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

General technical details:				
product brand name		SIRIUS		
product designation		thermal overload relay		
Protection class IP / on the front		IP20		
Insulation voltage / with degree of pollution 3 / rated value	V	1,000		
Installation altitude / at a height over sea level / maximum	m	2,000		
Ambient temperature				
during operating	°C	-20 +70		
during storage	°C	-55 +80		
during transport	°C	-55 +80		
Relative humidity / during operating phase / maximum	%	100		
Resistance against shock		8g / 10 ms		
Impulse voltage resistance / rated value	kV	8		
Active power loss / total / typical	W	16.5		
Item designation				
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F		
according to DIN EN 61346-2		F		
Operating current / of the fuse link / rated value	А	200		
Trip class		CLASS 10		
Type of assignement		2		
type of protection		DMT 98 ATEX G 001		
Size of overload relay		S3		
Size of the contactor / can be combined / company-specific		S3		
Protection against electrical shock		finger-safe		
Main circuit:				
Number of poles / for main current circuit		3		
Operating voltage / at AC-3 / rated value				
• maximum	V	1,000		
Service power / at AC-3				

• at 400 V	kW	45		
Adjustable response current				
• of the current-dependent overload release	А	80 100		
Auxiliary circuit:				
Contact reliability / of the auxiliary contacts		acceptability for PLC control (17 V, 5 mA)		
Number of NC contacts		1		
Number of NO contacts		1		
Number of change-over switches		0		
Operating current / of the auxiliary contacts / at AC-15				
• at 24 V	А	3		
• at 110 V	А	3		
• at 120 V	А	3		
• at 125 V	А	3		
• at 230 V	А	2		
• at 400 V	А	1		
Operating current / of the auxiliary contacts / at DC-13				
• at 24 V	А	1		
• at 110 V	А	0.22		
• at 125 V	А	0.22		
• at 220 V	А	0.11		

Short-circuit:

Design of the fuse link / for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 6 A, quick: 10 A

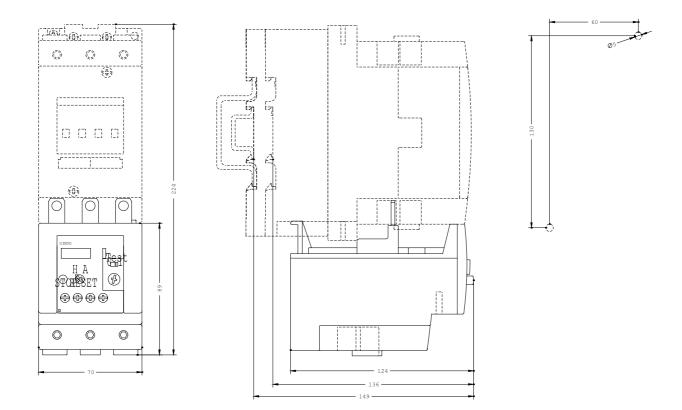
Installation/mounting/dimensions:				
Built in orientation		with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back		
Type of mounting		direct mounting		
Height	mm	120		
Width	mm	70		
Depth	mm	140		
Distance, to be maintained, to the ranks assembly				
• upwards	mm	0		
downwards	mm	0		
forwards	mm	0		
backwards	mm	0		
• sidewards	mm	0		
Distance, to be maintained, to earthed part				
• upwards	mm	0		

downwards	mm	0
forwards	mm	0
backwards	mm	0
• sidewards	mm	6
Distance, to be maintained, conductive elements		
• upwards	mm	0
downwards	mm	0
• forwards	mm	0
backwards	mm	0
• sidewards	mm	6

Connection type: Product function • removable terminal for auxiliary and control circuit No Design of the electrical connection • for main current circuit screw-type terminals • for auxiliary and control current circuit screw-type terminals Type of the connectable conductor cross-section · for main contacts solid 2x (2.5 ... 16 mm²) stranded 2x (10 ... 50 mm²), 10 ... 70 mm² finely stranded • with conductor end processing 2x (2.5 ... 35 mm²), 2.5 ... 50 mm² · for auxiliary contacts solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) · finely stranded • with conductor end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • for AWG conductors 2x (10 ... 1/0), 1x (10 ... 2/0) • for main contacts · for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) Conductor cross section that can be connected · for main contacts solid mm² 2.5 ... 6 stranded 10 ... 70 mm² stranded wire • with conductor end processing mm² 2.5 ... 50 · for auxiliary contact solid mm² 0.5 ... 2.5 stranded wire 0.5 ... 2.5 • with conductor end processing mm²

AWG number / as coded connectable conductor cross-section				
 for main contacts / minimum 		10		
for auxiliary contact	20 14			
Certificates/approvals:				
Verification of suitability	CSA / UL / CC / GL / LRS / BV / DNV / RMRS / R PRS / ABS			BV / DNV / RMRS / RINA
Varification of suitability / ATEX	_	Yes		
General Product Approval	For use in hazardous locations		Test Certificates	
CSA ROSTEST	DEKRA EXA DMT	. <u>M,</u>	Manufacturer	
Shipping Approval				other
ABS DNV GL	Llovd's Register LRS		RMRS	<u>Manufacturer</u>
Further information:				
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs				
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall				
CAx-Online-Generator http://www.siemens.com/cax				
Service&Support (Manuals, Certificates, Characteristics, FAQs, http://support.automation.siemens.com/WW/view/en/3RU1146-4MB0/				

 $\underline{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1146-4MB0}$



last change:

Mar 5, 2012