SIEMENS

Data sheet 7KT0110



Power Monitoring Device Panel instrument for voltage and current LED display Vaux: 95V to 240V AC x/1 or 5 A, Class 1

Measurements			
measuring procedure			
for voltage measurement	True RMS		
for current measurement	True RMS		
type of measured value detection	complete		
voltage curve	Sinusoidal or distorted		
measurable line frequency			
initial value initial value	45 Hz		
• full-scale value	65 Hz		
Supply voltage			
design of the power supply	SMPS power supply		
type of voltage of the supply voltage	AC		
Degree of protection protection class			
protection class IP on the front	IP54		
protection class IP of the terminal	IP20		
Suitability			
suitability for operation	Installation in stationary panels in closed rooms		
Product Functions			
product function			
 voltage measurement 	Yes		
current measurement	Yes		
Display and operation			
design of the display	LED		
height of the display	37 mm		
width of the display	43 mm		
color of the background of the display	Black		
national language on the display screen is supported	EN		
number of keys	2		
Fault limits			
reference condition for metering accuracy	according to IEC61557-12		
formula for relative total measurement inaccuracy			
 for measured variable voltage 	Class 1 acc. to IEC 61557-12		
 for measured variable current 	Class 1 acc.to IEC 61557-12		
Measuring inputs			
measurable supply voltage between (PE)N and L at AC maximum rated value	240 V		
measurable supply voltage between (PE)N and L at AC			
• minimum	11 V		
maximum	300 V		
measurable supply voltage between the line conductors at AC	415 V		

maximum rated value					
measurable supply voltage between the line condu	uctors at AC				
• minimum	2010.0 017.10	19 V			
maximum		519 V			
voltage measuring range extension with external voltage		Yes			
transformers					
line conductors and neutral conductors internal resistance for voltage measurement		1.12 ΜΩ			
measuring category for voltage measurement		CAT III			
measurable current					
 1 at AC rated value 		1 A			
 2 at AC rated value 		5 A			
relative measurable current at AC					
• minimum		1 %			
• maximum		120 %	120 %		
current measuring range extension with external c transformers	urrent	Yes			
apparent power consumption for current measurer measuring range 5 A per phase	ment with	3 VA			
measuring category for current measurement		CAT III			
Connections					
type of electrical connection					
 at the measurement inputs for voltage 		screw-typ	e terminals		
at the measurement inputs for current		screw-typ	e terminals		
Mechanical Design		7.			
fastening method standard rail mounting		No			
size of Power Monitoring Device		size 96			
height		99 mm			
width		99 mm			
depth		52 mm			
installation depth		49 mm			
cutout height		92 mm			
cutout width		92 mm			
net weight		2 070 g			
mounting position		Vertical			
Environmental conditions		Vortion			
ambient temperature during operation		-10 °C			
• minimum		55 °C			
maximum ambient temperature during storage		33 0			
		-20 °C			
• minimum		-20°C			
maximum relative humidity at 25 °C without condensation during operation		85 %			
maximum		2 000 m			
installation altitude at height above sea level maximum		2 000 m			
degree of pollution Approvals Certificates		2			
	-41			F	
General Product Approval	other			Environment	
Confirmation FI	Confirmatio	<u>on</u>	Miscellaneous	Environmental Confirmations	

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (catalogues, leaflets,...)

http://www.siemens.com/energy-automation

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KT0110

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

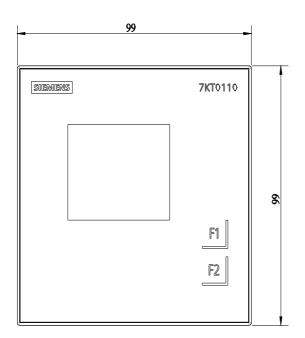
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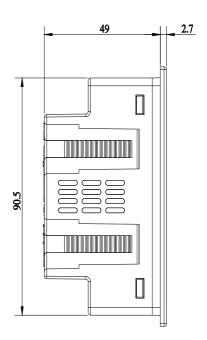
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

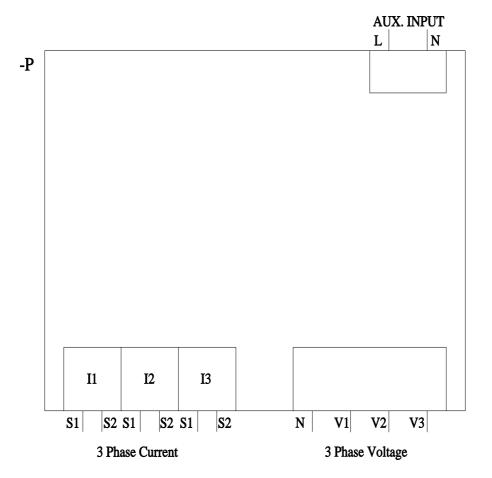
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT0110

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications







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Measurements			
measuring procedure			
for voltage measurement	True RMS		
for current measurement	True RMS		
type of measured value detection	complete		
voltage curve	Sinusoidal or distorted		
measurable line frequency			
• initial value	45 Hz		
full-scale value	65 Hz		
operating mode for measured value detection automatic line frequency detection	Yes		
Supply voltage			
design of the power supply	SMPS power supply		
type of voltage of the supply voltage	AC		
Degree of protection protection class			
protection class IP on the front	IP54		
protection class IP of the terminal	IP20		
Suitability			
suitability for operation	Installation in stationary panels in closed rooms		
Product Functions			
product function			
 voltage measurement 	Yes		
 current measurement 	Yes		
 frequency measurement 	Yes		
Display and operation			
design of the display	LED		
height of the display	53 mm		
width of the display	47 mm		
color of the background of the display	Black		
national language on the display screen is supported	EN		
number of keys	2		
Fault limits			
reference condition for metering accuracy	according to IEC61557-12		
formula for relative total measurement inaccuracy			
• for measured variable voltage	Class 1 acc. to IEC 61557-12		
 for measured variable current 	Class 1 acc.to IEC 61557-12		
Measuring inputs			
measurable supply voltage between (PE)N and L at AC maximum rated value	240 V		
measurable supply voltage between (PE)N and L at AC			

• minimum	11 V
• maximum	300 V
measurable supply voltage between the line conductors at AC maximum rated value	415 V
measurable supply voltage between the line conductors at AC	
• minimum	19 V
• maximum	519 V
voltage measuring range extension with external voltage transformers	Yes
line conductors and neutral conductors internal resistance for voltage measurement	1.12 ΜΩ
measuring category for voltage measurement	CAT III
measurable current	
1 at AC rated value	1 A
• 2 at AC rated value	5 A
relative measurable current at AC	
• minimum	1 %
maximum	120 %
current measuring range extension with external current transformers	Yes
apparent power consumption for current measurement with measuring range 5 A per phase	3 VA
measuring category for current measurement	CAT III
Connections	
type of electrical connection	
 at the measurement inputs for voltage 	screw-type terminals
at the measurement inputs for current	screw-type terminals
Mechanical Design	
fastening method standard rail mounting	No
size of Power Monitoring Device	size 96
height	99 mm
width	99 mm
depth	52 mm
installation depth	49 mm
cutout height	92 mm
cutout width	92 mm
net weight	2 230 g
mounting position	Vertical
Environmental conditions	Vertical
ambient temperature during operation	40.00
• minimum	-10 °C
• maximum	55 °C
ambient temperature during storage	00.00
• minimum	-20 °C
• maximum	75 °C
relative humidity at 25 °C without condensation during operation maximum	85 %
installation altitude at height above sea level maximum	2 000 m
degree of pollution	2
Approvals Certificates	
General Product Approval other	Environment
Confirmation Confirma	tion Miscellaneous Environmental Con- firmations

Further information

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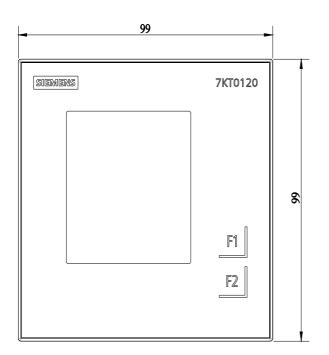
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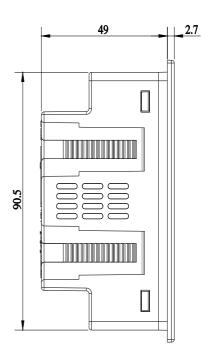
CAx-Online-Generator

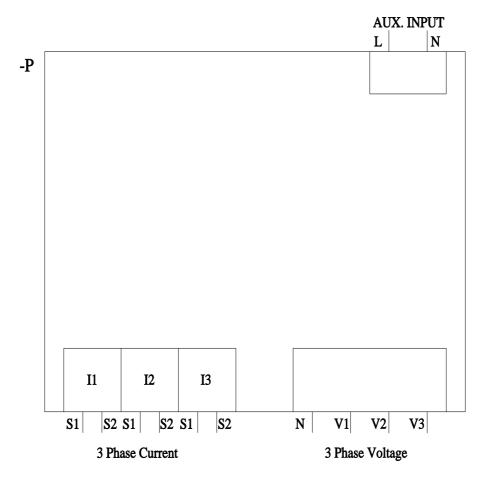
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Tender specifications

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