### Data sheet

### 3RT6015-1AB01



Contactor AC 24 V 50/60 HZ AC3 3 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

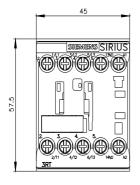
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.42 W
<ul> <li>without load current share typical</li> </ul>	1.05 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	18 A
— at ambient temperature 60 °C rated value	16 A
• at AC-3	

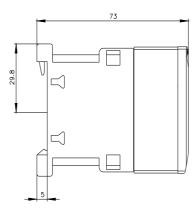
- at 400 V rate value     4.8 A       • at 600 V rate value     4.8 A       • at 600 V rate value     7.0       - at 600 V rate value     4.9 A       • at 600 V rate value     2.6 m <sup>-1</sup> • at 600 V rate value     2.5 m <sup>-1</sup> • at 60 ° C minimum permissible     2.5 m <sup>-1</sup> • at 60 ° C minimum permissible     2.5 m <sup>-1</sup> • at 60 ° C rate value     2.8 m <sup>-1</sup> • at 60 ° C rate value     1.8 A       • at 60 ° C rated value     1.8 A       • at 60 ° C rated value     1.8 A       • at 60 ° V rated value     1.8 A       • at 60 ° V rated value     1.8 KW       • at 60 ° V rated value     1.8 KW       • at 60 ° V rated value     1.8 KW       • at 60 ° V rated value     1.8 KW       • at 60 ° V rated value     1.8 KW       • at 60 ° V rated value     1.8 KW       • at 60 ° V rated value     1.8 KW       • at 60 ° V rated value     1.8 KW       • at 60 ° rated value     1.8 KW       • at 60 ° rated value     1.8 KW       • at 60 ° rated value     1.15 KW       • at 60 ° rat	at 400 V rated value	7 A
• - af AC-36     A       • - af 000 V table value     4.9 A       • - af 000 V table value     4.9 A       • - af 000 V table value     2.5 mm <sup>2</sup> • - af 000 V table value     2.5 mm <sup>2</sup> • - af 000 V table value     2.5 mm <sup>2</sup> • - af 000 V table value     1.6 A       • - af 000 V table value     0.5 kW       • - af 000 V table value     0.5 kW       af 200 V table value     1.5 kW       af 200 V table value     1.5 kW       af 200 V table value     3.8W       af 300 V table value     3.8W       af 300 V table value     1.15 kW       af 300 V table value     1.000 1h       af 300 V table value     1.000 1h	- at 400 V rated value	
		4.9 A
connectable conductor cress-section in main circuit at AC-1         2.5 mm²           • et 00 °C minimum permissible         2.5 mm²           operational current for approx. 20000 operating cycles at AC-4         2.6 A           • et 40 V ratio Value         2.6 A           • et 40 V ratio Value         2.6 A           • et 60 V ratio Value         1.6 A           operating power         6.8 KW           • et 320 V ratio Value         8.5 KW           • et 320 V ratio Value         1.6 KW           • et 320 V ratio Value         1.6 KW           • et 320 V ratio Value         1.5 KW           • et 320 V ratio Value         3.6 W           • et 320 V ratio Value         1.5 KW           • et 30 V ratio Value         1.5 KW <td></td> <td></td>		
•     •     0.00000000000000000000000000000000000		4.9 A
• e14 0.°C minimum promissible     2.5 mm <sup>2</sup> Control or approx. 20000 operating cycles at AC-4     2.8 A       • • • • • • • • • • • • • • • • • • •		
• at 40 °C intimum permissible2.6 mm²operational current for approx. 20000 operating cycles at 4.64 °C valed value3.6 A• at 800 V rated value1.8 Aoperating power1.8 A• at 200 V rated value6.3 kW- at 200 V rated value6.3 kW- at 200 V rated value6.3 kW- at 200 V rated value10.5 kW- at 400 V rated value10.5 kW- at 400 V rated value3.6 W- at 400 V rated value4.6 W- at 400 V rated value4.6 W- at 400 V rated value4.6 W- at 400 V rated value1.15 kW- at 400 V rated value0.000 f/h- at 400 V rated value0.000 f/h- at 400 V rated value0.000 f/h- at 60 hz0.000 f/h- at 60 hz0.000 f/h <td></td> <td>2.5 mm<sup>2</sup></td>		2.5 mm <sup>2</sup>
operating prover         2.6 A           • at 400 V rated value         2.6 A           • at 600 V rated value         1.8 A           operating power         -           • at 200 V rated value         6.8 kV           - at 200 V rated value         6.8 kV           - at 200 V rated value         6.8 kV           - at 200 V rated value         10.5 kW           - at 400 V rated value         10.5 kW           - at 400 V rated value         4.6W           - at 400 V rated value         1.15 kW           - at 400 V rated value         1.10 va		
AC-4	•	2.5 mm
• at 6900 V rated value     1.8 Å       opparating power     - at 200 V rated value     6.3 kW       - at 200 V rated value     6.3 kW       - at 200 V rated value     10.5 kW       - at 400 V at 60 °C rated value     10.5 kW       - at 200 V rated value     10.5 kW       - at 200 V rated value     10.5 kW       - at 600 V rated value     3 kW       - at 600 V rated value     1.5 kW       - at 600 V rated value     3 kW       - at 600 V rated value     1.5 kW       - at 600 V rated value     1.6 kW       - at 600 V rated value     1.6 kW       - at 600 V rated value     1.000 1/h       - at 60		
operating power         a.t.A.C-1           - at 230 V mted value         6.3 kW           - at 230 V mted value         6 kW           - at 230 V mted value         6 kW           - at 230 V mted value         6 kW           - at 230 V mted value         18 kW           - at 230 V mted value         18 kW           - at 230 V mted value         18 kW           - at 230 V mted value         3 kW           - at 400 V mted value         3 kW           - at 400 V mted value         3 kW           - at 630 V mted value         1.5 kW           - at 630 V mted value         1.15 kW           - at 630 V mted value         1.15 kW           - at 640 V mted value         1.15 kW           - at 600 fm         1.15 kW           - at 640 V mted value         1.15 kW           - at 640 V mted value         1.15 kW           - at 60 fm         1.15 kW           - at 60	• at 400 V rated value	2.6 A
• alt AC-1- alt 230 V rated value6.3 kW- alt 230 V rated value6.3 kW- alt 230 V rated value10.5 kW- alt 230 V rated value10.5 kW- alt 230 V rated value18 kW- alt 230 V rated value15 kW- alt 230 V rated value15 kW- alt 230 V rated value15 kW- alt 230 V rated value3 kW- alt 300 V rated value3 kW- alt 400 V rated value1.5 kW- alt 400 V rated value1.15 kW- alt 400 V rated value1.000 f/h- alt 400 V rated value2.000 f/h- alt 60 Hz1.000 f/h- alt 60 Hz2.000 f/h- alt 60 Hz0.81.1- alt 60 Hz0.81.1 <td>• at 690 V rated value</td> <td>1.8 A</td>	• at 690 V rated value	1.8 A
• alt AC-1• alt 230 V rated value6.3 kW- alt 230 V rated value6.3 kW- alt 230 V rated value10.5 kW- alt 230 V rated value10.5 kW- alt 230 V rated value1.5 kW- alt 230 V rated value1.5 kW- alt 230 V rated value3.60 V- alt 230 V rated value1.15 kW- alt 250 V rated value1.15 kW- alt 250 V rated value1.15 kW- alt 260 V rated value1.15 kW- alt 260 V rated value1.000 1/h- alt 261 maximum750 1/h- alt 261 maximum750 1/h- alt 261 read value24 V- alt 261 read value27 VA- alt 261 read value27 VA- alt 261 read value31.7 VAInductive power factor with closing power of the coil31.7 VAInductive power	operating power	
	— at 230 V rated value	6.3 kW
	— at 230 V at 60 °C rated value	6 kW
	— at 400 V at 60 °C rated value	10.5 kW
• at AC-3		
		1.5 kW
• al AC-3e         - al 400 V rated value         3 KW           - al 400 V rated value         4 KW           operating power for approx. 200000 operating cycles at AC-         4           • al 400 V rated value         1.15 KW           • al 600 V rated value         1.15 KW           • al 60 V rated value         1.15 KW           • al 60 V rated value         1.15 KW           • al 60 Az         0000 1/h           • al AC-4 maximum         750 1/h           • al AC-3 maximum         750 1/h           • al AC-4 maximum         260 1/h           Control circuit Control         Stype of voltage at AC           • al 60 Hz rated value         24 V           • al 60 Hz rated value         24 V           • al 60 Hz         0.8 1.1           • al 6		
		3 kW
operating power for approx. 200000 operating cycles at AC-4       1.15 kW         • at 400 V rated value       1.15 kW         • at 680 V rated value       1.15 kW         no-load switching frequency       0 000 1/h         • at AC       10 000 1/h         operating frequency       1000 1/h         • at AC-3 maximum       1000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       250 1/h         Control circuit/ Control       Ype of voltage of the control supply voltage         Ype of voltage of the control supply voltage at AC       at 50 Hz rated value         • at 60 Hz rated value       24 V         • at 60 Hz rated value       24 V         • at 60 Hz       0.8 1.1         • at 60 Hz		
4       the back of the ba		
• at 660 V rated value1.15 kWnol-ded switching frequency0000 1/h• at AC10000 1/hoperating frequency1000 1/h• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at 50 Hz rated value24 V• at 50 Hz rated value24 V• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz3.17 VAinductive power factor with closing power of the coil0.8• at 50 Hz0.81• at 60 Hz0.81• at 60 Hz4.2 VA• at 60 Hz0.81• at 60 Hz4.8 VAinductive power factor with the holding power of the coil0• at 60 Hz0.25• at 60 Hz0.25<		
no-load switching frequency• el A.C10 000 1/hoperating frequency1000 1/h• el A.C-1 maximum1 000 1/h• el A.C-3 maximum750 1/h• el A.C-3 maximum750 1/h• el A.C-3 maximum750 1/h• el A.C-4 maximum250 1/hControl exply voltage of the control supply voltageA.CControl supply voltage at A.C24 V• el 50 Hz rated value24 V• el 50 Hz rated value24 Voperating range factor control supply voltage rated value of magnet coil at A.C0.8 1.1• el 60 Hz0.85 1.1at 60 Hz0.85 1.1at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• el 60 Hz0.8• el 60 Hz0.25• el 60 Hz0	• at 400 V rated value	1.15 kW
• at AC10 000 1/hoperating frequency1000 1/h• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at BC 4 maximum24 V• at 60 Hz rated value24 V• at 60 Hz rated value24 V• at 60 Hz rated value0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.25 1.1• at 60 Hz	• at 690 V rated value	1.15 kW
• at AC10 000 1/hoperating frequency1000 1/h• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at BC 4 maximum24 V• at 60 Hz rated value24 V• at 60 Hz rated value24 V• at 60 Hz rated value0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.25 1.1• at 60 Hz	no-load switching frequency	
• at AC-1 maximum1 000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageACcontrol supply voltage at AC24 V• at 60 Hz rated value24 Voperating range factor control supply voltage rated value of magnet coll at AC0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.85 1.1• at 60 Hz31.7 VAinductive power of magnet coll at AC0.81• at 60 Hz0.81• at 60 Hz0.25• at 60 Hz0• at 60 Hz0.25• at 60 Hz0• at 60 Hz0.25• at 60 Hz0.25<		10 000 1/h
• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Control750 1/hControl circuit/ Control250 1/hControl supply voltage of the control supply voltageAC• at 50 Hz rated value24 V• at 60 Hz rated value24 V• operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8• at 60 Hz0.25• at 6	operating frequency	
• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circult/ Controltype of voltage of the control supply voltageACcontrol supply voltage at AC• at 50 Hz rated value24 V• at 60 Hz rated value24 V• at 50 Hz0.8 1.1• at 60 Hz0.25 1.1• at	• at AC-1 maximum	1 000 1/h
• at AC-4 maximum250 1/hControl circuit/ ControlAC• at 50 Hz rated valueAC• at 50 Hz rated value24 V• at 60 Hz rated value24 V• at 60 Hz rated value0.8 1.1• at 60 Hz0.8 1.1• at 50 Hz0.8 1.1• at 50 Hz0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz31.7 VA• at 60 Hz0.8 1.1• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0• at 60 Hz0• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0• at 60 H	● at AC-3 maximum	750 1/h
Control circuit/ Control         type of voltage of the control supply voltage       AC         control supply voltage at AC       24 V         • at 50 Hz rated value       24 V         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       27 VA         • at 50 Hz       0.8         • at 50 Hz       0.8         • at 50 Hz       0.8         • at 60 Hz       31.7 VA         inductive power factor with closing power of the coil       0.8         • at 50 Hz       0.8         • at 60 Hz       0.8         inductive power of magnet coil at AC       4.2 VA         • at 60 Hz       0.25	• at AC-3e maximum	750 1/h
type of voltage of the control supply voltage         AC           control supply voltage at AC         24 V           • at 50 Hz rated value         24 V           • at 60 Hz rated value         24 V           • at 50 Hz rated value         24 V           • at 50 Hz         0.8 1.1           • at 50 Hz         0.8 1.1           • at 50 Hz         0.85 1.1           apparent pick-up power of magnet coil at AC         27 VA           • at 60 Hz         31.7 VA           inductive power factor with closing power of the coil         0.8           • at 60 Hz         0.25	• at AC-4 maximum	250 1/h
Control supply voltage at AC• at 50 Hz rated value24 V• at 60 Hz rated value24 V• at 60 Hz rated value24 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 50 Hz0.81• at 60 Hz0.81apparent holding power of magnet coil at AC0.81• at 60 Hz0.81• at 60 Hz0.81• at 60 Hz0.81• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0	Control circuit/ Control	
Control supply voltage at AC• at 50 Hz rated value24 V• at 60 Hz rated value24 V• at 60 Hz rated value24 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 50 Hz0.81• at 60 Hz0.81apparent holding power of magnet coil at AC0.81• at 60 Hz0.81• at 60 Hz0.81• at 60 Hz0.81• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0	type of voltage of the control supply voltage	AC
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• at 80 Hz rated value24 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1apparent pick-up power of magnet coil at AC27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 60 Hz0.81• at 60 Hz0.81apparent holding power of magnet coil at AC0.8• at 60 Hz0.81apparent holding power of magnet coil at AC0.81• at 60 Hz0.81apparent holding power of magnet coil at AC4.2 VA• at 60 Hz0.25• at 60 Hz0.25		24 V
operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC27 VA• at 50 Hz27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 60 Hz0.8• at 60 Hz0.25• at 60 Hz0.25<		
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• at 60 Hz31.7 VAinductive power factor with closing power of the coil		27.1/A
inductive power factor with closing power of the coil0.8• at 50 Hz0.8• at 60 Hz0.81apparent holding power of magnet coil at AC4.2 VA• at 50 Hz4.2 VA• at 60 Hz4.8 VAinductive power factor with the holding power of the coil0.25• at 50 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25		
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• at 60 Hz0.81apparent holding power of magnet coil at AC		0.0
apparent holding power of magnet coil at AC       4.2 VA         • at 50 Hz       4.2 VA         • at 60 Hz       4.8 VA         inductive power factor with the holding power of the coil       0.25         • at 60 Hz       0.25		
• at 50 Hz       4.2 VA         • at 60 Hz       4.8 VA         inductive power factor with the holding power of the coil       0.25         • at 50 Hz       0.25         • at 60 Hz       0.25         • at 60 Hz       0.25         • at 60 Hz       0.25		0.01
• at 60 Hz     4.8 VA       inductive power factor with the holding power of the coil     0.25       • at 50 Hz     0.25       • at 60 Hz     0.25       • at 60 Hz     0.25		4.0.1/4
inductive power factor with the holding power of the coil     0.25       • at 50 Hz     0.25       • at 60 Hz     0.25       Auxiliary circuit     0       number of NC contacts for auxiliary contacts instantaneous contact     0		
• at 50 Hz       0.25         • at 60 Hz       0.25         Auxiliary circuit       0.25         number of NC contacts for auxiliary contacts instantaneous contact       0		4.0 VA
• at 60 Hz     0.25       Auxiliary circuit     0       number of NC contacts for auxiliary contacts instantaneous contact     0		0.05
Auxiliary circuit       number of NC contacts for auxiliary contacts instantaneous contact     0		
number of NC contacts for auxiliary contacts instantaneous     0		0.25
contact		
number of NO contacts for auxiliary contacts instantaneous 1		0
	number of NO contacts for auxiliary contacts instantaneous	1

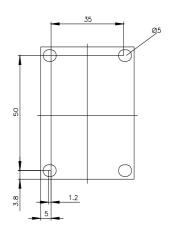
contact			
operational current at	AC-12 maximum		10 A
operational current a			
• at 230 V rated	value		10 A
• at 400 V rated	value		3 A
• at 690 V rated	value		1A
operational current			
<ul> <li>at 24 V rated value</li> </ul>			6 A
• at 110 V rated			3 A
<ul> <li>at 220 V rated</li> </ul>			1A
operational current			
<ul> <li>at 24 V rated value</li> </ul>			6 A
• at 110 V rated	value		1A
• at 220 V rated	value		0.3 A
contact reliability of			1 faulty switching per 100 million (17 V, 1 mA)
L/CSA ratings			
-	erformance [hp] for 3-phase AC	motor at	3 hp
460/480 V rated value		motor at	onp
hort-circuit protectio	on		
design of the fuse li	nk		
<b>U</b>	protection of the main circuit		
— with type	of coordination 1 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type	of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
	protection of the auxiliary switc	h required	fuse gL/gG: 10 A
nstallation/ mounting			
mounting position			+/-180° rotation possible on vertical mounting surface; can be tilted forward an backward by +/- 22.5° on vertical mounting surface
<ul> <li>fastening metl</li> </ul>	hod		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>fastening meth</li> </ul>	od side-by-side mounting		Yes
height			57.5 mm
width			45 mm
depth			73 mm
•	side-by-side mounting at the side	de	0 mm
connections/ Termina	, ,		
type of electrical cor			
<ul> <li>for main curren</li> </ul>			screw-type terminals
<ul> <li>for auxiliary and</li> </ul>			screw-type terminals
	onductor cross-sections for mai	n contacts	
		II contacto	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
solid or stranded			2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> )
<ul> <li>finely stranded</li> </ul>			
• finely stranded type of connectable	conductor cross-sections		
<ul> <li>finely stranded</li> <li>type of connectable</li> <li>for auxiliary cor</li> </ul>	conductor cross-sections		
finely stranded  type of connectable      for auxiliary con          — solid or st	conductor cross-sections ntacts randed		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded      type of connectable         ofor auxiliary con             — solid or st             — finely stra	conductor cross-sections ntacts randed nded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded</li> <li>type of connectable</li> <li>for auxiliary cor</li> <li>— solid or st</li> <li>— finely stra</li> <li>for AWG cables</li> </ul>	conductor cross-sections ntacts randed		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded      type of connectable <ul> <li>for auxiliary cor</li> <li>solid or st</li> <li>finely stra</li> <li>for AWG cables</li> </ul> <li>Electrical Safety</li>	conductor cross-sections ntacts randed nded with core end processing s for auxiliary contacts	20200	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12
finely stranded  type of connectable     o for auxiliary con         — solid or st         — finely stra         for AWG cables  Electrical Safety protection class IP c	conductor cross-sections ntacts randed nded with core end processing s for auxiliary contacts on the front according to IEC (		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 IP20
<ul> <li>finely stranded</li> <li>type of connectable</li> <li>for auxiliary cor</li> <li>solid or st</li> <li>finely stra</li> <li>for AWG cables</li> <li>Electrical Safety</li> <li>protection class IP of</li> <li>touch protection on</li> </ul>	conductor cross-sections ntacts randed nded with core end processing s for auxiliary contacts on the front according to IEC 60 the front according to IEC 60		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12
<ul> <li>finely stranded</li> <li>type of connectable</li> <li>for auxiliary cor</li> <li>solid or st</li> <li>finely stra</li> <li>for AWG cables</li> <li>Electrical Safety</li> <li>protection class IP of</li> <li>touch protection on</li> </ul>	conductor cross-sections ntacts randed nded with core end processing s for auxiliary contacts on the front according to IEC 60 the front according to IEC 60		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 IP20
<ul> <li>finely stranded</li> <li>type of connectable</li> <li>for auxiliary cor</li> <li>solid or st</li> <li>finely stra</li> <li>for AWG cables</li> <li>Electrical Safety</li> <li>protection class IP of</li> <li>touch protection on</li> </ul>	conductor cross-sections ntacts randed nded with core end processing s for auxiliary contacts on the front according to IEC 60 the front according to IEC 60		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 IP20
finely stranded      type of connectable <ul> <li>for auxiliary cor</li> <li>solid or st</li> <li>finely stra</li> <li>for AWG cables</li> </ul> <li>Electrical Safety         <ul> <li>protection class IP of touch protection on</li> <li>Approvals Certificates</li> </ul> </li>	conductor cross-sections ntacts randed nded with core end processing s for auxiliary contacts on the front according to IEC 60 the front according to IEC 60		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 IP20
finely stranded      type of connectable <ul> <li>for auxiliary cor</li> <li>solid or st</li> <li>finely stra</li> <li>for AWG cables</li> </ul> <li>Electrical Safety         <ul> <li>protection class IP of touch protection on</li> <li>Approvals Certificates</li> </ul> </li>	conductor cross-sections ntacts randed nded with core end processing s for auxiliary contacts on the front according to IEC 60 the front according to IEC 60		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14), 2x 12 IP20 finger-safe, for vertical contact from the front
finely stranded      type of connectable <ul> <li>for auxiliary cor</li> <li>solid or st</li> <li>finely stra</li> <li>for AWG cables</li> </ul> <li>Electrical Safety         <ul> <li>protection class IP of touch protection on</li> <li>pprovals Certificates</li> </ul> </li>	conductor cross-sections ntacts randed nded with core end processing s for auxiliary contacts on the front according to IEC 60 the front according to IEC 60	529 CE	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14), 2x 12 IP20 finger-safe, for vertical contact from the front

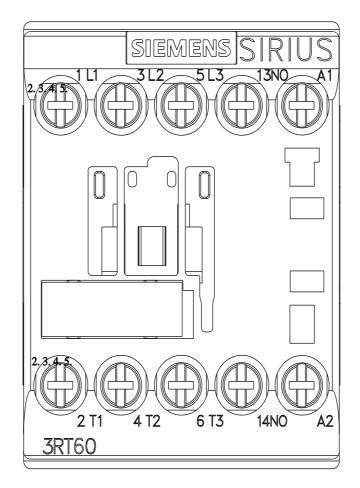


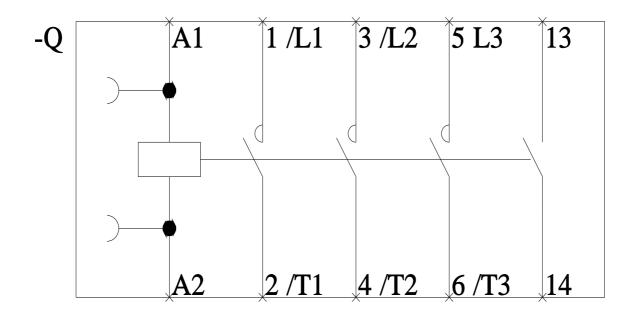
Further information











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#### Data sheet

### 3RT6015-1AN22



Contactor AC 220 V 50/60 HZ AC3 3 kW 400 V AUX contacts: 1 NC 3-pole, size S00 screw terminal

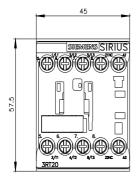
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.42 W
<ul> <li>without load current share typical</li> </ul>	1.05 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
● at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	18 A
- at ambient temperature 60 °C rated value	16 A
• at AC-3	

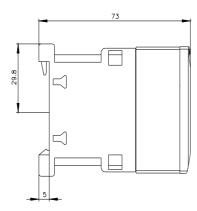
— at 400 V rated value	7 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 690 V rated value	4.9 A
connectable conductor cross-section in main circuit at AC-	
1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	2.5 mm <sup>2</sup>
<ul> <li>at 40 °C minimum permissible</li> </ul>	2.5 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operating power	
• at AC-1	
— at 230 V rated value	6.3 kW
— at 230 V at 60 °C rated value	6 kW
— at 400 V at 60 °C rated value	10.5 kW
- at 690 V at 60 °C rated value	
	18 kW
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC- 4	
• at 400 V rated value	1.15 kW
• at 690 V rated value	1.15 kW
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	200 1/11
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	222.17
• at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
at 60 Hz apparent pick-up power of magnet coil at AC	
apparent pick-up power of magnet coil at AC	0.85 1.1
apparent pick-up power of magnet coil at AC • at 50 Hz	0.85 1.1 27 VA
<ul> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	0.85 1.1 27 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil	0.85 1.1 27 VA 31.7 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz	0.85 1.1 27 VA 31.7 VA 0.8
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	0.85 1.1 27 VA 31.7 VA 0.8
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC	0.85 1.1 27 VA 31.7 VA 0.8 0.81
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz	0.85 1.1 27 VA 31.7 VA 0.8 0.81 4.2 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil	0.85 1.1 27 VA 31.7 VA 0.8 0.81 4.2 VA 4.8 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz	0.85 1.1 27 VA 31.7 VA 0.8 0.81 4.2 VA 4.8 VA 0.25
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	0.85 1.1 27 VA 31.7 VA 0.8 0.81 4.2 VA 4.8 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz	0.85 1.1 27 VA 31.7 VA 0.8 0.81 4.2 VA 4.8 VA 0.25
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz	0.85 1.1 27 VA 31.7 VA 0.8 0.81 4.2 VA 4.8 VA 0.25 0.25

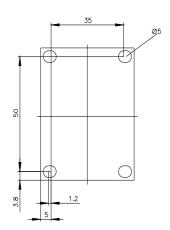
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 690 V rated value</li> </ul>	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	6 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
L/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor a 460/480 V rated value	at 3 hp
hort-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
<ul> <li>for short-circuit protection of the auxiliary switch requir</li> </ul>	
stallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward ar
mounting position	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	57.5 mm
width	45 mm
depth	73 mm
required spacing with side-by-side mounting at the side	0 mm
onnections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections for main conta-	
solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
type of connectable conductor cross-sections	
for auxiliary contacts	
solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm <sup>-</sup> ), 2x (0.75 2.5 mm <sup>-</sup> ) 2x (20 16), 2x (18 14), 2x 12
Electrical Safety	LA (LO 10), LA (10 14), LA 12
•	IP20
protection class IP on the front according to IEC 60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
General Product Approval	
(%)	EG-Konf. UL LILL
con ccc	
can ccc	

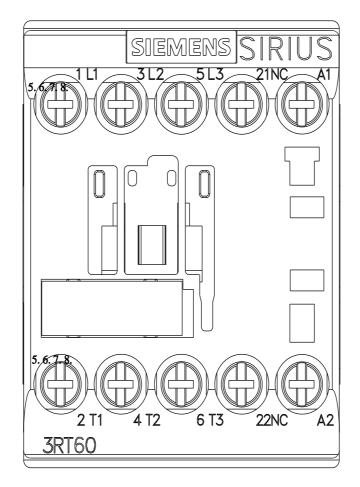


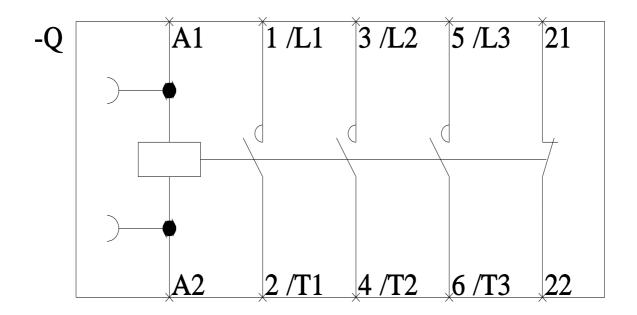
Further information











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### Data sheet

### 3RT6015-1BB41

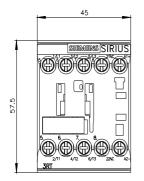


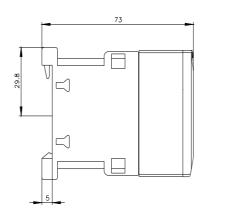
Contactor DC 24 V AC3 3 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

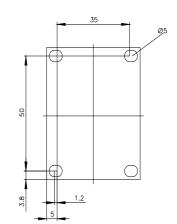
product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT6			
General technical data				
size of contactor	S00			
product extension auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.42 W			
<ul> <li>without load current share typical</li> </ul>	4 W			
type of calculation of power loss depending on pole	quadratic			
insulation voltage rated value	690 V			
degree of pollution	3			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V			
shock resistance at rectangular impulse				
• at DC	6,7g / 5 ms, 4,2g / 10 ms			
shock resistance with sine pulse				
• at DC	10,5g / 5 ms, 6,6g / 10 ms			
mechanical service life (operating cycles)				
<ul> <li>of contactor typical</li> </ul>	30 000 000			
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000			
Substance Prohibitance (Date)	05/01/2012			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
<ul> <li>during operation</li> </ul>	-25 +60 °C			
during storage	-55 +80 °C			
Main circuit				
number of poles for main current circuit	3			
number of NO contacts for main contacts	3			
number of NC contacts for main contacts	0			
operating voltage				
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V			
• at AC-3e rated value maximum	690 V			
operational current				
• at AC-1 up to 690 V				
- at ambient temperature 40 °C rated value	18 A			
- at ambient temperature 60 °C rated value	16 A			
• at AC-3				

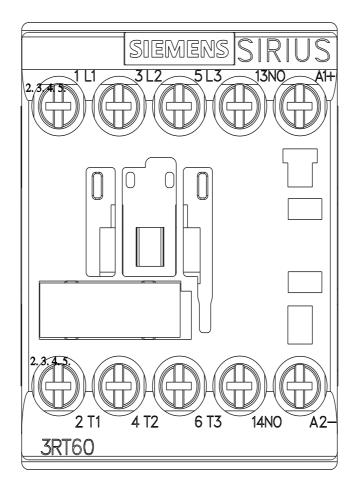
— at 400 V rated value	7 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 690 V rated value	4.9 A
connectable conductor cross-section in main circuit at AC- 1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	2.5 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
<ul> <li>at 400 V rated value</li> </ul>	2.6 A
<ul> <li>at 690 V rated value</li> </ul>	1.8 A
operating power	
• at AC-1	
— at 230 V rated value	6.3 kW
— at 230 V at 60 °C rated value	6 kW
— at 400 V at 60 °C rated value	10.5 kW
— at 690 V at 60 °C rated value	18 kW
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
no-load switching frequency	1.10 KW
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	0
contact number of NO contacts for auxiliary contacts instantaneous	1
contact operational current at AC-12 maximum	10 A
operational current at AC-12 maximum	
at 230 V rated value	10 A
at 200 V rated value     at 400 V rated value	3 A
at 400 V rated value     at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	6 A
at 110 V rated value	3A
at 220 V rated value	1A
operational current at DC-13 • at 24 V rated value	6 A
at 24 V rated value     at 110 V rated value	6 A 1 A
	0.3 A
at 220 V rated value     contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
OLICSA fattings	

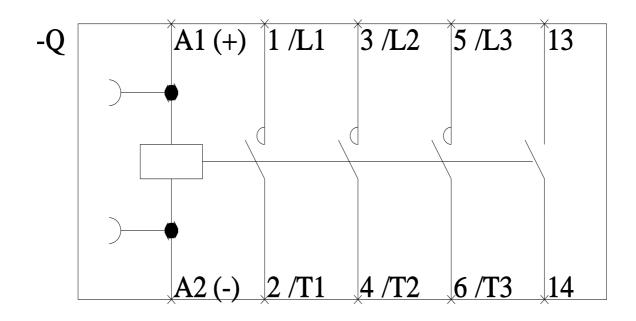
— with type of co — with type of as	tection of the main circu pordination 1 required ssignment 2 required		3 hp		_	_
design of the fuse link • for short-circuit prof — with type of co — with type of as • for short-circuit prof	oordination 1 required	it				
<ul> <li>for short-circuit prof         <ul> <li>with type of community</li> <li>with type of as</li> <li>for short-circuit prof</li> </ul> </li> </ul>	oordination 1 required	it				
<ul> <li>with type of comparison</li> <li>with type of as</li> <li>for short-circuit protection</li> </ul>	oordination 1 required	it				
<ul> <li>— with type of as</li> <li>● for short-circuit prof</li> </ul>	ssignment 2 required					
for short-circuit prof	•		gL/gG	LV HRC 3NA, DIAZED 5SE	3, NEOZED 5SE: 35 A	
· ·			gL/gG	LV HRC 3NA, DIAZED 5SE	3, NEOZED 5SE: 20 A	
notallation/mounting/dir	tection of the auxiliary s	witch required	fuse g	L/gG: 10 A		
istaliation/ mounting/ ull	nensions					
mounting position				)° rotation possible on vertica /ard by +/- 22.5° on vertical r		be tilted forward and
<ul> <li>fastening method</li> </ul>			screw	and snap-on mounting onto	35 mm DIN rail accordi	ng to DIN EN 50022
<ul> <li>fastening method s</li> </ul>	ide-by-side mounting		Yes			•
height			57.5 r	nm		
width			45 mr	n		
depth			73 mr	n		
required spacing with side	e-by-side mounting at th	e side	0 mm			
Connections/ Terminals						
type of electrical connect	ction					
<ul> <li>for main current cire</li> </ul>	cuit		screw	-type terminals		
<ul> <li>for auxiliary and contract</li> </ul>	ntrol circuit		screw	-type terminals		
type of connectable condu	uctor cross-sections for	main contacts				
<ul> <li>solid or stranded</li> </ul>			2x (0,	5 1,5 mm²), 2x (0,75 2,5	5 mm²), 2x 4 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.	5 1.5 mm²), 2x (0.75 2.5	5 mm²)		
type of connectable con	ductor cross-sections	5				
<ul> <li>for auxiliary contact</li> </ul>	ts					
<ul> <li>— solid or strand</li> </ul>	led		2x (0.	5 1.5 mm²), 2x (0.75 2.8	5 mm²), 2x 4 mm²	
- finely stranded	d with core end process	ing	2x (0.	5 1.5 mm²), 2x (0.75 2.8	5 mm²)	
<ul> <li>for AWG cables for</li> </ul>	auxiliary contacts		2x (20	) 16), 2x (18 14), 2x 12		
Electrical Safety						
protection class IP on th	e front according to I	EC 60529	IP20			
touch protection on the	front according to IEC	60529	finger	-safe, for vertical contact from	m the front	
Approvals Certificates						
General Product Approv	val					
S.	CE EG-Konf.	<u>Confirmation</u>	n		Ű	EAC
EMV	other	Dangerous Go	od	Environment		
	Confirmation	Transport Inform	<u>nation</u>	Environmental Con- firmations		











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#### Data sheet

### 3RT6015-1BB42



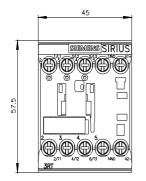
Contactor DC 24 V AC3 3 kW 400 V AUX contacts: 1 NC 3-pole, size S00 screw terminal

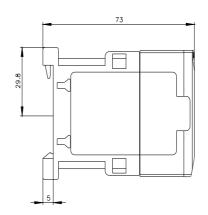
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.42 W
<ul> <li>without load current share typical</li> </ul>	4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	18 A
— at ambient temperature 60 °C rated value	16 A
• at AC-3	

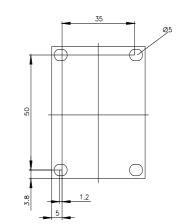
— at 400 V rated value	7 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 690 V rated value	4.9 A
connectable conductor cross-section in main circuit at AC- 1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
at 40 °C minimum permissible	2.5 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	2.0 mm
AC-4	
• at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operating power	
• at AC-1	
— at 230 V rated value	6.3 kW
— at 230 V at 60 °C rated value	6 kW
— at 400 V at 60 °C rated value	10.5 kW
— at 690 V at 60 °C rated value	18 kW
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
● at AC-3e	
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	1.15 kW
• at 690 V rated value	1.15 kW
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	
•	24 V
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	6 A
• at 110 V rated value	3 A
at 220 V rated value	1A
operational current at DC-13	
at 24 V rated value	6 A
• at 110 V rated value	1A
at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
contact renability of auxiliary contacts	radity switching per roo minion (17 v, 1 mA)

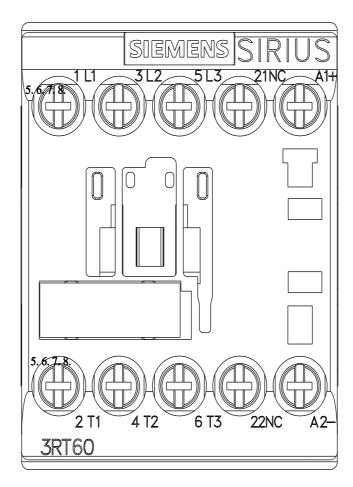
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value		3 hp
hort-circuit pro	tection	
design of the fu	use link	
<ul> <li>for short-optimized</li> </ul>	circuit protection of the main circuit	
— with	type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with	type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
<ul> <li>for short-optimized</li> </ul>	circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
nstallation/ mou	Inting/ dimensions	
mounting posit	tion	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening meth	od	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>side-by-si</li> </ul>	ide mounting	Yes
height		57.5 mm
width		45 mm
depth		73 mm
required spacing	g with side-by-side mounting at the side	0 mm
onnections/ Te	rminals	
type of electric	al connection	
<ul> <li>for main c</li> </ul>	current circuit	screw-type terminals
<ul> <li>for auxilia</li> </ul>	ary and control circuit	screw-type terminals
type of connecta	able conductor cross-sections for main contacts	
<ul> <li>solid or st</li> </ul>	tranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connect	table conductor cross-sections	
<ul> <li>for auxilia</li> </ul>	ary contacts	
— solic	d or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
	ly stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG</li> </ul>	cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
Electrical Safety	/	
protection clas	s IP on the front according to IEC 60529	IP20
touch protectio	on on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certifi	icates	
General Produ	ct Approval	
(SP)	Confirmation	1 <b>A1 (n) (20)</b>
CSA	EG-Konf	
EMV	Marine / Shipping other	Dangerous Good Environment
A	CCS (China Classifica- tion Society)	tion Transport Information Environmental Con- firmations
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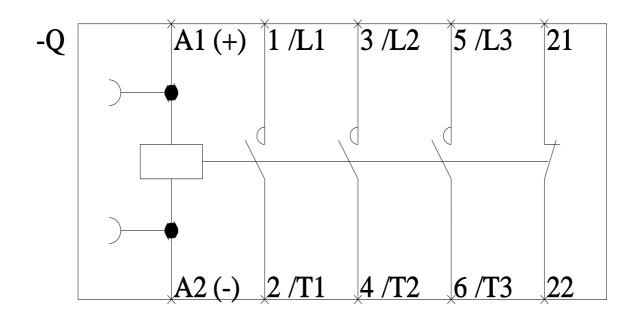








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7/14/2023 🖸

### Data sheet

### 3RT6016-1AB01



Contactor AC 24 V 50/60 HZ AC3 4 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

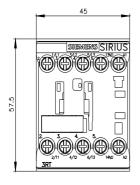
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.7 W
<ul> <li>without load current share typical</li> </ul>	1.05 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	22 A
— at ambient temperature 60 °C rated value	20 A
• at AC-3	

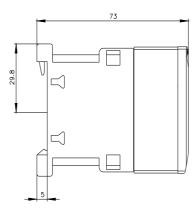
— at 400 V rated value	9 A
— at 400 V rated value	6.7 A
• at AC-3e	0.1 A
- at 400 V rated value	9 A
— at 400 V rated value	6.7 A
connectable conductor cross-section in main circuit at AC-	0.7 A
1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
	3.3 A
at 690 V rated value	5.5 A
operating power • at AC-1	
- at 230 V rated value	7.5 kW
— at 230 V fated value — at 230 V at 60 °C rated value	7.5 kW
- at 400 V at 60 °C rated value	13 kW
- at 690 V at 60 °C rated value	22 kW
• at AC-3	2.2 1/1/1
- at 230 V rated value	2.2 kW
- at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC- 4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	31.7 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	4.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 50 Hz • at 60 Hz	0.25
• at 60 Hz	0.25 0.25
at 60 Hz     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous	
• at 60 Hz Auxiliary circuit	0.25

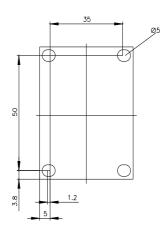
contact					
operational current at A	AC-12 maximum		10 A		
operational current at			1077		
at 230 V rated v			10 A		
<ul> <li>at 400 V rated value</li> </ul>			3 A		
<ul> <li>at 690 V rated value</li> </ul>			1 A		
operational current at					
<ul> <li>at 24 V rated val</li> </ul>			6 A		
<ul> <li>at 110 V rated value</li> </ul>			3 A		
<ul> <li>at 220 V rated value</li> </ul>	alue		1 A		
operational current a	t DC-13				
<ul> <li>at 24 V rated val</li> </ul>			6 A		
<ul> <li>at 110 V rated value</li> </ul>	alue		1 A		
<ul> <li>at 220 V rated value</li> </ul>	alue		0.3 A		
contact reliability of a	auxiliary contacts		1 faulty switching per 100 m	illion (17 V, 1 mA)	
JL/CSA ratings	,		5191		
	rformance [hp] for 3-pha	ase AC motor at	5 hp		
460/480 V rated value					
Short-circuit protection	n				
design of the fuse lin	k				
<ul> <li>for short-circuit p</li> </ul>	protection of the main ci	rcuit			
— with type o	of coordination 1 require	d	gL/gG LV HRC 3NA, DIAZE		
— with type o	of assignment 2 required	1	gL/gG LV HRC 3NA, DIAZE	ED 5SB, NEOZED 5SE: 20	A
<ul> <li>for short-circuit p</li> </ul>	protection of the auxiliar	y switch required	fuse gL/gG: 10 A		
nstallation/ mounting/	dimensions				
mounting position			+/-180° rotation possible on backward by +/- 22.5° on ve		can be tilted forward an
<ul> <li>fastening meth</li> </ul>	od		screw and snap-on mountin	ıg onto 35 mm DIN rail acc	ording to DIN EN 50022
<ul> <li>fastening metho</li> </ul>	d side-by-side mounting	3	Yes		
height			57.5 mm		
width			45 mm		
depth			73 mm		
required spacing with s	side-by-side mounting a	t the side	0 mm		
onnections/ Terminal	S				
type of electrical con	nection				
<ul> <li>for main current</li> </ul>	circuit		screw-type terminals		
<ul> <li>for auxiliary and</li> </ul>	control circuit		screw-type terminals		
type of connectable co	nductor cross-sections	for main contacts			
<ul> <li>solid or stranded</li> </ul>	b		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
<ul> <li>finely stranded v</li> </ul>	with core end processing	g	2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²)	
type of connectable of	conductor cross-section	ons			
<ul> <li>for auxiliary cont</li> </ul>	tacts				
— solid or stranded		2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²), 2x 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²)		
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14),	2x 12		
Electrical Safety					
protection class IP or	n the front according t	o IEC 60529	IP20		
touch protection on the front according to IEC 60529		finger-safe, for vertical conta	act from the front		
Approvals Certificates					
General Product App	proval				
	(m)	Confirmation	۰ CE	(l)	FAC
() E			EG-Konf.	UL	

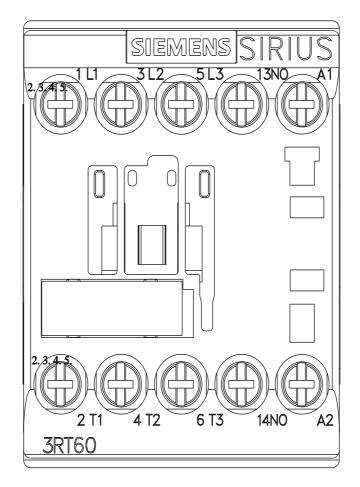


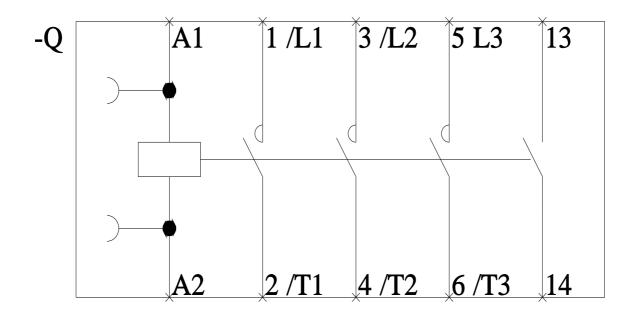
Further information











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### Data sheet

### 3RT6016-1AN21



Contactor AC 220 V 50/60 HZ AC3 4 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

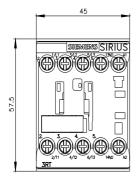
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.7 W
<ul> <li>without load current share typical</li> </ul>	1.05 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
of the contactor with added auxiliary switch block typical	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	22 A
- at ambient temperature 60 °C rated value	20 A
• at AC-3	

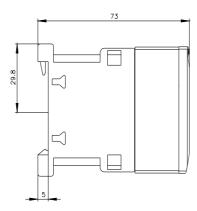
— at 400 V rated value	9 A
— at 400 V rated value	6.7 A
• at AC-3e	
- at 400 V rated value	9 A
— at 400 V rated value	6.7 A
connectable conductor cross-section in main circuit at AC-	0.7 A
1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operating power	
● at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
<ul> <li>at 690 V rated value</li> </ul>	2.5 kW
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	1 000 1/h
<ul> <li>at AC-3 maximum</li> </ul>	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	31.7 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	4.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contrate for cuviliant contrate instanteneous	1
number of NO contacts for auxiliary contacts instantaneous	•

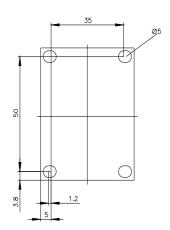
contact					
operational curren	t at AC-12 maximum		10 A		
operational curre					
• at 230 V rat	ed value		10 A		
• at 400 V rat	ed value		3 A		
• at 690 V rat	ed value		1 A		
operational curre					
<ul> <li>at 24 V rate</li> </ul>			6 A		
<ul> <li>at 110 V rat</li> </ul>	ed value		3 A		
• at 220 V rat	ed value		1 A		
operational curre	ent at DC-13				
• at 24 V rate	d value		6 A		
<ul> <li>at 110 V rat</li> </ul>	ed value		1 A		
• at 220 V rat	ed value		0.3 A		
contact reliability	of auxiliary contacts		1 faulty switching per 100 millio	on (17 V, 1 mA)	
JL/CSA ratings			, , , , , , , , , , , , , , , , , , , ,		
	al performance [hp] for 3-ph	ase AC motor at	5 hp		
460/480 V rated va	alue				
hort-circuit prote	ction				
design of the fus	e link				
<ul> <li>for short-cire</li> </ul>	cuit protection of the main c	vircuit			
— with ty	pe of coordination 1 require	ed	gL/gG LV HRC 3NA, DIAZED \$	5SB, NEOZED 5SE: 35 A	A
— with ty	pe of assignment 2 required	d	gL/gG LV HRC 3NA, DIAZED \$	5SB, NEOZED 5SE: 20 A	A
<ul> <li>for short-cire</li> </ul>	cuit protection of the auxilia	ry switch required	fuse gL/gG: 10 A		
nstallation/ mount	ing/ dimensions				
mounting positio	'n		+/-180° rotation possible on ve backward by +/- 22.5° on vertic		an be tilted forward an
<ul> <li>fastening n</li> </ul>	nethod		screw and snap-on mounting o	onto 35 mm DIN rail acco	rding to DIN EN 50022
•	iethod side-by-side mountin	a	Yes		
height		9	57.5 mm		
width			45 mm		
depth			73 mm		
•	with side-by-side mounting a	at the side	0 mm		
Connections/ Term	, ,				
type of electrical					
<ul> <li>for main cur</li> </ul>			screw-type terminals		
	and control circuit		screw-type terminals		
	le conductor cross-sections	for main contacts	screw-type terminals		
<ul> <li>solid or stra</li> </ul>		Ior main contacts	2x (0,5 1,5 mm²), 2x (0,75	$2.5 \text{ mm}^2$ $2 \text{ v} 4 \text{ mm}^2$	
			2x (0,5 1,5 mm²), 2x (0,75 2x (0.5 1.5 mm²), 2x (0.75	· · · · · · · · · · · · · · · · · · ·	
-	ded with core end processin ble conductor cross-secti	-	2X (0.5 1.5 mm ), 2X (0.75	. 2.5 mm )	
		0115			
<ul> <li>for auxiliary</li> </ul>			$2x (0 E = 1 E mm^2) 2x (0 Z E$	$2 E mm^2$ $2 \times 4 mm^2$	
— solid or stranded		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75			
— finely stranded with core end processing		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
for AWG cables for auxiliary contacts		2x (20 16), 2x (18 14), 2x	12		
Electrical Safety	ID on the front coccuting		1020		
-	IP on the front according		IP20	from the front	
•	on the front according to	IEC 60529	finger-safe, for vertical contact	from the from	
Approvals Certifica					
General Product	Approval				
SP M		CE EG-Konf.	Confirmation		EAC
EMV	other	Environment			

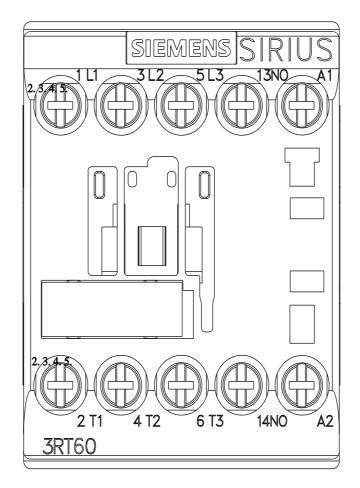


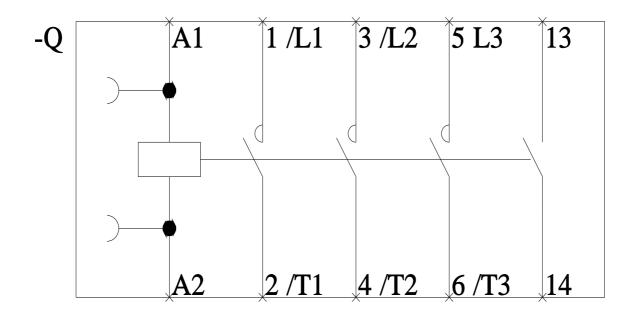
Further information











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#### Data sheet

### 3RT6016-1AN22



Contactor AC 220 V 50/60 HZ AC3 4 kW 400 V AUX contacts: 1 NC 3-pole, size S00 screw terminal

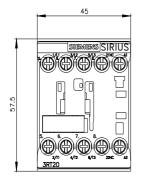
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.7 W
<ul> <li>without load current share typical</li> </ul>	1.05 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
• of the contactor with added auxiliary switch block typical	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	22 A
- at ambient temperature 60 °C rated value	20 A
• at AC-3	

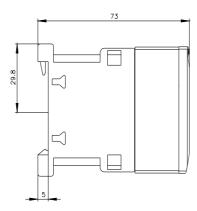
+ al AC-3aA A A A A A A B A A B A B A B A B<	— at 400 V rated value	9 A
	— at 690 V rated value	6.7 A
	• at AC-3e	
constrained periods         2.5 mm²	— at 400 V rated value	9 A
12.5 mm² 4 mm²•••••••••••••••••••••••••••••••••••	— at 690 V rated value	6.7 A
4 50 °C minimum permissible2 5 mm²operational current for approx. 20000 operating cycles at AC-44 1.A•••••••••••••••••••••••••••••••••••	connectable conductor cross-section in main circuit at AC-	
• at 0 °C minimum permissible         4 mm²           operational current for approx. 200000 operating cycles at • at 00° / rated value         3.3 A           • at 00° / rated value         3.3 A           • at 00° / rated value         3.3 A           • at 00° / rated value         7.5 W           - at 230 V rated value         2.5 W           - at 230 V rated value         2.8 W           - at 430 V rated value         2.8 W           - at 430 V rated value         2.8 W           - at 430 V rated value         4.8 W           - at 430 V rated value         4.8 W           - at 400 V rated value         4.8 W           - at 400 V rated value         2.8 W		
spectral current for approx. 20000 operating cycles at 4 400 V rated value         4.1 A           a 400 V rated value         3.3 A           operating power         -           - at 220 V rated value         7.5 kW           - at 220 V rated value         2.2 kW           - at 420 V rated value         2.2 kW           - at 420 V rated value         4.6 kW           - at 420 V rated value         4.6 kW           - at 400 V rated value         5.6 kW           - at 400 V rated value         5.6 kW           - at 400 V rated value         2.2 kW           - at 400 V rated value         5.6 kW           - at 400 V rated value         2.6 kW           - at 600 V rated value         6.6 kW           - at 600 V rated value         6.6 kW	<ul> <li>at 60 °C minimum permissible</li> </ul>	2.5 mm <sup>2</sup>
AC-4	· · · · · · · · · · · · · · · · · · ·	4 mm <sup>2</sup>
• at 860 / rated value3.3 Åoperating power at 250 / rated value7.5 kW- at 250 / rated value7.5 kW- at 800 / at 60 ° Crated value13 kW- at 800 / rated value2.2 kW- at 800 / rated value5.5 kW- at 800 / rated value5.5 kW- at 800 / rated value5.5 kW- at 800 / rated value4.6 kW- at 800 / rated value5.5 kW- at 800 / rated value2.2 kW- at 800 / rated value2.5 kW- at 800 / rated value5.5 kW- at 800 / rated value2.5 kW- at 800 / rated value3.6 km- at 800 / rated value3.6 km		
operating power         -           • at AC-1         -           -         at 230 V rated value         7.5 kW           -         at 230 V rated value         7.5 kW           -         at 230 V rated value         7.5 kW           -         at 800 V at 60 °C rated value         22 kW           -         at 230 V rated value         22 kW           -         at 230 V rated value         4 kW           -         at 400 V rated value         4 kW           -         at 600 V rated value         2 kW           -         at 400 V rated value         2 kW           -         at 60 kr rated value         2 kW           -         at 60 kr rated value         2 kW           -         at 60 kr rated value         2 kW           -	• at 400 V rated value	4.1 A
• at AC-17.5 kW- at 230 V rated value7.5 kW- at 400 V rated value7.5 kW- at 400 V rated value13 kW- at 400 V rated value22 kW- at 420 V rated value22 kW- at 400 V rated value22 kW- at 400 V rated value5.5 kW- at 600 V rated value2.8 kW- at 600 rated value2.0 kW- at 60 rated value0.8 -	• at 690 V rated value	3.3 A
- al 230 V rated value75 kW- al 230 V rated value75 kW- al 230 V rated value13 kW- al 600 V al 60 °C rated value22 kW- al 400 V rated value22 kW- al 400 V rated value22 kW- al 400 V rated value4 kW- al 400 V rated value55 kW- al 400 V rated value58 kW- al 400 V rated value20 kW- al 400 V rated value58 kW- al 400 V rated value20 kW- al 400 kr rated value20 kW- al 400 kr rated value20 kW- al 400 kr rated value30 kW- al 400 kr rated value30 kW- al 400 kr rated value20 kW- al 400 kr rated value30 kW- al 400 kr rated value31 kW- al 400 kr ra	operating power	
	• at AC-1	
	— at 230 V rated value	7.5 kW
	— at 230 V at 60 °C rated value	7.5 kW
• at AC-3	— at 400 V at 60 °C rated value	13 kW
	— at 690 V at 60 °C rated value	22 kW
	• at AC-3	
at 800 V rated value5.5 kW at 400 V rated value4 kW at 800 V rated value5.5 kWoperating power for approx. 200000 operating cycles at AC-4- at 400 V rated value2 kW- at 400 V rated value2 kW- at 600 V rated value1000 1/hoperating frequency1- at AC-3 maximum750 1/h- at AC-3 maximum750 1/h- at AC-4 maximum250 1/h- at AC-4 maximum250 1/h- at 60 V rated value220 V- ottool circuit/ Control20 V- at 60 V rated value20 V- at 60 Hz rated value20 V- at 60 Hz0.8 1.1- at 60 Hz<	— at 230 V rated value	2.2 kW
• at AC-3eA W at 400 V rated value4 kW at 600 V rated value5.5 kWoperating power for approx. 200000 operating cycles at AC-42 kW• at 400 V rated value2 kW• at 600 V rated value10000 1/h• at 60 rated value750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum750 1/h• at AC-4 maximum220 V• at 60 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz rated value85 1.1• at 50 Hz0.8 1.1• at 5	— at 400 V rated value	4 kW
at 400 V rated value4 kW at 690 V rated value5 kWoperating power for approx. 200000 operating cycles at AC• at 400 V rated value2 kW• at 400 V rated value2 kWmoload switching frequency2 kW• at AC0 000 1/h• at AC-1 maximum1000 1/h• at AC-1 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at 60 Hz rated value220 V• at 50 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 0.	— at 690 V rated value	5.5 kW
	• at AC-3e	
operating power for approx. 200000 operating cycles at AC- 4         2 kW           • at 400 V rated value         2 kW           • at 690 V rated value         2 kW           • at 600 value         2 kW           • at AC         10 000 1/h           operating frequency         •           • at AC-3 maximum         1000 1/h           • at AC-3 maximum         750 1/h           • at AC-3 maximum         250 1/h           Control circuit/ Control         V           Control circuit/ Control         220 V           • at 50 Hz rated value         220 V           • at 50 Hz         0.8 1.1           • at 60 Hz         0.8	— at 400 V rated value	4 kW
	— at 690 V rated value	5.5 kW
• at 400 V rated value2 kW• at 600 V rated value2 kWno-load switching frequency0000 1/h• at AC10 000 1/h• at AC1000 1/h• at AC-3 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at 50 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz rated value20 V• at 60 Hz rated value0.8 1.1• at 60 Hz0.8 1.1 <trr>• at 60 Hz0.8 1.1<td></td><td></td></trr>		
• at 680 V rated value2.5 kWno-load switching frequency • at AC0000 1/h• at AC1000 1/h• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum220 V• at 50 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1 VA• at 60 Hz0.8• at 60 Hz0.25• at 60 Hz <t< td=""><td></td><td></td></t<>		
no-load switching frequencyi t AC• at AC10 000 1/hoperating frequency1000 1/h• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at 50 Hz rated value220 V• at 50 Hz rated value220 V• at 60 Hz rated value220 V• at 60 Hz0.8 1.1• at 60 Hz0.85 1.1at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 60 Hz0.8• at 60 Hz0.25• at 60 H		
• et AC         10 000 1/h           operating frequency         -           • et AC-1 maximum         1000 1/h           • et AC-3 maximum         750 1/h           • et AC-3 maximum         250 1/h           • et AC-4 maximum         20 V           • et at OHz rated value         20 V           • et 60 Hz rated value         20 V           • et 60 Hz rated value         0.8 1.1           • et 60 Hz         0.8 1.1           • et		2.5 kW
operating frequencyI• at AC-1 maximum1 000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/hControl supply voltage of the control supply voltageAC• at 50 Hz rated value220 V• at 60 Hz rated value220 V• at 50 Hz0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 50 Hz0.8• at 50 Hz0.8• at 50 Hz0.8• at 60 Hz0.25• at 60 Hz <td></td> <td></td>		
• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/hControl supply voltage at AC• at BC Hz rated value220 V• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.85 1.1• at 60 Hz0.85 1.1• at 60 Hz0.85 1.1• at 60 Hz0.85 1.1• at 60 Hz0.81• at 60 Hz0.25• at 60 Hz		10 000 1/h
• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum250 1/hControl circuit/ ControlKControl circuit/ ControlACControl supply voltage at ACAC• at 50 Hz rated value220 V• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of220 Voperating range factor control supply voltage rated value ofAC• at 60 Hz0.8 1.1• at 60 Hz0.85 1.1• at 60 Hz27 VA• at 60 Hz31.7 VAInductive power of magnet coil at AC0.8• at 60 Hz0.8• at 60 Hz0.25• a		
at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/hControl circuit/ ControlACcontrol supply voltage at AC20 V• at 50 Hz rated value20 V• at 60 Hz rated value20 V• at 60 Hz0.8 1.1• at 60 Hz0.25• at 60 Hz0.2	<ul> <li>at AC-1 maximum</li> </ul>	
• at AC-4 maximum250 1/hControl circuit/ ControlACtype of voltage of the control supply voltageACcontrol supply voltage at AC-• at 50 Hz rated value220 V• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 50 Hz0.2.5• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz1• at 60 Hz0.25• at 60 H		
Control circuit/ Control       AC         type of voltage of the control supply voltage       AC         control supply voltage at AC       220 V         • at 50 Hz rated value       220 V         operating range factor control supply voltage rated value of magnet coil at AC       220 V         • at 50 Hz       0.8 1.1         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       27 VA         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       31.7 VA         • at 50 Hz       0.8 4.1         • at 50 Hz       0.8 1.1         apparent pick-up power of magnet coil at AC       31.7 VA         • at 50 Hz       0.8 1.1         • at 50 Hz       0.2 VA         • at 50 Hz       0.2 VA         • at 50 Hz       0.25 1.1         • at 50 Hz       0.25 1.1         • at 50 Hz	• at AC-3e maximum	750 1/h
type of voltage of the control supply voltage         AC           control supply voltage at AC         220 V           • at 50 Hz rated value         220 V           • at 60 Hz rated value         220 V           operating range factor control supply voltage rated value of magnet coil at AC         0.8 1.1           • at 50 Hz         0.8 1.1           • at 50 Hz         0.8 1.1           • at 50 Hz         0.8 1.1           • at 60 Hz         0.8           • at 60 Hz         0.25           • at 60 Hz         0.25 <td></td> <td>250 1/h</td>		250 1/h
control supply voltage at AC220 V• at 50 Hz rated value220 V• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC27 VA• at 50 Hz3.17 VA• at 50 Hz0.8• at 50 Hz0.8• at 50 Hz0.8• at 60 Hz0.25• at 60 Hz0.25	Control circuit/ Control	
• at 50 Hz rated value220 V• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1apparent pick-up power of magnet coil at AC27 VA• at 50 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 50 Hz0.8• at 60 Hz0.25• at 60 Hz1• at 60 Hz0.25• at 60 Hz1	type of voltage of the control supply voltage	AC
• at 60 Hz rated value220 Voperating range factor control supply voltage rated value of magnet coil at AC.• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1apparent pick-up power of magnet coil at AC.• at 60 Hz27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil.• at 50 Hz0.8• at 60 Hz0.8• at 50 Hz0.8• at 60 Hz0.8• at 60 Hz0.8• at 50 Hz0.8• at 50 Hz0.8• at 60 Hz0.8• at 50 Hz0.8• at 50 Hz0.25• at 60 Hz0.25	control supply voltage at AC	
operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1apparent pick-up power of magnet coil at AC27 VA• at 50 Hz27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 50 Hz0.8• at 60 Hz0.25• at 60 Hz0.25 <td>● at 50 Hz rated value</td> <td>220 V</td>	● at 50 Hz rated value	220 V
magnet coil at AC• at 50 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC• at 50 Hz27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil• at 50 Hz0.81• at 50 Hz0.81• at 60 Hz0.25• at 60 Hz0.25 <td< td=""><td>● at 60 Hz rated value</td><td>220 V</td></td<>	● at 60 Hz rated value	220 V
• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC27 VA• at 50 Hz27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 60 Hz0.8• at 60 Hz0.81• at 60 Hz0.81• at 60 Hz4.2 VA• at 60 Hz4.8 VA• at 60 Hz0.25• at 50 Hz0.25• at 60 Hz0.25• at 60 Hz1• at 50 Hz0.25• at 60 Hz0.25• at 60 Hz1• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz1• at 60 Hz0.25• at 60 Hz1• at 60 Hz1• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz1• at 60 Hz1• at 60 Hz0.25• at 60 Hz1• at 60 Hz<		
apparent pick-up power of magnet coil at AC27 VA• at 50 Hz27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 50 Hz0.8• at 60 Hz0.81apparent holding power of magnet coil at AC4.2 VA• at 50 Hz4.2 VA• at 60 Hz4.8 VA• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz1• at 60 Hz0.25	● at 50 Hz	
• at 50 Hz27 VA• at 60 Hz31.7 VAinductive power factor with closing power of the coil0.8• at 50 Hz0.8• at 60 Hz0.81apparent holding power of magnet coil at AC4.2 VA• at 50 Hz4.8 VA• at 60 Hz0.25• at 50 Hz0.25• at 60 Hz0.25• at 50 Hz1	• at 60 Hz	0.85 1.1
• at 60 Hz31.7 VAinductive power factor with closing power of the coil	apparent pick-up power of magnet coil at AC	
inductive power factor with closing power of the coil0.8• at 50 Hz0.8• at 60 Hz0.81apparent holding power of magnet coil at AC4.2 VA• at 50 Hz4.2 VA• at 60 Hz4.8 VAinductive power factor with the holding power of the coil0.25• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz1	● at 50 Hz	27 VA
• at 50 Hz0.8• at 60 Hz0.81apparent holding power of magnet coil at AC• at 50 Hz4.2 VA• at 60 Hz4.8 VA• at 60 Hz0.25• at 60 Hz0.25	• at 60 Hz	31.7 VA
• at 60 Hz0.81apparent holding power of magnet coil at AC	inductive power factor with closing power of the coil	
apparent holding power of magnet coil at AC       4.2 VA         • at 50 Hz       4.2 VA         • at 60 Hz       4.8 VA         inductive power factor with the holding power of the coil       0.25         • at 60 Hz       0.25	• at 50 Hz	0.8
• at 50 Hz4.2 VA• at 60 Hz4.8 VAinductive power factor with the holding power of the coil• at 50 Hz0.25• at 60 Hz0.25Auxiliary circuitnumber of NC contacts for auxiliary contacts instantaneous contact1	• at 60 Hz	0.81
• at 60 Hz     4.8 VA       inductive power factor with the holding power of the coil     0.25       • at 50 Hz     0.25       • at 60 Hz     0.25       Auxiliary circuit     0.25	apparent holding power of magnet coil at AC	
inductive power factor with the holding power of the coil       0.25         • at 50 Hz       0.25         • at 60 Hz       0.25         Auxiliary circuit       1         number of NC contacts for auxiliary contacts instantaneous contact       1	• at 50 Hz	4.2 VA
	• at 60 Hz	4.8 VA
• at 60 Hz     0.25       Auxiliary circuit     Image: Contacts for auxiliary contacts instantaneous contact       number of NC contacts for auxiliary contacts instantaneous     1	inductive power factor with the holding power of the coil	
Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous contact     1	• at 50 Hz	0.25
number of NC contacts for auxiliary contacts instantaneous 1	• at 60 Hz	0.25
contact	Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous 0		1
	number of NO contacts for auxiliary contacts instantaneous	0

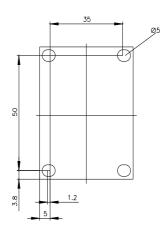
contact					
operational current at A	AC-12 maximum		10 A		
operational current at			1077		
at 230 V rated v			10 A		
<ul> <li>at 400 V rated value</li> </ul>			3 A		
<ul> <li>at 690 V rated value</li> </ul>			1 A		
operational current at					
<ul> <li>at 24 V rated val</li> </ul>			6 A		
at 110 V rated v			3 A		
<ul> <li>at 220 V rated value</li> </ul>	alue		1 A		
operational current a	t DC-13				
<ul> <li>at 24 V rated val</li> </ul>			6 A		
<ul> <li>at 110 V rated value</li> </ul>	alue		1 A		
<ul> <li>at 220 V rated value</li> </ul>	alue		0.3 A		
contact reliability of a	auxiliary contacts		1 faulty switching per 100 m	illion (17 V, 1 mA)	
JL/CSA ratings	,		5191		
	rformance [hp] for 3-pha	ase AC motor at	5 hp		
460/480 V rated value					
Short-circuit protection	n				
design of the fuse lin	k				
<ul> <li>for short-circuit p</li> </ul>	protection of the main ci	rcuit			
— with type o	of coordination 1 require	d	gL/gG LV HRC 3NA, DIAZE		
— with type o	of assignment 2 required	1	gL/gG LV HRC 3NA, DIAZE	ED 5SB, NEOZED 5SE: 20	A
<ul> <li>for short-circuit p</li> </ul>	protection of the auxiliar	y switch required	fuse gL/gG: 10 A		
nstallation/ mounting/	dimensions				
mounting position			+/-180° rotation possible on backward by +/- 22.5° on ve		can be tilted forward an
<ul> <li>fastening meth</li> </ul>	od		screw and snap-on mountin	ıg onto 35 mm DIN rail acc	ording to DIN EN 50022
<ul> <li>fastening metho</li> </ul>	d side-by-side mounting	3	Yes		
height			57.5 mm		
width			45 mm		
depth			73 mm		
required spacing with s	side-by-side mounting a	t the side	0 mm		
onnections/ Terminal	S				
type of electrical con	nection				
<ul> <li>for main current</li> </ul>	circuit		screw-type terminals		
<ul> <li>for auxiliary and</li> </ul>	control circuit		screw-type terminals		
type of connectable co	nductor cross-sections	for main contacts			
<ul> <li>solid or stranded</li> </ul>	b		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
<ul> <li>finely stranded v</li> </ul>	with core end processing	g	2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²)	
type of connectable of	conductor cross-section	ons			
<ul> <li>for auxiliary cont</li> </ul>	tacts				
— solid or stranded		2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²), 2x 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²)		
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14),	2x 12		
Electrical Safety					
protection class IP or	n the front according t	o IEC 60529	IP20		
touch protection on the front according to IEC 60529		finger-safe, for vertical conta	act from the front		
Approvals Certificates					
General Product App	proval				
	(m)	Confirmation	۰ CE	(l)	FAC
() E			EG-Konf.	UL	

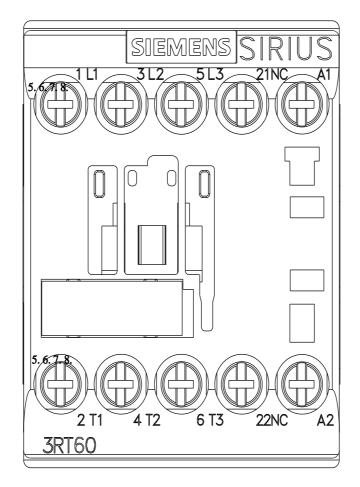


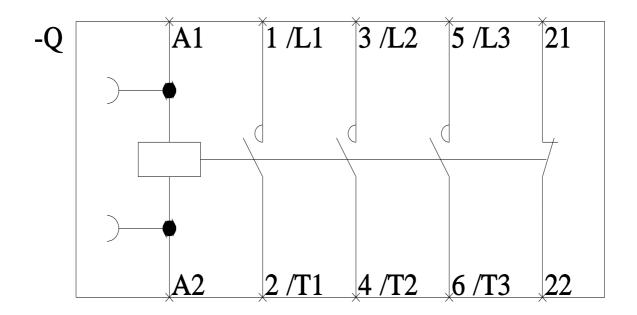
Further information











7/14/2023 🖸

3/15/2024

#### Data sheet

## 3RT6016-1AP02



Contactor AC 230 V 50/60 HZ AC3 4 kW 400 V AUX contacts: 1 NC 3-pole, size S00 screw terminal

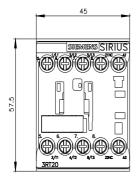
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.7 W
<ul> <li>without load current share typical</li> </ul>	1.05 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	22 A
- at ambient temperature 60 °C rated value	20 A
• at AC-3	

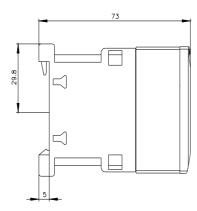
— at 400 V rated value	9 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 690 V rated value	6.7 A
connectable conductor cross-section in main circuit at AC-	
1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-3	
- at 230 V rated value	2.2 kW
— at 200 V rated value	4 kW
— at 400 V rated value	4 KW 5.5 kW
	0.0 KVV
• at AC-3e	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC- 4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
● at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	230 V
• at 50 Hz	0.8 1.1
	0.85 1.1
• at 60 Hz	0.00 1.1
apparent pick-up power of magnet coil at AC	27.1/4
• at 50 Hz	27 VA
• at 60 Hz	31.7 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	
● at 50 Hz	4.2 VA
• at 60 Hz	4.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous	0
· · · · · · · · · · · · · · · · · · ·	

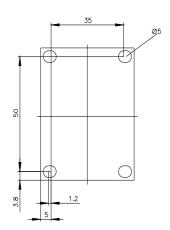
contact			
operational current at		10 A	
operational current			
at 230 V rated value		10 A	
• at 400 V rated value		3 A	
<ul> <li>at 690 V rated</li> </ul>		1 A	
operational current			
<ul> <li>at 24 V rated v</li> </ul>	alue	6 A	
<ul> <li>at 110 V rated</li> </ul>	value	3 A	
<ul> <li>at 220 V rated</li> </ul>	value	1 A	
operational current	at DC-13		
<ul> <li>at 24 V rated v</li> </ul>	alue	6 A	
<ul> <li>at 110 V rated</li> </ul>	value	1 A	
<ul> <li>at 220 V rated</li> </ul>	value	0.3 A	
contact reliability of	auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)	
JL/CSA ratings			
yielded mechanical p 460/480 V rated value	erformance [hp] for 3-phase AC motor at	5 hp	
Short-circuit protection	on		
design of the fuse li	nk		
<ul> <li>for short-circuit</li> </ul>	protection of the main circuit		
- with type	of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A	
— with type	of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A	
<ul> <li>for short-circuit</li> </ul>	protection of the auxiliary switch required	fuse gL/gG: 10 A	
nstallation/ mounting	/ dimensions		
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward an backward by +/- 22.5° on vertical mounting surface	
fastening method		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022	
<ul> <li>side-by-side m</li> </ul>	ounting	Yes	
height		57.5 mm	
width		45 mm	
depth		73 mm	
•	side-by-side mounting at the side	0 mm	
Connections/ Termina			
type of electrical co			
<ul> <li>for main currer</li> </ul>		screw-type terminals	
<ul> <li>for auxiliary an</li> </ul>		screw-type terminals	
	onductor cross-sections for main contacts		
solid or strande		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²	
		2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> )	
-	with core end processing	2X (0.5 1.5 mm²), 2X (0.75 2.5 mm²)	
	conductor cross-sections		
<ul> <li>for auxiliary co</li> </ul>			
— solid or s		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>	
2	inded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )	
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14), 2x 12	
Electrical Safety			
Electrical Safety protection class IP	on the front according to IEC 60529	IP20	
Electrical Safety protection class IP of touch protection on	the front according to IEC 60529	IP20 finger-safe, for vertical contact from the front	
Electrical Safety protection class IP	the front according to IEC 60529		
Electrical Safety protection class IP of touch protection on	the front according to IEC 60529		
Electrical Safety protection class IP of touch protection on Approvals Certificate	the front according to IEC 60529		
Electrical Safety protection class IP of touch protection on Approvals Certificate	the front according to IEC 60529		
Electrical Safety protection class IP of touch protection on Approvals Certificate	the front according to IEC 60529	finger-safe, for vertical contact from the front	
Electrical Safety protection class IP of touch protection on Approvals Certificate	the front according to IEC 60529	finger-safe, for vertical contact from the front	
Electrical Safety protection class IP of touch protection on Approvals Certificate	the front according to IEC 60529	finger-safe, for vertical contact from the front	
Electrical Safety protection class IP of touch protection on Approvals Certificate	the front according to IEC 60529	finger-safe, for vertical contact from the front	

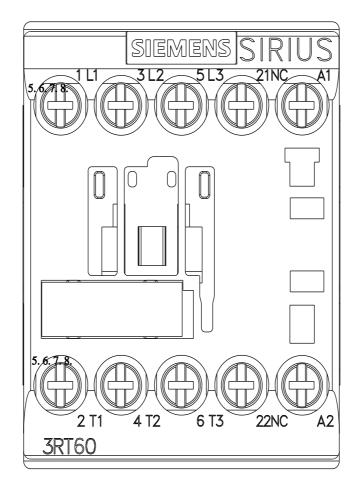


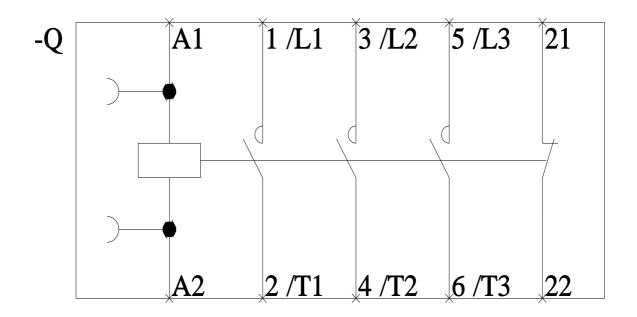
Further information











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4/10/2024

### Data sheet

### 3RT6016-1BB41



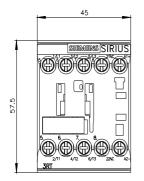
Contactor DC 24 V AC3 4 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

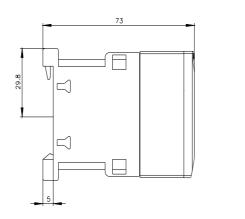
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.7 W
<ul> <li>without load current share typical</li> </ul>	4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	22 A
- at ambient temperature 60 °C rated value	20 A
• at AC-3	

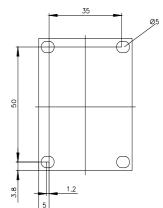
at 400 V rated value	0.4
— at 400 V rated value	9 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 690 V rated value	6.7 A
connectable conductor cross-section in main circuit at AC- 1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	4 mm²
operational current for approx. 200000 operating cycles at	
AC-4	
<ul> <li>at 400 V rated value</li> </ul>	4.1 A
<ul> <li>at 690 V rated value</li> </ul>	3.3 A
operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
• at 690 V rated value	2.5 kW
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
• at 400 V rated value	3A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	6 A
• at 110 V rated value	3 A
at 220 V rated value	1A
operational current at DC-13	
at 24 V rated value	6 A
• at 110 V rated value	1A
at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	

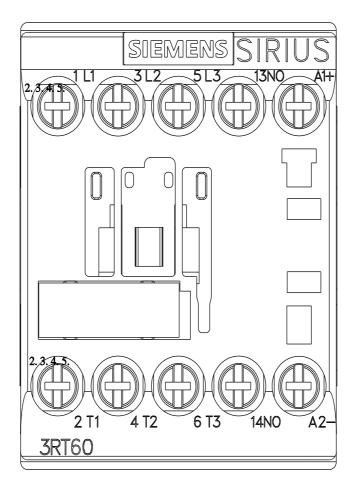
yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value		notor at 5 hp
Short-circuit prot	ection	
design of the fu	se link	
<ul> <li>for short-c</li> </ul>	ircuit protection of the main circuit	
— with	type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with	type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
<ul> <li>for short-c</li> </ul>	ircuit protection of the auxiliary switch r	required fuse gL/gG: 10 A
Installation/ mour	nting/ dimensions	
mounting positi	on	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
<ul> <li>fastening</li> </ul>	method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>fastening r</li> </ul>	method side-by-side mounting	Yes
height		57.5 mm
width		45 mm
depth		73 mm
required spacing	with side-by-side mounting at the side	0 mm
Connections/ Ter	minals	
type of electrica	al connection	
<ul> <li>for main curve</li> </ul>	urrent circuit	screw-type terminals
<ul> <li>for auxiliar</li> </ul>	y and control circuit	screw-type terminals
type of connectal	ble conductor cross-sections for main c	contacts
<ul> <li>solid or str</li> </ul>	anded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connect	able conductor cross-sections	
<ul> <li>for auxiliar</li> </ul>	y contacts	
— solid	or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— finely	v stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG c</li> </ul>	ables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
Electrical Safety		
protection class	s IP on the front according to IEC 605	529 IP20
touch protection	n on the front according to IEC 6052	finger-safe, for vertical contact from the front
Approvals Certific	cates	
General Produc	ct Approval	
()		Confirmation UL EFFIC
EMV	other Dan	ngerous Good Environment
Ø	Confirmation Tran	nsport Information Environmental Con- firmations

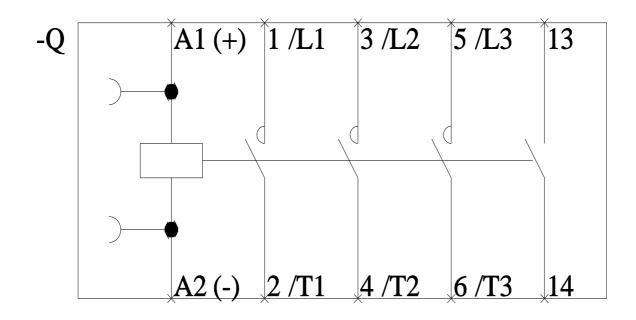
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### Data sheet

## 3RT6016-1BB42

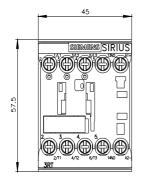


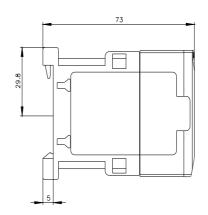
Contactor DC 24 V AC3 4 kW 400 V AUX contacts: 1 NC 3-pole, size S00 screw terminal

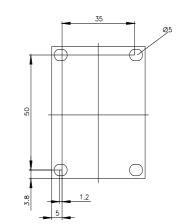
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.7 W
<ul> <li>without load current share typical</li> </ul>	4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	22 A
- at ambient temperature 60 °C rated value	20 A
• at AC-3	

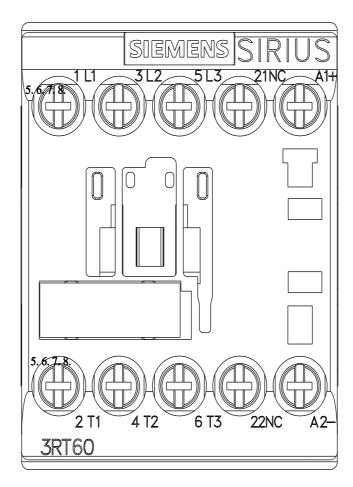
at 100 V/ rated value	0.4
— at 400 V rated value	9 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 690 V rated value	6.7 A
connectable conductor cross-section in main circuit at AC- 1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
<ul> <li>at 400 V rated value</li> </ul>	4.1 A
• at 690 V rated value	3.3 A
operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	0.0 KW
4	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
• at 690 V rated value	2.5 kW
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	
•	24 V
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
number of NO contacts for auxiliary contacts instantaneous	0
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
● at 400 V rated value	3 A
● at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	6 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A
operational current at DC-13	
• at 24 V rated value	6 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

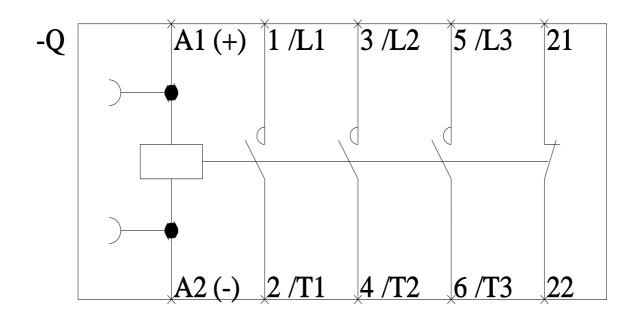
JL/CSA ratings				
yielded mechanical pe 460/480 V rated value	rformance [hp] for 3-phas	e AC motor at	5 hp	
hort-circuit protection	n			
design of the fuse lin	ık			
<ul> <li>for short-circuit</li> </ul>	protection of the main circ	cuit		
— with type of	of coordination 1 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A	
— with type of	- with type of assignment 2 required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A	
<ul> <li>for short-circuit</li> </ul>	protection of the auxiliary	switch required	fuse gL/gG: 10 A	
nstallation/ mounting/	dimensions			
mounting position			+/-180° rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface	
fastening method			screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 500	
<ul> <li>side-by-side mo</li> </ul>	ounting		Yes	
height			57.5 mm	
width			45 mm	
depth			73 mm	
required spacing with	side-by-side mounting at	the side	0 mm	
Connections/ Terminal	Is			
type of electrical con	nection			
<ul> <li>for main current</li> </ul>	circuit		screw-type terminals	
<ul> <li>for auxiliary and</li> </ul>	control circuit		screw-type terminals	
type of connectable co	onductor cross-sections for	or main contacts		
<ul> <li>solid or stranded</li> </ul>			2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
	conductor cross-section	าร		
<ul> <li>for auxiliary con</li> </ul>				
— solid or str			2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>	
-	nded with core end proces	ssing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )	
	for auxiliary contacts		2x (20 16), 2x (18 14), 2x 12	
Electrical Safety				
-	n the front according to		IP20	
-	the front according to IE	C 60529	finger-safe, for vertical contact from the front	
Approvals Certificates				
General Product App	oroval			
(SP) Em	CE EG-Konf.	<u>Confirmati</u>		
EMV	other	Dangerous G	Good Environment	
Â	<b>Confirmation</b>	Transport Infor	rmation Environmental Con- firmations	











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### Data sheet

## 3RT6017-1AB02



Contactor AC 24 V 50/60 HZ AC3 5.5 kW 400 V AUX contacts: 1 NC 3-pole, size S00 screw terminal

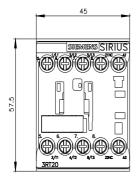
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.24 W
<ul> <li>without load current share typical</li> </ul>	1.42 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	22 A
— at ambient temperature 60 °C rated value	20 A
• at AC-3	

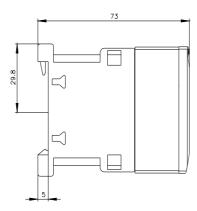
— at 400 V rated value	12 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 690 V rated value	6.7 A
connectable conductor cross-section in main circuit at AC-	
1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-3	
- at 230 V rated value	3 kW
— at 200 V rated value	5.5 kW
— at 400 V rated value	5.5 kW
• at AC-3e	0.0 KW
• at AC-3e — at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC- 4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
● at AC-1 maximum	1 000 1/h
● at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
● at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	
	24 V
• at 60 Hz rated value	24 V 24 V
at 60 Hz rated value     operating range factor control supply voltage rated value of     magnet coil at AC	24 V 24 V
operating range factor control supply voltage rated value of magnet coil at AC	
operating range factor control supply voltage rated value of	24 V
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz	24 V 0.8 1.1
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC	24 V 0.8 1.1 0.85 1.1
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz	24 V 0.8 1.1 0.85 1.1 37 VA
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 5.7 VA
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 5.7 VA 6.5 VA
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 5.7 VA 6.5 VA 0.25
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 5.7 VA 6.5 VA
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 5.7 VA 6.5 VA 0.25 0.25
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	24 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 5.7 VA 6.5 VA 0.25

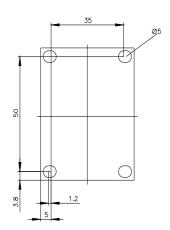
contact					
operational current at AC-12	maximum		10 A		
operational current at AC-1	5				
• at 230 V rated value		10 A			
• at 400 V rated value		3 A			
<ul> <li>at 690 V rated value</li> </ul>	• at 690 V rated value		1 A		
operational current at DC-1	2				
<ul> <li>at 24 V rated value</li> </ul>			6 A		
<ul> <li>at 110 V rated value</li> </ul>			3 A		
<ul> <li>at 220 V rated value</li> </ul>			1 A		
operational current at DC-1	3				
<ul> <li>at 24 V rated value</li> </ul>			6 A		
<ul> <li>at 110 V rated value</li> </ul>			1 A		
<ul> <li>at 220 V rated value</li> </ul>			0.3 A		
contact reliability of auxilia	ry contacts		1 faulty switching per 100 m	nillion (17 V, 1 mA)	
IL/CSA ratings					
yielded mechanical performa 460/480 V rated value	ince [hp] for 3-phas	e AC motor at	7.5 hp		
hort-circuit protection					
design of the fuse link					
<ul> <li>for short-circuit protect</li> </ul>	tion of the main circ	cuit			
- with type of coor			gL/gG LV HRC 3NA, DIAZE	ED 5SB, NEOZED 5SE: 35	A
— with type of assig	gnment 2 required		gL/gG LV HRC 3NA, DIAZE	ED 5SB, NEOZED 5SE: 20	A
<ul> <li>for short-circuit protect</li> </ul>	tion of the auxiliary	switch required	fuse gL/gG: 10 A		
nstallation/ mounting/ dime					
mounting position			+/-180° rotation possible on backward by +/- 22.5° on ve		can be tilted forward and
fastening method			screw and snap-on mountir	ng onto 35 mm DIN rail acc	ording to DIN EN 50022
<ul> <li>side-by-side mounting</li> </ul>			Yes		
height			57.5 mm		
width			45 mm		
depth			73 mm		
required spacing with side-by	/-side mounting at !	the side	0 mm		
connections/ Terminals	, i i i i i i i i i i i i i i i i i i i				
type of electrical connection	n				
<ul> <li>for main current circuit</li> </ul>			screw-type terminals		
<ul> <li>for auxiliary and control</li> </ul>	ol circuit		screw-type terminals		
type of connectable conducto		r main contacts			
<ul> <li>solid or stranded</li> </ul>			2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
<ul> <li>finely stranded with co</li> </ul>	re end processing		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
type of connectable condu		16	2x (0.0 1.0 mm), 2x (0.7	0 2.0 mm )	
<ul> <li>for auxiliary contacts</li> </ul>	000000000000000000000000000000000000000	13			
- solid or stranded			$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.7$	5 $2.5 \text{ mm}^2$ $2 \text{ v} 4 \text{ mm}^2$	
— finely stranded w		soing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.7		
	•	ssing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
for AWG cables for au			2x (20 16), 2x (18 14),	27.12	
Electrical Safety	ront apporting to	IEC 60520	1020		
protection class IP on the f			IP20	act from the front	
touch protection on the fro			finger-safe, for vertical cont		
Approvals Certificates					
General Product Approval					
		Confirmatio	in 🦳	$\sim$	
(SP)	$C \in$	<u>e e</u>	( <b>m</b> )	(U)	C 0 F
					ΓΠΙ
	EG-Konf.		ccc	UL	
CSA					
CSA					
CSA					

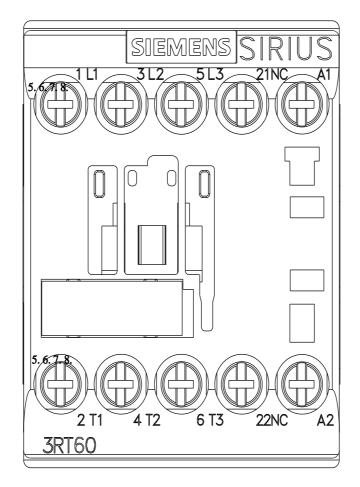


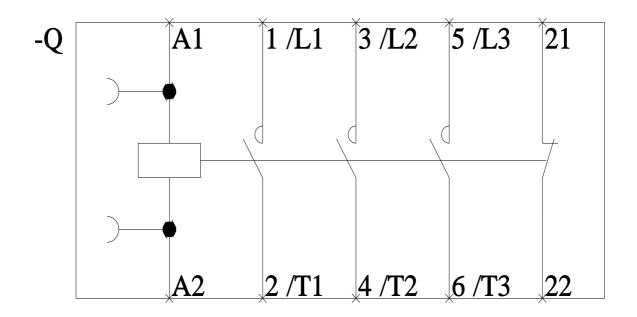
Further information











7/14/2023 🖸

4/24/2024

### Data sheet

## 3RT6017-1AN21



Contactor AC 220 V 50/60 HZ AC3 5.5 kW 400 V AUX contacts: 1 NO 3-pole, size S00 screw terminal

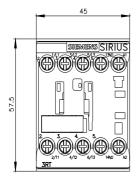
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.24 W
<ul> <li>without load current share typical</li> </ul>	1.42 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	22 A
— at ambient temperature 60 °C rated value	20 A
• at AC-3	

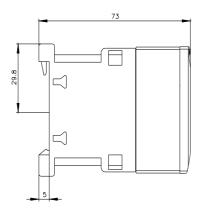
— at 400 V rated value	12 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 690 V rated value	6.7 A
connectable conductor cross-section in main circuit at AC-	
1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	4.1 A
at 690 V rated value	3.3 A
operating power	0.077
• at AC-1	
— at 230 V rated value	7.5 kW
	7.5 kW
- at 230 V at 60 °C rated value	
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
at 690 V rated value	2.5 kW
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	1,000,1/b
• at AC-1 maximum	1 000 1/h
<ul><li>at AC-1 maximum</li><li>at AC-3 maximum</li></ul>	750 1/h
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> </ul>	750 1/h 750 1/h
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> </ul>	750 1/h
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> </ul>	750 1/h 750 1/h 250 1/h
at AC-1 maximum     at AC-3 maximum     at AC-3e maximum     at AC-3e maximum     at AC-4e maximum Control circuit/ Control type of voltage of the control supply voltage	750 1/h 750 1/h
at AC-1 maximum     at AC-3 maximum     at AC-3e maximum     at AC-3e maximum     at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	750 1/h 750 1/h 250 1/h AC
at AC-1 maximum     at AC-3 maximum     at AC-3e maximum     at AC-3e maximum     at AC-4e maximum Control circuit/ Control type of voltage of the control supply voltage	750 1/h 750 1/h 250 1/h
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	750 1/h 750 1/h 250 1/h AC
at AC-1 maximum     at AC-3 maximum     at AC-3 maximum     at AC-3e maximum     at AC-4e maximum     Control circuit/ Control     type of voltage of the control supply voltage     control supply voltage at AC         e at 50 Hz rated value         e at 60 Hz rated value         operating range factor control supply voltage rated value of     magnet coil at AC	750 1/h 750 1/h 250 1/h AC 220 V
at AC-1 maximum     at AC-3 maximum     at AC-3e maximum     at AC-4e maximum     at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     at 50 Hz rated value     at 60 Hz rated value operating range factor control supply voltage rated value of	750 1/h 750 1/h 250 1/h AC 220 V
at AC-1 maximum     at AC-3 maximum     at AC-3 maximum     at AC-3e maximum     at AC-4e maximum     Control circuit/ Control     type of voltage of the control supply voltage     control supply voltage at AC         e at 50 Hz rated value         e at 60 Hz rated value         operating range factor control supply voltage rated value of     magnet coil at AC	750 1/h 750 1/h 250 1/h AC 220 V 220 V
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4e maximum</li> <li>at AC-4 maximum</li> </ul> Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC         <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 50 Hz</li> </ul> </li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 60 Hz</li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz <ul> <li>at 60 Hz</li> </ul> </li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz</li>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 0.8
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>inductive power factor with the holding power of the coil <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 0.8
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 0.8
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 0.8
<ul> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz <ul> <li>at 60 Hz</li> </ul> </li> </ul>	750 1/h 750 1/h 250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 37 VA 43 VA 0.8 0.8 0.8 5.7 VA 6.5 VA 0.25 0.25

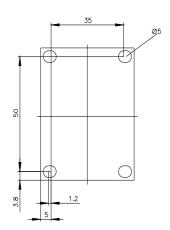
contact				
operational current	at AC-12 maximum		10 A	
operational currer				
<ul> <li>at 230 V rate</li> </ul>	ed value		10 A	
• at 400 V rate	ed value		3 A	
• at 690 V rate	ed value		1 A	
operational curren			_	
<ul> <li>at 24 V rated</li> </ul>			6 A	
• at 110 V rate	ed value		3 A	
• at 220 V rate	ed value		1 A	
operational currer	nt at DC-13			
<ul> <li>at 24 V rated</li> </ul>	l value		6 A	
• at 110 V rate	ed value		1 A	
• at 220 V rate	ed value		0.3 A	
contact reliability	of auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)	
JL/CSA ratings				
yielded mechanical	performance [hp] for 3-pha	ase AC motor at	7.5 hp	
460/480 V rated va				_
Short-circuit protec	tion			
design of the fuse	link			
	uit protection of the main ci			
— with typ	pe of coordination 1 require	d	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A	
— with typ	be of assignment 2 required	ł	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A	
<ul> <li>for short-circ</li> </ul>	uit protection of the auxiliar	y switch required	fuse gL/gG: 10 A	
nstallation/ mounti	ng/ dimensions			
mounting position	1		+/-180° rotation possible on vertical mounting surface; can be tilted forw backward by +/- 22.5° on vertical mounting surface	vard and
<ul> <li>fastening m</li> </ul>	ethod		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN	50022
•	ethod side-by-side mounting	۲ د	Yes	
height			57.5 mm	
width			45 mm	
depth			73 mm	
required spacing w	ith side-by-side mounting a	t the side	0 mm	
Connections/ Termi	inals			
type of electrical of	connection			
<ul> <li>for main curr</li> </ul>	ent circuit		screw-type terminals	
	and control circuit		screw-type terminals	
	e conductor cross-sections	for main contacts		
<ul> <li>solid or strar</li> </ul>	ıded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²	
<ul> <li>finely strand</li> </ul>	ed with core end processing	g	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
type of connectab	le conductor cross-section	ons		
<ul> <li>for auxiliary</li> </ul>				
— solid or			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	
	tranded with core end proc	essing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )	
-	bles for auxiliary contacts		2x (00 16), 2x (18 14), 2x 12	
Electrical Safety	, sourced			
,	P on the front according t	o IEC 60529	IP20	
-	on the front according to		finger-safe, for vertical contact from the front	
louch protection (				
•				
Approvals Certifica				
•	Approvar			-
Approvals Certifica		CF		Г
Approvals Certifica		CE EG-Konf.		[
Approvals Certifica	other	Environment	EH 🥨	[

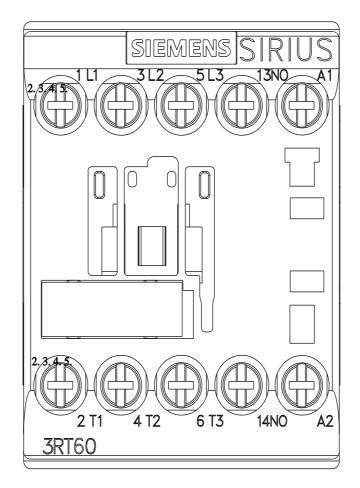


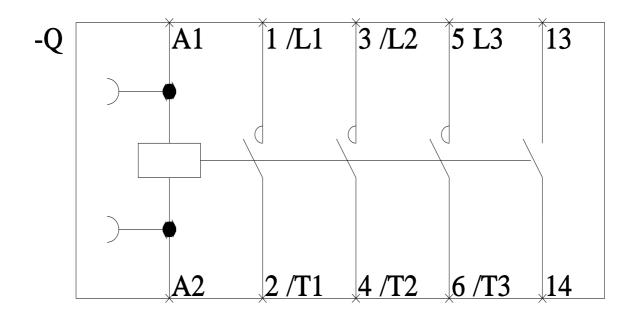
Further information











7/14/2023 🖸

3/18/2024

### Data sheet

## 3RT6017-1AN22



Contactor AC 220 V 50/60 HZ AC3 5.5 kW 400 V AUX contacts: 1 NC 3-pole, size S00 screw terminal

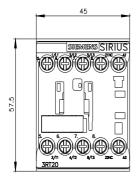
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.24 W
<ul> <li>without load current share typical</li> </ul>	1.42 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
of the contactor with added auxiliary switch block typical	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	22 A
- at ambient temperature 60 °C rated value	20 A
• at AC-3	

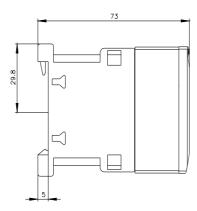
	10.1
— at 400 V rated value	12 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 690 V rated value	6.7 A
connectable conductor cross-section in main circuit at AC- 1	
	2.5 mm <sup>2</sup>
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
at 40 °C minimum permissible	4 mm²
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	4.1 A
at 690 V rated value	3.3 A
operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-3	
- at 230 V rated value	3 kW
— at 200 V rated value	5.5 kW
— at 400 V rated value	5.5 kW
• at AC-3e	0.0 ((**
• at AC-Se — at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC- 4	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
<ul> <li>at 690 V rated value</li> </ul>	2.5 kW
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
	37 VA
apparent pick-up power of magnet coil at AC	
apparent pick-up power of magnet coil at AC • at 50 Hz	37 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz	37 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil	37 VA 43 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	37 VA 43 VA 0.8
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC	37 VA 43 VA 0.8 0.8
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz	37 VA 43 VA 0.8 0.8 5.7 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz	37 VA 43 VA 0.8 0.8
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil	37 VA 43 VA 0.8 0.8 5.7 VA 6.5 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz	37 VA 43 VA 0.8 0.8 5.7 VA 6.5 VA 0.25
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	37 VA 43 VA 0.8 0.8 5.7 VA 6.5 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz	37 VA 43 VA 0.8 0.8 5.7 VA 6.5 VA 0.25 0.25
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	37 VA 43 VA 0.8 0.8 5.7 VA 6.5 VA 0.25
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	37 VA 43 VA 0.8 0.8 5.7 VA 6.5 VA 0.25 0.25

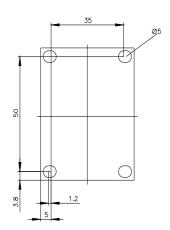
EMV other Environment	
EMV other Environment	
	EHC
General Product Approval	
touch protection on the front according to IEC 60529 pprovals Certificates	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529	IP20 finger safe, for vertical contact from the front
Electrical Safety	
•	2x (20 16), 2x (18 14), 2x 12
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>— solid or stranded</li> <li>finely stranded with core and processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
for auxiliary contacts	$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2) 2x 4 \text{ mm}^2$
type of connectable conductor cross-sections	
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
solid or stranded	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
type of connectable conductor cross-sections for main contacts	
for auxiliary and control circuit	screw-type terminals
for main current circuit	screw-type terminals
type of electrical connection	
connections/ Terminals	
required spacing with side-by-side mounting at the side	0 mm
depth	73 mm
width	45 mm
height	57.5 mm
side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward an backward by +/- 22.5° on vertical mounting surface
stallation/ mounting/ dimensions	
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
- with type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
for short-circuit protection of the main circuit	
design of the fuse link	
hort-circuit protection	
460/480 V rated value	
yielded mechanical performance [hp] for 3-phase AC motor at	7.5 hp
L/CSA ratings	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value	0.3 A
at 110 V rated value	1 A
at 24 V rated value	6 A
operational current at DC-13	
at 220 V rated value	1A
• at 110 V rated value	3 A
at 24 V rated value	6 A
operational current at DC-12	
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul>	3 A 1 A
• at 230 V rated value	10 A
operational current at AC-15	
operational current at AC-12 maximum	10 A
contact	

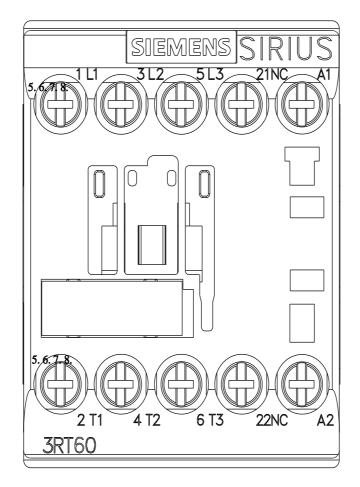


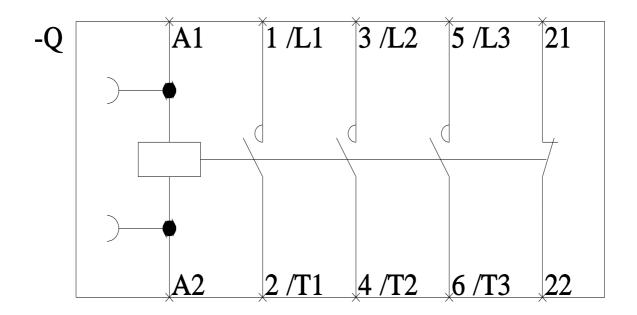
Further information











7/14/2023 🖸

### Data sheet

## 3RT6018-1AB01



Contactor AC 24 V 50/60 HZ AC3 7.5 kW 400 V AUX contacts 1 NO 3-pole, size S00 screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.2 W
<ul> <li>without load current share typical</li> </ul>	1.42 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	22 A
— at ambient temperature 60 °C rated value	20 A
• at AC-3	

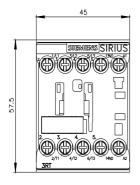
at 400 V rated value	16 A
- at 400 V rated value	16 A
— at 690 V rated value	8.9 A
• at AC-3e	
— at 400 V rated value	16 A
— at 690 V rated value	8.9 A
connectable conductor cross-section in main circuit at AC- 1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
<ul> <li>at 400 V rated value</li> </ul>	5.5 A
• at 690 V rated value	4.4 A
operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 400 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	0.5111
• at 400 V rated value	2.5 kW
at 690 V rated value	3.5 kW
no-load switching frequency	40.000.4//-
• at AC	10 000 1/h
operating frequency <ul> <li>at AC-1 maximum</li> </ul>	1 000 1/h
	750 1/h
• at AC-3 maximum	
<ul> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> </ul>	750 1/h
Control circuit/ Control	250 1/h
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
• at 50 Hz rated value	24 V
at 50 Hz rated value     at 60 Hz rated value	24 V 24 V
	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
-	
• at 50 Hz	37 VA
• at 50 Hz • at 60 Hz	37 VA 43 VA
• at 60 Hz	
• at 60 Hz inductive power factor with closing power of the coil	43 VA
at 60 Hz inductive power factor with closing power of the coil     at 50 Hz	43 VA 0.8
<ul> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	43 VA 0.8
at 60 Hz      inductive power factor with closing power of the coil         e at 50 Hz         e at 60 Hz      apparent holding power of magnet coil at AC	43 VA 0.8 0.8
at 60 Hz      inductive power factor with closing power of the coil         e at 50 Hz         e at 60 Hz      apparent holding power of magnet coil at AC         e at 50 Hz	43 VA 0.8 0.8 5.7 VA
at 60 Hz      inductive power factor with closing power of the coil         e at 50 Hz         e at 60 Hz      apparent holding power of magnet coil at AC         e at 50 Hz         e at 60 Hz	43 VA 0.8 0.8 5.7 VA
• at 60 Hz      inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz      apparent holding power of magnet coil at AC         • at 50 Hz         • at 60 Hz      inductive power factor with the holding power of the coil	43 VA 0.8 0.8 5.7 VA 6.5 VA
<ul> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> </ul>	43 VA 0.8 0.8 5.7 VA 6.5 VA 0.25
at 60 Hz      inductive power factor with closing power of the coil         at 50 Hz         at 60 Hz      apparent holding power of magnet coil at AC         at 50 Hz         at 60 Hz      inductive power factor with the holding power of the coil         at 50 Hz         at 60 Hz      Auxiliary circuit      number of NC contacts for auxiliary contacts instantaneous	43 VA 0.8 0.8 5.7 VA 6.5 VA 0.25
at 60 Hz      inductive power factor with closing power of the coil         e at 50 Hz         e at 60 Hz      apparent holding power of magnet coil at AC         e at 50 Hz         e at 60 Hz      inductive power factor with the holding power of the coil         e at 50 Hz         e at 60 Hz      Auxiliary circuit	43 VA 0.8 0.8 5.7 VA 6.5 VA 0.25 0.25

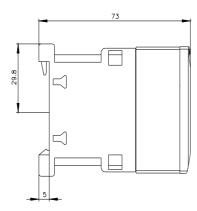
contact operational current at AC-12 maximum	
	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 400 V rated value	1A
operational current at DC-12	
• at 24 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1A
operational current at DC-13	
• at 24 V rated value	6 A
at 110 V rated value	1A
at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor at	10 hp
460/480 V rated value	
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
<ul> <li>— with type of assignment 2 required</li> </ul>	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
<ul> <li>fastening method</li> </ul>	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>fastening method side-by-side mounting</li> </ul>	Yes
height	57.5 mm
width	45 mm
depth	73 mm
•	
required spacing with side-by-side mounting at the side	0 mm
required spacing with side-by-side mounting at the side Connections/ Terminals	0 mm
Connections/ Terminals	0 mm
Connections/ Terminals type of electrical connection	
Connections/ Terminals type of electrical connection • for main current circuit	screw-type terminals
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts	screw-type terminals screw-type terminals
Connections/ Terminals type of electrical connection of or main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for main contacts o solid or stranded	screw-type terminals screw-type terminals 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing	screw-type terminals screw-type terminals
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	screw-type terminals screw-type terminals 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
Connections/ Terminals type of electrical connection of for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts	screw-type terminals screw-type terminals 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
Connections/ Terminals type of electrical connection of or main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts for auxiliary contacts — solid or stranded	screw-type terminals screw-type terminals 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
Connections/ Terminals type of electrical connection         for main current circuit         for auxiliary and control circuit type of connectable conductor cross-sections for main contacts         solid or stranded         finely stranded with core end processing type of connectable conductor cross-sections         for auxiliary contacts             for auxiliary contacts             — solid or stranded             — finely stranded with core end processing	screw-type terminals screw-type terminals 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts for auxiliary contacts	screw-type terminals screw-type terminals 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
Connections/ Terminals type of electrical connection         for main current circuit         for auxiliary and control circuit type of connectable conductor cross-sections for main contacts         solid or stranded         finely stranded with core end processing type of connectable conductor cross-sections         for auxiliary contacts             — solid or stranded             — finely stranded with core end processing             for auxiliary contacts             — solid or stranded             — finely stranded with core end processing             • for AWG cables for auxiliary contacts             Electrical Safety	screw-type terminals screw-type terminals 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14), 2x 12
Connections/ Terminals type of electrical connection         for main current circuit         for auxiliary and control circuit type of connectable conductor cross-sections for main contacts         solid or stranded         finely stranded with core end processing type of connectable conductor cross-sections         for auxiliary contacts             — solid or stranded             — finely stranded with core end processing         for auxiliary contacts             — solid or stranded             — finely stranded with core end processing             • for AWG cables for auxiliary contacts Electrical Safety protection class IP on the front according to IEC 60529	screw-type terminals screw-type terminals 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14), 2x 12
Connections/ Terminals type of electrical connection         for main current circuit         for auxiliary and control circuit type of connectable conductor cross-sections for main contacts         solid or stranded         finely stranded with core end processing type of connectable conductor cross-sections         for auxiliary contacts             — solid or stranded             — finely stranded with core end processing             for auxiliary contacts             — solid or stranded             — finely stranded with core end processing             • for AWG cables for auxiliary contacts             Electrical Safety	screw-type terminals screw-type terminals 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12

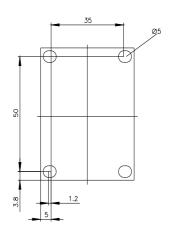
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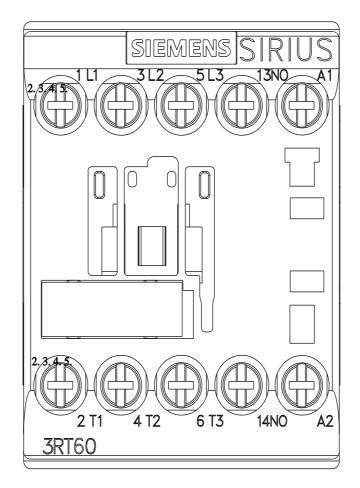


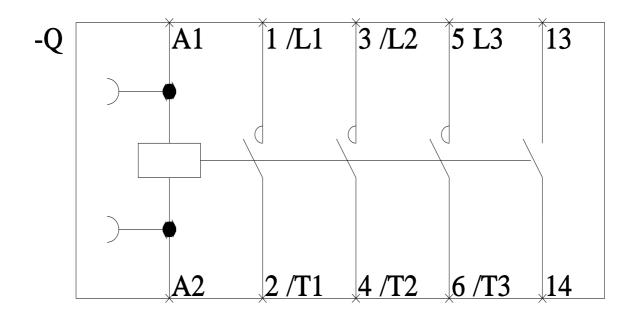
Further information











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### Data sheet

## 3RT6023-1AN20



Contactor AC 220 V 50/60 HZ AC3 4 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

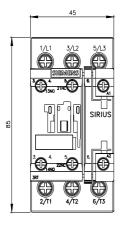
0/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.4 W
<ul> <li>without load current share typical</li> </ul>	1.97 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
● at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
● at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	40 A
— at ambient temperature 60 °C rated value	35 A
• at AC-3	

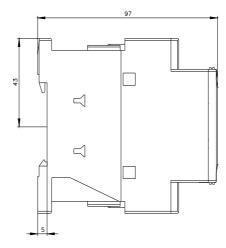
— at 400 V rated value	9 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	9 A
— at 690 V rated value	9 A
connectable conductor cross-section in main circuit at AC-	
1	
• at 60 °C minimum permissible	10 mm²
• at 40 °C minimum permissible	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operating power	
• at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V at 60 °C rated value	40 kW
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 400 V rated value	4 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
● at AC-1 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
● at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	7.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous	1

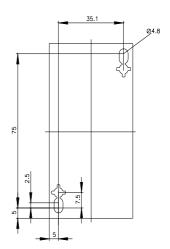
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	6 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
L/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor 460/480 V rated value	at 5 hp
hort-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
<ul> <li>for short-circuit protection of the auxiliary switch requi</li> </ul>	
istallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward an
mounting position	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing with side-by-side mounting at the side	0 mm
onnections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
	screw-type terminals
for auxiliary and control circuit	
type of connectable conductor cross-sections for main conta	
solid or stranded	$2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
pprovals Certificates	
General Product Approval	
SP C €	
CSA EG-Konf.	ccc UL
Carl as torns	
EMV other Environ	ment

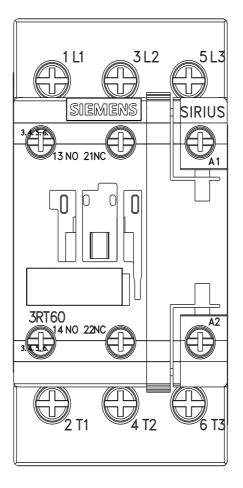


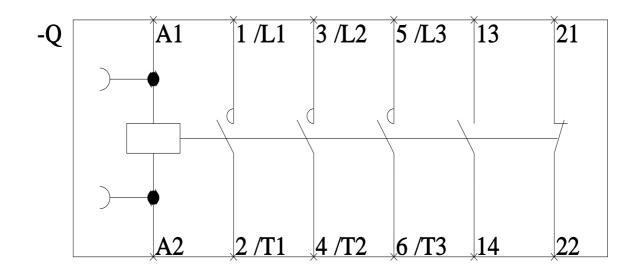
Further information











3/26/2024

#### Data sheet

### 3RT6024-1AN20



Contactor AC 220 V 50/60 HZ AC3 5.5 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

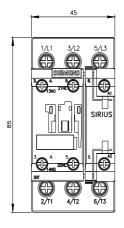
VIIS	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	SO
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
without load current share typical	1.97 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
of the contactor with added auxiliary switch block typical	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	40 A
- at ambient temperature 60 °C rated value	35 A
• at AC-3	

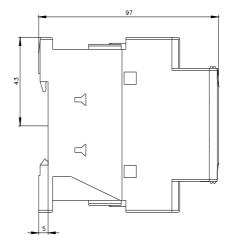
— at 400 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 690 V rated value	9 A
connectable conductor cross-section in main circuit at AC- 1	
• at 60 °C minimum permissible	10 mm²
• at 40 °C minimum permissible	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	5.5 A
operating power	
• at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V at 60 °C rated value	40 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 400 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2.6 kW
• at 690 V rated value	4.6 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	7.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	
contact	1

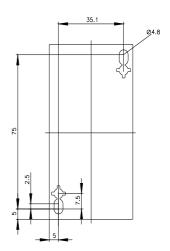
contact operational current at AC-12 operational current at AC-7 e at 230 V rated value at 400 V rated value e at 690 V rated value operational current at DC-7 e at 24 V rated value at 110 V rated value e at 220 V rated value operational current at DC-7 e at 24 V rated value at 220 V rated value e at 220 V rated value e at 110 V rated value e at 220 V rated value e at 220 V rated value o at 220 V rated value e at 220 V rated value	15 12 13	10 A 10 A 3 A 1 A 6 A 3 A 1 A 6 A 1 A
operational current at AC- • at 230 V rated value • at 400 V rated value • at 690 V rated value operational current at DC- • at 24 V rated value • at 110 V rated value • at 220 V rated value operational current at DC- • at 24 V rated value • at 24 V rated value	15 12 13	10 A 3 A 1 A 6 A 3 A 1 A 6 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>operational current at DC-</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> </ul>	12 13	3 A 1 A 6 A 3 A 1 A 6 A
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>operational current at DC</li> <li>at 24 V rated value</li> <li>at 210 V rated value</li> <li>at 210 V rated value</li> </ul>	13	3 A 1 A 6 A 3 A 1 A 6 A
at 690 V rated value     operational current at DC-         at 24 V rated value         at 110 V rated value         at 220 V rated value         operational current at DC-         at 24 V rated value         at 110 V rated value         at 210 V rated value         at 210 V rated value         at 220 V rated value         at 210 V rated value         at 220 V rated value	13	1 A 6 A 3 A 1 A 6 A
operational current at DC- • at 24 V rated value • at 110 V rated value • at 220 V rated value operational current at DC- • at 24 V rated value • at 110 V rated value • at 220 V rated value	13	6 A 3 A 1 A 6 A
at 24 V rated value     at 110 V rated value     at 220 V rated value     operational current at DC-     at 24 V rated value     at 110 V rated value     at 110 V rated value     at 220 V rated value	13	3 A 1 A 6 A
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> operational current at DC <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>		3 A 1 A 6 A
<ul> <li>at 220 V rated value</li> <li>operational current at DC-</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>		1 A 6 A
<ul> <li>operational current at DC-</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>		6 A
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>		
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>		
• at 220 V rated value		1 A
contact reliability of auxilia		0.3 A
	ary contacts	1 faulty switching per 100 million (17 V, 1 mA)
L/CSA ratings		
yielded mechanical performa 460/480 V rated value	ance [hp] for 3-phase AC motor at	7.5 hp
hort-circuit protection		
design of the fuse link		
<ul> <li>for short-circuit protect</li> </ul>	tion of the main circuit	
— with type of coor		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
— with type of assi	·	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
	tion of the auxiliary switch required	
stallation/ mounting/ dime	· · ·	
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward an
mounting position		backward by +/- 22.5° on vertical mounting surface
fastening method		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>side-by-side mounting</li> </ul>	1	Yes
height		85 mm
width		45 mm
depth		97 mm
required spacing with side-b	v-side mounting at the side	0 mm
onnections/ Terminals	,	
type of electrical connection	20	
<ul> <li>for main current circui</li> </ul>		screw-type terminals
for auxiliary and contra-	or cross-sections for main contacts	screw-type terminals
	or cross-sections for main contacts	
<ul> <li>solid or stranded</li> </ul>		$2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$
finely stranded with co		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
type of connectable condu	ictor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>		
- solid or stranded		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
-	vith core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for au</li> </ul>	ixiliary contacts	2x (20 16), 2x (18 14)
Electrical Safety		
-	front according to IEC 60529	IP20
touch protection on the fro	ont according to IEC 60529	finger-safe, for vertical contact from the front
pprovals Certificates		
General Product Approval		
	((	
(QP)		
CSA	EG-Konf. CCC	
- 47 1		
EMV ot	her Environme	nt

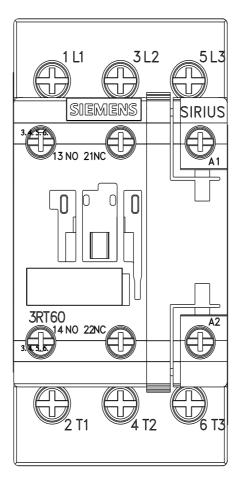


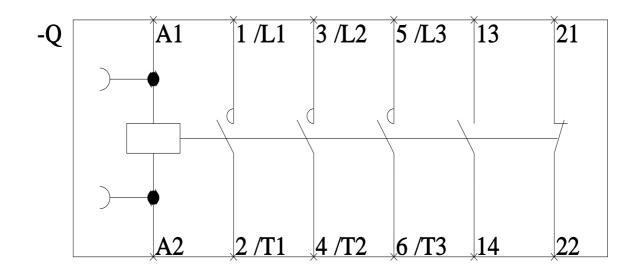
Further information











4/17/2024

#### Data sheet

### 3RT6025-1AN20



Contactor AC 220 V 50/60 HZ AC3 7.5 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

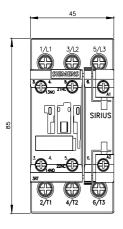
4113	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.9 W
<ul> <li>without load current share typical</li> </ul>	1.97 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
- at ambient temperature 40 °C rated value	40 A
— at ambient temperature 60 °C rated value	35 A
• at AC-3	

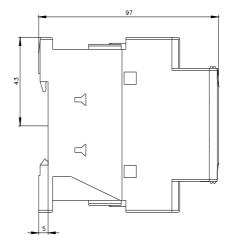
— at 400 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 690 V rated value	13 A
connectable conductor cross-section in main circuit at AC-	
1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	10 mm <sup>2</sup>
<ul> <li>at 40 °C minimum permissible</li> </ul>	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	7.7 A
<ul> <li>at 690 V rated value</li> </ul>	7.7 A
operating power	
• at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V at 60 °C rated value	40 kW
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 400 V rated value	7.5 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-	
4	
<ul> <li>at 400 V rated value</li> </ul>	3.5 kW
• at 690 V rated value	6 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
• at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	7.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
oondot	
number of NO contacts for auxiliary contacts instantaneous	1

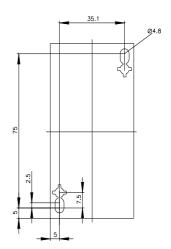
operational current at AC-12 maximum operational current at AC-15	
•	10 A
at 230 V rated value	10 A
at 400 V rated value	3 A
at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1A
operational current at DC-13	
at 24 V rated value	6 A
at 110 V rated value	1A
at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value	10 hp
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
- with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 05 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward an
	backward by +/- 22.5° on vertical mounting surface
for the strength of	and an an an anti-25 and DIN at a condition to DIN 50000
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
fastening method side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing with side-by-side mounting at the side	0 mm
required spacing with side-by-side mounting at the side Connections/ Terminals	
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection	0 mm
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit	0 mm screw-type terminals
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	0 mm
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts	0 mm screw-type terminals screw-type terminals
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing	0 mm screw-type terminals screw-type terminals
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
required spacing with side-by-side mounting at the side connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts Electrical Safety	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts Electrical Safety protection class IP on the front according to IEC 60529	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) IP20
required spacing with side-by-side mounting at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts Electrical Safety	0 mm screw-type terminals screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14)

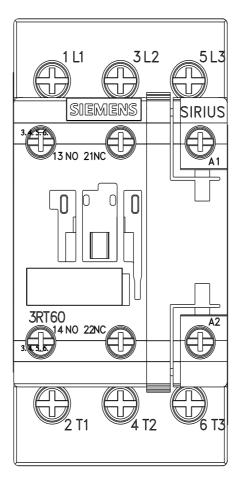


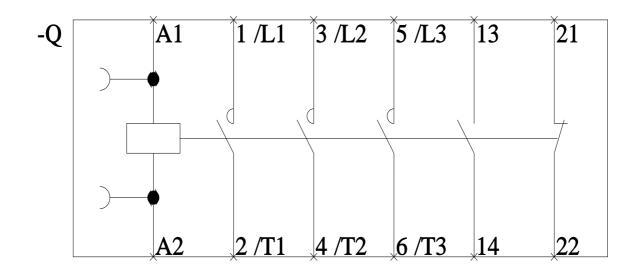
Further information











3/15/2024

#### Data sheet

### 3RT6026-1AG20



Contactor AC 110 V 50/60 HZ AC3 11 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

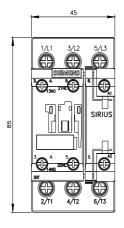
6/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	SO
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
<ul> <li>without load current share typical</li> </ul>	2.62 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
• at AC-3 rated value maximum	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	40 A
— at ambient temperature 60 °C rated value	35 A
● at AC-3	

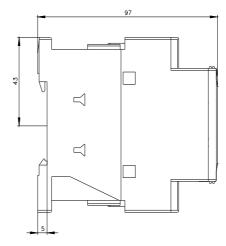
at 400 V rated value	25 A
- at 400 V rated value	25 A 13 A
- at 690 V rated value	13 A
• at AC-3e — at 400 V rated value	05 A
	25 A
— at 690 V rated value	13 A
connectable conductor cross-section in main circuit at AC- 1	
• at 60 °C minimum permissible	10 mm <sup>2</sup>
• at 40 °C minimum permissible	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
<ul> <li>at 400 V rated value</li> </ul>	9 A
• at 690 V rated value	9 A
operating power	
● at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V at 60 °C rated value	40 kW
● at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
● at AC-3e	
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-	
4	4 4 1444
at 400 V rated value	4.4 kW
at 690 V rated value	7.7 kW
no-load switching frequency	E 000 1/b
• at AC	5 000 1/h
<ul> <li>operating frequency</li> <li>at AC-1 maximum</li> </ul>	1 000 1/h
	750 1/h
at AC-3 maximum	
• at AC-3e maximum	750 1/h
at AC-4 maximum Control circuit/ Control	250 1/h
type of voltage of the control supply voltage	AC
	AC
control supply voltage at AC	110.1/
• at 50 Hz rated value	110 V
<ul><li>at 50 Hz rated value</li><li>at 60 Hz rated value</li></ul>	110 V 110 V
• at 50 Hz rated value	
at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of	
at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of     magnet coil at AC	110 V
at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of     magnet coil at AC         at 50 Hz	110 V 0.8 1.1
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> </ul>	110 V 0.8 1.1 0.85 1.1
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC <ul> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC <ul> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li>	110 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25 0.28

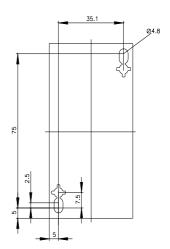
contact	-
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1A
operational current at DC-13	
at 24 V rated value	6 A
at 110 V rated value	1A
at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value	15 hp
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
<ul> <li>fastening method</li> </ul>	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>fastening method side-by-side mounting</li> </ul>	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing with side-by-side mounting at the side	0 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul> <li>solid or stranded</li> </ul>	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
	finance only for vertical contact from the front
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
touch protection on the front according to IEC 60529 Approvals Certificates	inger-sale, for vertical contact from the front
	inger-sale, for vertical contact from the front
Approvals Certificates	linger-sale, for vertical contact from the front
Approvals Certificates	<u>Confirmation</u>
Approvals Certificates	
Approvals Certificates	
Approvals Certificates General Product Approval	
Approvals Certificates General Product Approval	
Approvals Certificates General Product Approval	

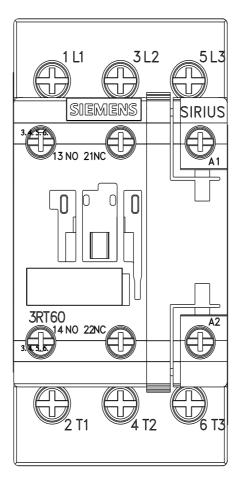


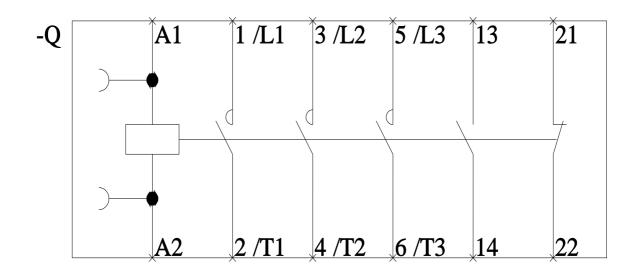
Further information











3/15/2024

#### Data sheet

### 3RT6026-1AN20



Contactor AC 220 V 50/60 HZ AC3 11 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

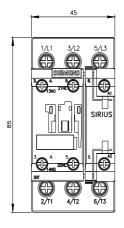
VIIS		
product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT6	
General technical data		
size of contactor	SO	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W	
<ul> <li>without load current share typical</li> </ul>	2.62 W	
type of calculation of power loss depending on pole	quadratic	
insulation voltage rated value	690 V	
degree of pollution	3	
surge voltage resistance rated value	6 kV	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at AC	8,3g / 5 ms, 5,3g / 10 ms	
shock resistance with sine pulse		
• at AC	13,5g / 5 ms, 8,3g / 10 ms	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000	
Substance Prohibitance (Date)	05/01/2012	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
during operation	-25 +60 °C	
during storage	-55 +80 °C	
Main circuit		
number of poles for main current circuit	3	
number of NO contacts for main contacts	3	
number of NC contacts for main contacts	0	
operating voltage		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
• at AC-3e rated value maximum	690 V	
operational current		
• at AC-1 up to 690 V		
<ul> <li>— at ambient temperature 40 °C rated value</li> </ul>	40 A	
— at ambient temperature 60 °C rated value	35 A	
• at AC-3		

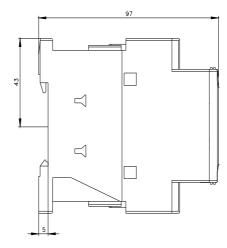
— at 400 V rated value	25 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	25 A
— at 690 V rated value	13 A
connectable conductor cross-section in main circuit at AC-	
1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	10 mm <sup>2</sup>
• at 40 °C minimum permissible	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	9 A
<ul> <li>at 690 V rated value</li> </ul>	9 A
operating power	
• at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V at 60 °C rated value	40 kW
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-	
4	
<ul> <li>at 400 V rated value</li> </ul>	4.4 kW
<ul> <li>at 690 V rated value</li> </ul>	7.7 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	200 00
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	220 V
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	0.00 1.1
	81 \/A
• at 50 Hz	81 VA
• at 50 Hz • at 60 Hz	81 VA 79 VA
at 50 Hz     at 60 Hz inductive power factor with closing power of the coil	79 VA
at 50 Hz     at 60 Hz  inductive power factor with closing power of the coil     at 50 Hz	79 VA 0.72
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	79 VA
at 50 Hz     at 60 Hz  inductive power factor with closing power of the coil     at 50 Hz     at 50 Hz     at 60 Hz  apparent holding power of magnet coil at AC	79 VA 0.72 0.74
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	79 VA 0.72 0.74 10.5 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	79 VA 0.72 0.74
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> </ul>	79 VA 0.72 0.74 10.5 VA 8.5 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> </ul>	79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	79 VA 0.72 0.74 10.5 VA 8.5 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul>	79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25

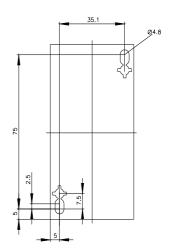
Environmont	
EMV other Environment	
General Product Approval	Confirmation
pprovals Certificates	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529	IP20
Electrical Safety	1000
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
for auxiliary contacts	$2 \times (0.5 - 1.5 \text{ mm}^2) 2 \times (0.75 - 0.5 \text{ mm}^2)$
type of connectable conductor cross-sections	
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
solid or stranded	$2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$
type of connectable conductor cross-sections for main contacts	0(4 0.5 mm <sup>2</sup> ) 0(0.5 40 mm <sup>2</sup> )
for auxiliary and control circuit	screw-type terminals
for main current circuit	screw-type terminals
type of electrical connection	
onnections/ Terminals	
required spacing with side-by-side mounting at the side	0 mm
depth	97 mm
width	45 mm
height	85 mm
side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward an backward by +/- 22.5° on vertical mounting surface
estallation/ mounting/ dimensions	+/ 100° rotation possible on visitizal mounting surfaces are to titled formed and
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
- with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
<ul> <li>with type of coordination 1 required</li> <li>with type of accignment 2 required</li> </ul>	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
for short-circuit protection of the main circuit	
design of the fuse link	
hort-circuit protection	
460/480 V rated value	
yielded mechanical performance [hp] for 3-phase AC motor at	15 hp
L/CSA ratings	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 220 V rated value	0.3 A
• at 110 V rated value	1 A
at 24 V rated value	6 A
operational current at DC-13	
at 220 V rated value	1A
at 110 V rated value	3 A
at 24 V rated value	6 A
operational current at DC-12	
at 690 V rated value	1A
at 200 V rated value     at 400 V rated value	3 A
operational current at AC-15 • at 230 V rated value	10 A
operational current at AC-12 maximum	10 A
contact	

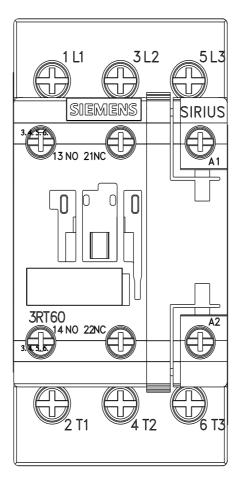


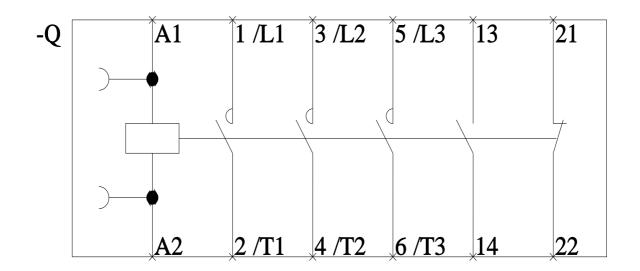
Further information











4/18/2024

#### Data sheet

### 3RT6026-1BB40



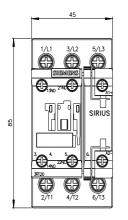
Contactor DC 24 V AC3 11 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

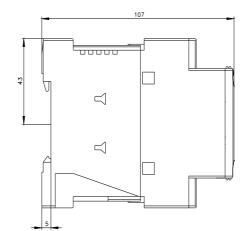
0/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	SO
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
<ul> <li>without load current share typical</li> </ul>	5.9 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	40 A
— at ambient temperature 60 °C rated value	35 A
• at AC-3	

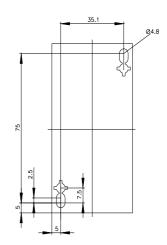
— at 400 V rated value	25 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	25 A
— at 690 V rated value	13 A
connectable conductor cross-section in main circuit at AC- 1	
• at 60 °C minimum permissible	10 mm²
at 40 °C minimum permissible	10 mm²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	9 A
at 690 V rated value	9 A
operating power	
• at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V at 60 °C rated value	40 kW
• at AC-3	
— at 230 V rated value	5.5 kW
— at 200 V rated value — at 400 V rated value	5.5 KVV 11 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC- 4	
<ul> <li>at 400 V rated value</li> </ul>	4.4 kW
at 690 V rated value	7.7 kW
no-load switching frequency	
• at AC	5 000 1/h
● at DC	1 500 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
	DC
type of voltage of the control supply voltage	
control supply voltage at DC rated value	24.14
	24 V
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	6 A
at 24 v rated value     at 110 V rated value	3A
at 220 V rated value	1 A
operational current at DC-13	
• at 24 V rated value	6 A
<ul> <li>at 110 V rated value</li> </ul>	1 A

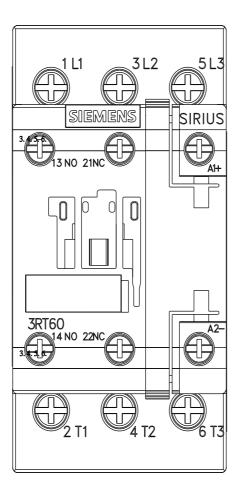
contact reliabil	lity of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings		
	ical performance [hp] for 3-phase AC mo	ptor at 15 hp
Short-circuit pro		
design of the f		
<ul> <li>for short-</li> </ul>	circuit protection of the main circuit	
— with	type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
— with	type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
	circuit protection of the auxiliary switch re	
Installation/ mou	Inting/ dimensions	
mounting posi		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening meth	od	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>side-by-s</li> </ul>	ide mounting	Yes
height		85 mm
width		45 mm
depth		107 mm
required spacing	g with side-by-side mounting at the side	0 mm
Connections/ Te	rminals	
type of electric	al connection	
<ul> <li>for main of</li> </ul>	current circuit	screw-type terminals
<ul> <li>for auxilia</li> </ul>	ary and control circuit	screw-type terminals
type of connecta	able conductor cross-sections for main co	ontacts
<ul> <li>solid or st</li> </ul>	tranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
<ul> <li>finely stra</li> </ul>	anded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
type of connec	table conductor cross-sections	
<ul> <li>for auxilia</li> </ul>	ary contacts	
— solie	d or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— fine	ly stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG</li> </ul>	cables for auxiliary contacts	2x (20 16), 2x (18 14)
Electrical Safety	/	
protection clas	s IP on the front according to IEC 605	<b>29</b> IP20
touch protection	on on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certif	ïcates	
General Produ	ict Approval	
	Confirmation	
. QP		
CSA		EG-Konf. CCC UL LIIL
EMV	other Dan	gerous Good
	Dali	
$\mathbf{\Delta}$	Confirmation Trans	sport Information
∕∧∖	·	
يي	•	
RGM		

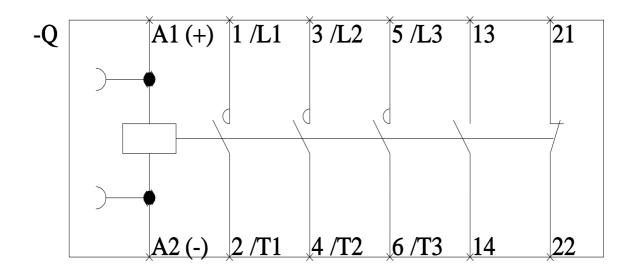
Further information











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#### Data sheet

### 3RT6027-1AM00

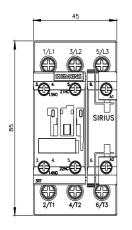


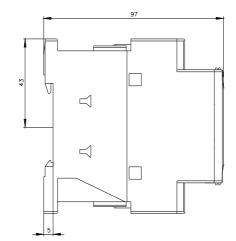
Contactor AC 220 V 50 HZ AC3 15 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

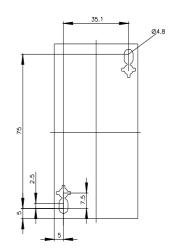
0/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.7 W
<ul> <li>without load current share typical</li> </ul>	2.45 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	50 A
— at ambient temperature 60 °C rated value	42 A
• at AC-3	

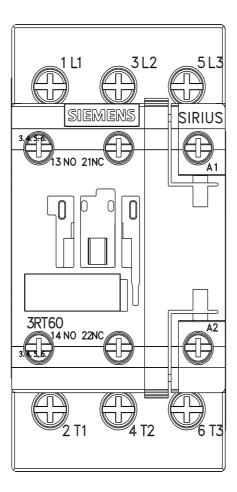
— at 400 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 690 V rated value	21 A
connectable conductor cross-section in main circuit at AC-	
1	
• at 60 °C minimum permissible	10 mm <sup>2</sup>
at 40 °C minimum permissible	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12 A
• at 690 V rated value	12 A
operating power	
• at AC-1	
— at 230 V rated value	16 kW
— at 230 V at 60 °C rated value	15.5 kW
— at 400 V at 60 °C rated value	27.5 kW
— at 690 V at 60 °C rated value	47.5 kW
● at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
- at 400 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-	10.5 KW
4	
<ul> <li>at 400 V rated value</li> </ul>	6 kW
at 690 V rated value	10.3 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	230 1/11
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
apparent pick-up power of magnet con at AC     o at 50 Hz	77 VA
inductive power factor with closing power of the coil	0.02
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	0.01/4
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 690 V rated value	1A

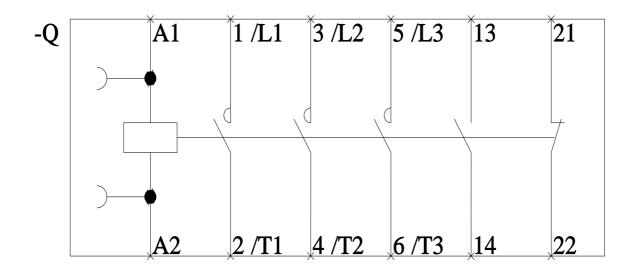
operational curre	nt at DC-12		
<ul> <li>at 24 V rate</li> </ul>	d value		6 A
<ul> <li>at 110 V rate</li> </ul>	ed value		3 A
<ul> <li>at 220 V rat</li> </ul>	ed value		1 A
operational curre	nt at DC-13		
<ul> <li>at 24 V rate</li> </ul>	d value		6 A
<ul> <li>at 110 V rate</li> </ul>	ed value		1 A
<ul> <li>at 220 V rate</li> </ul>			0.3 A
-	of auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings			
yielded mechanica 460/480 V rated va	al performance [hp] for 3-ph alue	ase AC motor at	20 hp
Short-circuit prote	ction		
design of the fus	e link		
<ul> <li>for short-cire</li> </ul>	cuit protection of the main c	ircuit	
— with ty	pe of coordination 1 require	ed	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
— with ty	pe of assignment 2 required	d	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
<ul> <li>for short-cire</li> </ul>	cuit protection of the auxilia	ry switch required	fuse gL/gG: 10 A
Installation/ mount	ing/ dimensions		
mounting positio	-		+/-180° rotation possible on vertical mounting surface; can be tilted forward and
fastening method			backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
			Yes
side-by-side	; mounting		85 mm
height			45 mm
width			
depth	with aida by aida mounting a	at the eide	97 mm
	vith side-by-side mounting a		0 mm
Connections/ Term			
type of electrical			
<ul> <li>for main cur</li> </ul>			screw-type terminals
· · · · · ·	and control circuit	6	screw-type terminals
51	le conductor cross-sections	for main contacts	0 = (4 - 0.5 - 2 = 2) = (0.5 - 40 - 2 = 2)
<ul> <li>solid or stra</li> </ul>			2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
	led with core end processin		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
	ble conductor cross-secti	ons	
<ul> <li>for auxiliary</li> </ul>			
	or stranded		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
-	stranded with core end proc	essing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
	bles for auxiliary contacts		2x (20 16), 2x (18 14)
Electrical Safety			1500
-	IP on the front according t		IP20
-	on the front according to	IEC 60529	finger-safe, for vertical contact from the front
Approvals Certifica			
General Product	Approval		
(Ch	"	Confirmatio	
			<u>w</u> w HI
CSA	EG-Konf.		
EMV	other	Environment	
<b>A</b>	<b>Confirmation</b>	Environmental	
		firmations	
D.G.MI			
Further information	h		











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#### Data sheet

### 3RT6027-1AN20



Contactor AC 220 V 50/60 HZ AC3 15 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

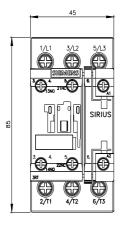
0/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.7 W
<ul> <li>without load current share typical</li> </ul>	2.62 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
● at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	50 A
— at ambient temperature 60 °C rated value	42 A
• at AC-3	

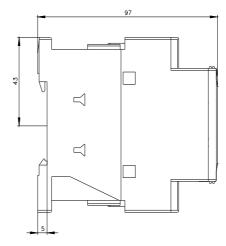
— at 400 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 690 V rated value	21 A
connectable conductor cross-section in main circuit at AC-	
1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	10 mm <sup>2</sup>
• at 40 °C minimum permissible	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12 A
<ul> <li>at 690 V rated value</li> </ul>	12 A
operating power	
• at AC-1	
— at 230 V rated value	16 kW
— at 230 V at 60 °C rated value	15.5 kW
- at 400 V at 60 °C rated value	27.5 kW
— at 690 V at 60 °C rated value	47.5 kW
• at AC-3	7.5114
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 690 V rated value	18.5 kW
● at AC-3e	
— at 400 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	6 kW
<ul> <li>at 690 V rated value</li> </ul>	10.3 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
<ul> <li>at AC-3e maximum</li> </ul>	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
Control circuit/ Control type of voltage of the control supply voltage	250 1/h AC
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	AC
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value	AC 220 V
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value	AC
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	AC 220 V 220 V
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz	AC 220 V 220 V 0.8 1.1
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	AC 220 V 220 V
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz	AC 220 V 220 V 0.8 1.1
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz	AC 220 V 220 V 0.8 1.1
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC	AC 220 V 220 V 0.8 1.1 0.85 1.1
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA
Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 50 Hz         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         apparent holding power of magnet coil at AC         • at 50 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 60 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor of magnet coil at AC         • at 60 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         apparent holding power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         apparent holding power of magnet coil at AC         • at 60 Hz         at 60 Hz         • at 60	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         apparent holding power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         apparent holding power of magnet coil at AC         • at 50 Hz         • at 60 Hz         at 60 Hz         • at 60 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         apparent holding power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with the holding power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor with the holding power of the coil         • at 60 Hz         inductive power factor with the holding power of the coil         • at 60 Hz	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25
Control circuit/ Control         type of voltage of the control supply voltage         control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         operating range factor control supply voltage rated value of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with closing power of the coil         • at 50 Hz         • at 60 Hz         apparent holding power of magnet coil at AC         • at 50 Hz         • at 60 Hz         apparent holding power of magnet coil at AC         • at 50 Hz         • at 60 Hz         inductive power factor with the holding power of the coil         • at 50 Hz         • at 60 Hz         inductive power factor with the holding power of the coil         • at 60 Hz         • at 60 Hz         • at 60 Hz         • at 60 Hz         • at 60 Hz <td>AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25 0.28</td>	AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25 0.28

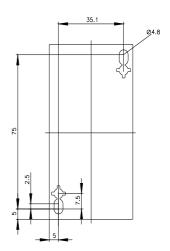
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1A
operational current at DC-13	
• at 24 V rated value	6 A
at 110 V rated value	1 A
at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings	
vielded mechanical performance [hp] for 3-phase AC motor at	20 hp
460/480 V rated value	20119
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>with type of coordination 1 required</li> </ul>	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
<ul> <li>fastening method</li> </ul>	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>fastening method side-by-side mounting</li> </ul>	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing with side-by-side mounting at the side	0 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
	Solew-type terminals
type of connectable conductor cross-sections for main contacts	
type of connectable conductor cross-sections for main contacts • solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or stranded     inely stranded with core end processing     type of connectable conductor cross-sections	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or stranded     inely stranded with core end processing     type of connectable conductor cross-sections     o for auxiliary contacts	2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
solid or stranded     inely stranded with core end processing     type of connectable conductor cross-sections     for auxiliary contacts         — solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
solid or stranded     inely stranded with core end processing      type of connectable conductor cross-sections     o for auxiliary contacts         — solid or stranded         — finely stranded with core end processing	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
solid or stranded     inely stranded with core end processing      type of connectable conductor cross-sections     o for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         of rauxiliary contacts	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
• solid or stranded     • finely stranded with core end processing      type of connectable conductor cross-sections     • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts      Electrical Safety	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14)
• solid or stranded     • finely stranded with core end processing  type of connectable conductor cross-sections      • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts  Electrical Safety protection class IP on the front according to IEC 60529	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) IP20
• solid or stranded     • finely stranded with core end processing  type of connectable conductor cross-sections     • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts  Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) IP20
• solid or stranded     • finely stranded with core end processing  type of connectable conductor cross-sections      • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts  Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) IP20
• solid or stranded     • finely stranded with core end processing  type of connectable conductor cross-sections     • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts  Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) IP20
• solid or stranded     • finely stranded with core end processing  type of connectable conductor cross-sections     • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts  Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates	2x (1 2.5 mm²), 2x (2.5 10 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         IP20         finger-safe, for vertical contact from the front
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Electrical Safety         <ul> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul> </li> <li>Approvals Certificates         <ul> <li>General Product Approval</li> <li>(())</li> </ul> </li> </ul>	2x (1 2.5 mm²), 2x (2.5 10 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         IP20         finger-safe, for vertical contact from the front         Confirmation         E Confirmation
• solid or stranded     • finely stranded with core end processing  type of connectable conductor cross-sections     • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts  Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates	2x (1 2.5 mm²), 2x (2.5 10 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         IP20         finger-safe, for vertical contact from the front         Confirmation         E Confirmation
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Electrical Safety         <ul> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul> </li> <li>Approvals Certificates         <ul> <li>General Product Approval</li> <li>(())</li> </ul> </li> </ul>	2x (1 2.5 mm²), 2x (2.5 10 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         IP20         finger-safe, for vertical contact from the front <b>Confirmation</b>
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>Electrical Safety         <ul> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul> </li> <li>Approvals Certificates         <ul> <li>General Product Approval</li> <li>(())</li> </ul> </li> </ul>	2x (1 2.5 mm²), 2x (2.5 10 mm²)         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 1.5 mm²), 2x (0.75 2.5 mm²)         2x (20 16), 2x (18 14)         IP20         finger-safe, for vertical contact from the front         Confirmation         Confirmation

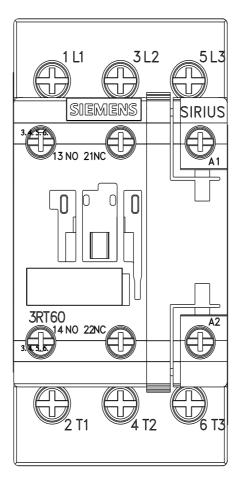


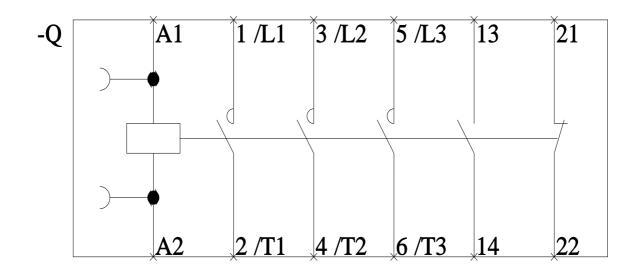
Further information











3/13/2024

#### Data sheet

### 3RT6028-1AN20



Contactor AC 220V 50/60 HZ AC3 18,5 kW 400 V AUX contacts 1 NO +1 NC 3-pole, size S0 screw terminal

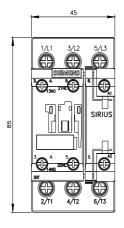
4/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT6
General technical data	
size of contactor	S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
<ul> <li>without load current share typical</li> </ul>	2.62 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	50 A
— at ambient temperature 60 °C rated value	42 A
• at AC-3	

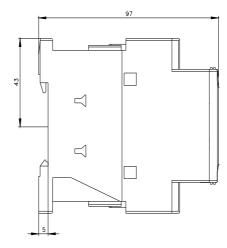
— at 400 V rated value	38 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 A
— at 690 V rated value	21 A
connectable conductor cross-section in main circuit at AC-	
1	
<ul> <li>at 60 °C minimum permissible</li> </ul>	10 mm <sup>2</sup>
• at 40 °C minimum permissible	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12 A
• at 690 V rated value	12 A
operating power	
• at AC-1	
— at 230 V rated value	16 kW
— at 230 V at 60 °C rated value	15.5 kW
- at 400 V at 60 °C rated value	27.5 kW
— at 690 V at 60 °C rated value	47.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
● at AC-3e	
— at 400 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	6 kW
<ul> <li>at 690 V rated value</li> </ul>	10.3 kW
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-3 maximum	750 1/h
	750 1/11
a at AC 2a maximum	750.4/b
• at AC-3e maximum	750 1/h
• at AC-4 maximum	750 1/h 250 1/h
at AC-4 maximum Control circuit/ Control	250 1/h
at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage	
at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	250 1/h AC
tat AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     tota 50 Hz rated value	250 1/h AC 220 V
tat AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     at 50 Hz rated value     at 60 Hz rated value	250 1/h AC
• at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     • at 50 Hz rated value     • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	250 1/h AC 220 V 220 V
type of voltage of the control supply voltage     control supply voltage at AC         e at 50 Hz rated value         operating range factor control supply voltage rated value of         magnet coil at AC         e at 50 Hz	250 1/h AC 220 V 220 V 220 V
• at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     • at 50 Hz rated value     • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	250 1/h AC 220 V 220 V
type of voltage of the control supply voltage     control supply voltage at AC         e at 50 Hz rated value         operating range factor control supply voltage rated value of         magnet coil at AC         e at 50 Hz	250 1/h AC 220 V 220 V 220 V
at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of magnet coil at AC     at 50 Hz     at 60 Hz	250 1/h AC 220 V 220 V 220 V
type of voltage of the control supply voltage     control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         • at 50 Hz         • at 50 Hz         • at 60 Hz         • at 60 Hz         • at 60 Hz	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1
e at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     e at 50 Hz rated value     operating range factor control supply voltage rated value of magnet coil at AC     e at 50 Hz     e at 60 Hz apparent pick-up power of magnet coil at AC     e at 50 Hz	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 81 VA
tat AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC         • at 50 Hz rated value         • at 60 Hz rated value         • at 50 Hz         • at 50 Hz         • at 60 Hz apparent pick-up power of magnet coil at AC         • at 50 Hz         • at 50 Hz         • at 60 Hz	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 81 VA
type of voltage of the control supply voltage     type of voltage of the control supply voltage     control supply voltage at AC         e at 50 Hz rated value         operating range factor control supply voltage rated value of         magnet coil at AC         e at 50 Hz         e at 60 Hz         e at 60 Hz         e at 60 Hz         e at 50 Hz         e at 60 Hz         e at 60 Hz         e at 60 Hz	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA
at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC     at 50 Hz rated value     at 60 Hz rated value     operating range factor control supply voltage rated value of magnet coil at AC     at 50 Hz     at 60 Hz apparent pick-up power of magnet coil at AC     at 50 Hz     at 60 Hz     at 60 Hz     at 60 Hz     at 50 Hz     at 60 Hz     at 50 Hz     at 60 Hz	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72
tat AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC      at 50 Hz rated value  operating range factor control supply voltage rated value of magnet coil at AC      at 50 Hz      at 60 Hz  apparent pick-up power of magnet coil at AC      at 50 Hz      at 60 Hz  inductive power factor with closing power of the coil      at 50 Hz      at 60 Hz	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72
<ul> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> </ul>	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74
<ul> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz</li> <li>at 50 Hz <ul> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> </li>	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA
<ul> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>at 60 Hz</li>	250 1/h AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA
<ul> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> </ul>	250 1/h AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA
<ul> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with the holding power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> </ul>	250 1/h AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA
<ul> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li>	250 1/h AC 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA
<ul> <li>at AC-4 maximum</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at AC <ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> <li>operating range factor control supply voltage rated value of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> <li>inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>apparent holding power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at 60 Hz</li>	250 1/h AC 220 V 220 V 220 V 0.8 1.1 0.85 1.1 81 VA 79 VA 0.72 0.74 10.5 VA 8.5 VA 0.25 0.28

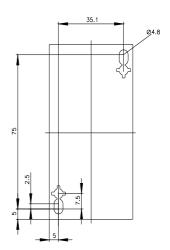
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	6 A
• at 110 V rated value	3 A
at 220 V rated value	1 A
operational current at DC-13	
at 24 V rated value	6 A
• at 110 V rated value	1 A
at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	· · ··································
yielded mechanical performance [hp] for 3-phase AC motor a 460/480 V rated value	at 25 hp
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
<ul> <li>for short-circuit protection of the auxiliary switch require</li> </ul>	
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
······································	backward by +/- 22.5° on vertical mounting surface
<ul> <li>fastening method</li> </ul>	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
<ul> <li>fastening method side-by-side mounting</li> </ul>	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing with side-by-side mounting at the side	0 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections for main contact	sts
solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
General Product Approval	
General Product Approval	
General Product Approval	
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Confirmation	EHE
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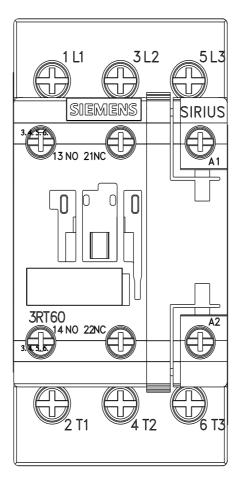


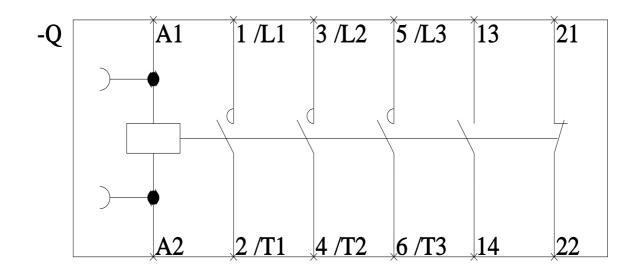
Further information











3/14/2024