

Reference: 3RU1146-4LB0

OVERLOAD RELAY, 70...90 A, 1NO+1NC, SIZE S3, CLASS 10, FOR CONTACTOR MOUNTING

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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		

Witd>	70 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				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— at the side	6 mm			
— downwards	0 mm			
for live parts				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	6 mm			
Connections/Terminals:				
Product function				
removable terminal for auxiliary and control circuit	No			
Type of electrical connection				
for main current circuit	screw-type terminals			
for auxiliary and control current circuit	screw-type terminals			
Type of connectable conductor cross-sections				
for main contacts				
— solid	2x (2.5 16 mm²)			
— stranded	2x (10 50 mm²), 10 70 mm²			
— finely stranded with core end processing	2x (2.5 35 mm²), 2.5 50 mm²			
at AWG conductors for main contacts	2x (10 1/0), 1x (10 2/0)			
Type of connectable conductor cross-sections				
for auxiliary contacts				
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14)			