

Product data sheet

HDR3S251P6

Characteristics

Thermal overload relay, HDR3s-25, 1.0..1.6 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	1...1.6 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S2513

Characteristics

Thermal overload relay, HDR3s-25, 9..13 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	9...13 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S256

Characteristics

Thermal overload relay, HDR3s-25, 4..6 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	4...6 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S252P5

Characteristics

Thermal overload relay, HDR3s-25, 1.6..2.5 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	1.6...2.5 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S2525

Characteristics

Thermal overload relay, HDR3s-25, 17..25 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	17...25 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S251

Characteristics

Thermal overload relay, HDR3s-25, 0.63..1 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	0.63...1 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S2518

Characteristics

Thermal overload relay, HDR3s-25, 12..18 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	12...18 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S25P16

Characteristics

Thermal overload relay, HDR3s-25, 0.1..0.16 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	0.1...0.16 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S3832

Characteristics

Thermal overload relay, HDR3s-38, 23..32 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	23...32 A
Frame size	38A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	80 mm
Width	56 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S25P4

Characteristics

Thermal overload relay, HDR3s-25, 0.25..0.4 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	0.25...0.4 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S258

Characteristics

Thermal overload relay, HDR3s-25, 5.5..8 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	5.5...8 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9310

Characteristics

Thermal overload relay, HDR3s-93, 7..10 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	7...10 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9332

Characteristics

Thermal overload relay, HDR3s-93, 23..32 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	23...32 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S2510

Characteristics

Thermal overload relay, HDR3s-25, 7..10 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	7...10 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S25P25

Characteristics

Thermal overload relay, HDR3s-25, 0.16..0.25 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	0.16...0.25 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S3840

Characteristics

Thermal overload relay, HDR3s-38, 30..40 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	30...40 A
Frame size	38A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	80 mm
Width	56 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %



Product data sheet

HDR3S9318

Characteristics

Thermal overload relay, HDR3s-93, 12..18 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	12...18 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9340

Characteristics

Thermal overload relay, HDR3s-93, 30..40 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	30...40 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9380

Characteristics

Thermal overload relay, HDR3s-93, 63..80 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	63...80 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S254

Characteristics

Thermal overload relay, HDR3s-25, 2.5..4 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	2.5...4 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9365

Characteristics

Thermal overload relay, HDR3s-93, 48..65 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	48...65 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9313

Characteristics

Thermal overload relay, HDR3s-93, 9..13 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	9...13 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %



Product data sheet

HDR3S9350

Characteristics

Thermal overload relay, HDR3s-93, 37..50 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	37...50 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9393

Characteristics

Thermal overload relay, HDR3s-93, 80..93 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	80...93 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S25P63

Characteristics

Thermal overload relay, HDR3s-25, 0.4..0.63 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	0.4...0.63 A
Frame size	25A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	67 mm
Width	45 mm
Depth	95 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9325

Characteristics

Thermal overload relay, HDR3s-93, 17..25 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	17...25 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S9370

Characteristics

Thermal overload relay, HDR3s-93, 55..70 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	55...70 A
Frame size	93A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	660 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	83 mm
Width	72 mm
Depth	119 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S630400F

Characteristics

Thermal overload relay, HDR3S-630/F 290..400 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	290...400 A
Frame size	630A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	171 mm
Width	150 mm
Depth	181 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S630200F

Characteristics

Thermal overload relay, HDR3S-630/F 145..200 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	145...200 A
Frame size	630A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	171 mm
Width	150 mm
Depth	181 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S630250F

Characteristics

Thermal overload relay, HDR3S-630/F 180..250 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	180...250 A
Frame size	630A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	171 mm
Width	150 mm
Depth	181 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S185150

Characteristics

Thermal overload relay, HDR3S-185 120..150 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	120...150 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S185160

Characteristics

Thermal overload relay, HDR3S-185 130..160 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	130...160 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S18580

Characteristics

Thermal overload relay, HDR3S-185 63..80 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	63...80 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %



Product data sheet

HDR3S18595

Characteristics

Thermal overload relay, HDR3S-185 75..95 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	75...95 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S185185

Characteristics

Thermal overload relay, HDR3S-185 150..185 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	150...185 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S185115

Characteristics

Thermal overload relay, HDR3S-185 90..115 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	90...115 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[I _{th}] conventional free air thermal current	5 A
Local signalling	Trip indicator
[I _e] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[U _i] rated insulation voltage	690 V
[U _{imp}] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %



Product data sheet

HDR3S18565

Characteristics

Thermal overload relay, HDR3S-185 48..65 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	48...65 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S185135

Characteristics

Thermal overload relay, HDR3S-185 105..135 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	105...135 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %



Product data sheet

HDR3S630630F

Characteristics

Thermal overload relay, HDR3S-630/F 460..630 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	460...630 A
Frame size	630A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	171 mm
Width	150 mm
Depth	181 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S630480F

Characteristics

Thermal overload relay, HDR3S-630/F 350..480 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	350...480 A
Frame size	630A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[I _{th}] conventional free air thermal current	5 A
Local signalling	Trip indicator
[I _e] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[U _i] rated insulation voltage	690 V
[U _{imp}] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	171 mm
Width	150 mm
Depth	181 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %



Product data sheet

HDR3S18570

Characteristics

Thermal overload relay, HDR3S-185 55..70 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	55...70 A
Frame size	185A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[I _{th}] conventional free air thermal current	5 A
Local signalling	Trip indicator
[I _e] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[U _i] rated insulation voltage	690 V
[U _{imp}] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	103 mm
Width	105 mm
Depth	132 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %

Product data sheet

HDR3S630320F

Characteristics

Thermal overload relay, HDR3S-630/F 230..320 A



Main

Range of product	HDR3s
Product or component type	Thermal overload relay
Device application	Motor protection
Thermal protection adjustment range	230...320 A
Frame size	630A

Complementary

Protection type	Overload Phase failure
Reset	Automatic reset Manual reset
Control type	Test button Stop button
[Ith] conventional free air thermal current	5 A
Local signalling	Trip indicator
[Ie] rated operational current	1.57 A at 230 V AC-15 0.9 A at 400 V AC-15 0.14 A at 230 V DC-13
[Ui] rated insulation voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Utilisation category	AC-15 DC-13
Poles description	3P
Height	171 mm
Width	150 mm
Depth	181 mm

Environment

Installation category	III
Pollution degree	3
Ambient air temperature for operation	-5...40 °C
Ambient air temperature for storage	-25...55 °C
Operating altitude	2000 m
Standards	IEC 60947-4-1

Product certifications

CB
CE
SEMKO

IP degree of protection

IP20

Relative humidity

0...95 %
