SIEMENS



Reference: 3RU1146-4MB0

OVERLOAD RELAY 80...100 A FOR MOTOR PROTECTION SIZE S3, CLASS 10 FOR CONTACTOR MOUNTING MAIN CIRCUIT: SCREW CONN. AUX. CIRCUIT: SCREW CONN. MANUAL-AUTOMATIC-RESET

Buy it at Electric Automation Network



product brand name	SIRIUS			
Product designation	thermal overload relay			
General technical data:				
Size of overload relay	53			
Size of contactor can be combined company-specific	53			
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	80 100 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: 200 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)		