SIEMENS

MONITORING RELAY ATTACHABLE TO CONTACTOR 3RT2. SIZE S00 STANDARD, DIGITAL ADJUSTABLE APPARENT/ACTIVE CURRENT MONIT. 1.6 - 16A, 20-400 HZ, 3-PHASE

General technical data:			
Product brand name		SIRIUS	
Product designation		multi-phase current monitoring	
Design of the product		multi-phase current monitoring	
Size of the contactor / can be combined / company-specific		S00	
Protection class IP			
frontal/front side		IP20	
• of the terminal		IP20	
Insulation voltage / for overvoltage category III according to IEC 60664 / with degree of pollution 3			
rated value	V	690	
Altitude of installation site / at a height over sea level / maximum	m	2,000	
Ambient temperature			
during storage	°C	-40 80	
during the operating phase	°C	-25 60	
EMC immunity to interference			
according to IEC 60947-1		ambience A (industrial sector)	
EMC emitted interference			
according to IEC 60947-1		ambience A (industrial sector)	
Resistance against shock		15g / 11 ms	
Resistance against vibration		10 55 Hz / 0.35 mm	
Impulse voltage resistance / rated value	kV	6	
Operating apparent output / rated value	V·A	3.5	
Service power / rated value	W	2.5	
Item designation			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		К	
according to DIN EN 61346-2		К	
Mechanical operating cycles as operating time			
• typical		10,000,000	

Electrical operating cycles as operating time / at AC-15 / at 230 V		
• typical		100,000
Precision of digital display		+/-1 digit
Adjustable ON delay time		
when starting	S	099
with lower or upper limit violation	S	0 30
Standby time / for restart after fault	S	0.2
Phase number		3
Number of monitored phases		3
Product function		
overcurrent monitoring		Yes
undercurrent monitoring		Yes
 overcurrent and undercurrent monitoring 		Yes
apparent current monitoring		Yes
active current monitoring		Yes
Undercurrent recognition DC		No
Undercurrent recognition of 1 phase		No
Overcurrent recognition DC		No
Current window recognition DC		No
Undercurrent recognition of 3 phases		Yes
Overcurrent recognition of 1 phase		No
 Tension window recognition of 3 phases 		No
 Tension window recognition of 1 phase 		No
Phase sequence recognition		Yes
• can be activated or deactivated / phase sequence recognition		Yes
• Self-reset		Yes
Reset external		No
Manual RESET		Yes
Adjustable response current		
• 1	А	1.6 16
• 2	А	1.6 16
Factor / as multiple of the current monitoring upper limit		
 for the adjustable value of a blocking current 		25
Response value residual current detection / at 50/60 Hz		
• typical	А	1.5
Type of current / for monitoring		AC
Measurable current / for AC	А	1.6 16
Adjustable switching hysteresis for measured current value	А	0.1 3
Response time / maximum	ms	200

Relative repeat accuracy	%	2
Temperature drift per °C	%/°C	0.1
Current carrying capacity	-	
 for permanent overcurrent / max. permissible 	А	16
 for overcurrent duration < 1 a / max. permissible 	А	320
Supply voltage:		
Type of voltage / of the supply voltage		AC/DC
Supply voltage frequency / 1	Hz	50 60
Supply voltage / 1	-	
• for DC	V	24 240
• at 50 Hz / for AC	V	24 240
• at 60 Hz / for AC	V	24 240
Stored energy time / supply voltage failure / minimum	ms	10
Auxiliary circuit:		
Design of the contact element / of the output relay		closed-circuit current / open-circuit current
Operating current / at 17 V / minimum	mA	5
Number of outputs / as contact-less semiconductor switching element / for reporting function	-	
• non-delayed		1
Current carrying capacity / of the semiconductor output	-	
• at DC-13 / at 240 V	mA	20
• at AC-14 / at 240 V / at 50/60 Hz	mA	20
Residual current / of the semiconductor output / max.	mA	0.035
Number of change-over switches		
for auxiliary contact	_	1
Operating current / of the auxiliary contacts		
• at AC-15		
• at 24 V	А	3
• at 230 V	А	3
• at 400 V	А	3
• at DC-13		
• at 24 V	А	1
• at 125 V	А	0.2
• at 250 V	А	0.1

Inputs/ Outputs:

Short-circuit:

Installation/mounting/dimensions:

built in orientation		any
Type of fixing/fixation		direct mounting
Width	mm	45
Height	mm	79
Depth	mm	81
distance, to be maintained, to the ranks assembly		
• forwards	mm	0
backwards	mm	0
• upwards	mm	0
downwards	mm	0
• sidewards	mm	0
distance, to be maintained, to earthed part		
forwards	mm	0
• backwards	mm	0
• upwards	mm	0
downwards	mm	0
• sidewards	mm	6
distance, to be maintained, conductive elements		
forwards	mm	0
backwards	mm	0
• upwards	mm	0
downwards	mm	0
• sidewards	mm	6
Connections:		
design of the electrical connection		
for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Product function		
 removable terminal for main circuit 		No
 removable terminal for auxiliary and control circuit 		Yes
Type of the connectable conductor cross-section		
• for main contacts		
• unifilar		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2), 2x (1 4 mm2)
stranded wire		
 with conductor end processing 		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
• at AWG-conductors / for main contacts		1x 12, 2x (20 14)
for auxiliary contact		
• solid		0.5 4 mm2, 2x (0.5 2.5 mm2)

stranded wire		
with wire end processing		1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
 for AWG conductors / for auxiliary contacts 		2x (20 14)
Tightening torque		
at screw-type terminals	N∙m	0.8 1.2
Certificates/approvals:		
verification of suitability		CE / UL / CSA

Further information:

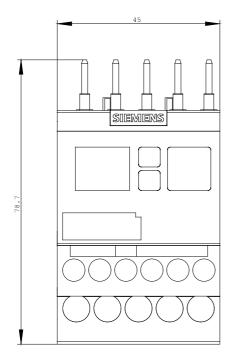
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

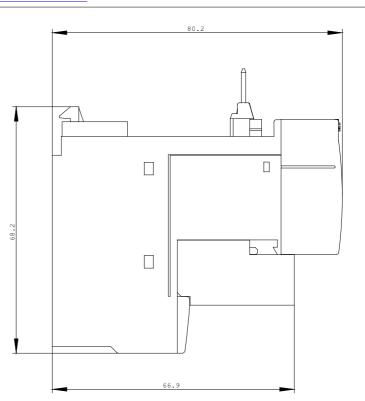
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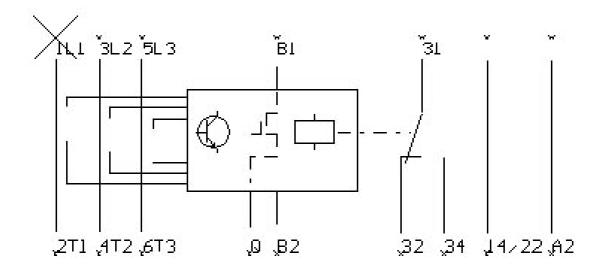
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RR2241-1FW30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RR2241-1FW30







last change:

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