



Overload relay 40...50 A size S2, class 10 for motor protection for mounting onto contactors main circuit: screw terminal AUX. circuit: screw terminal manual automatic reset

product brand name	SIRIUS
product designation	Thermal overload relay
product type designation	3RU5
General technical data	
size of contactor can be combined company-specific	S2
power loss [W] total typical	9 W
power loss [W] for rated value of the current at AC in hot operating state	15.6 W
• per pole	5.2 W
type of calculation of power loss current-dependent	quadratic
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	8 g / 10 ms
Substance Prohibitance (day/month/year)	07/01/2006
Net Weight	0.32 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-20 ... +70 °C
• during transport	-55 ... +80 °C
relative humidity during operation	0 ... 100 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	40 ... 50 A
operating voltage rated value	690 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	50 A
Auxiliary circuit	
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 230 V	2 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 110 V	0.22 A
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal
Short-circuit protection	

design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 6 A, quick: 10 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back
fastening method	Contacting mounting
height	105 mm
width	55 mm
depth	118 mm
required spacing for grounded parts at the side	6 mm

Connections/ Terminals	
type of electrical connection	
<ul style="list-style-type: none"> for main current circuit for auxiliary and control circuit 	screw-type terminals screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections for main contacts	
<ul style="list-style-type: none"> solid or stranded finely stranded with core end processing 	2x (0.75 ... 16 mm²), 2x (0.75 ... 2.5 mm²), 1x (0.75 ... 35 mm²) 2x (0.75 ... 16 mm²), 0.75 ... 25 mm²
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing for AWG cables for auxiliary contacts 	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)
tightening torque for main contacts with screw-type terminals	3 ... 5 N·m

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	Maritime application	other



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[Confirmation](#)

other	Environment
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[Confirmation](#)



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<https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN>



