

Reference: 3RU1146-4LD0

OVERLOAD RELAY 70...90 A FOR MOTOR PROTECTION SIZE S3, CLASS 10 FOR CONT. MOUNTING MAIN CIRC.: SCREW CONN. AUX. CIRC.: SPRING-LOADED TERM. MANUAL-AUTOMATIC-RESET

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product brand name	SIRIUS	
Product designation	thermal overload relay	
General technical data:		
Size of overload relay	S3	
Size of contactor can be combined company-specific	S3	
Power loss [W] total typical	16.5 W	
Insulation voltage with degree of pollution 3 rated value	1 000 V	
Surge voltage resistance rated value	8 kV	
Protection class IP		
on the front	IP20	
Shock resistance	8g / 10 ms	
Type of protection	DMT 98 ATEX G 001	
Protection against electrical shock	finger-safe	
Equipment marking acc. to DIN EN 81346-2	F	
Ambient conditions:		
Installation altitude at height above sea level maximum	2 000 m	
Ambient temperature		
during operation	-20 +70 °C	
during storage	-55 +80 °C	
during transport	-55 +80 °C	
Relative humidity during operation	100 %	

Main circuit:	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current- dependent overload release	70 90 A
Operating voltage	
at AC-3 rated value maximum	1 000 V
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	1
Number of NO contacts	
for auxiliary contacts	1
Number of CO contacts	
for auxiliary contacts	0
Operating current of auxiliary contacts at AC-15	
at 24 V	3 A
at 110 V	3 A
at 120 V	3 A
at 125 V	3 A
at 230 V	2 A
at 400 V	1 A
Operating current of auxiliary contacts at DC-13	
at 24 V	1 A
at 110 V	0.22 A
at 125 V	0.22 A
at 220 V	0.11 A
Protective and monitoring functions:	
Trip class	CLASS 10
Short-circuit protection	
Design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 250 A
— with type of assignment 2 required	gG: 160 A
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
Mounting type	direct mounting
Height	120 mm

Depth 140 mm Required spacing with side-by-side mounting - forwards 0 mm - Backwards 0 mm - upwards 0 mm - downwards 0 mm - at the side 0 mm for grounded parts 0 mm - Backwards 0 mm - upwards 0 mm - at the side 6 mm - downwards 0 mm for live parts 0 mm - flowards 0 mm - upwards 0 mm - downwards 0 mm - flowards 0 mm - downwards 0 mm - flowards 0 mm - flowards 0 mm - flowards 0 mm - flowards 0 mm	Witd>	70 mm
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	— finely stranded without core end processing	2x (0.5 1.5 mm²)

2x (20 ... 14)