## **SIEMENS**

Product data sheet

OVERLOAD RELAY 10...40 A FOR MOTOR PROTECTION SIZE S0, CLASS 10 CONTACTOR ASS. MAIN CIRCUIT: SPR.-LOAD.TERM.

General technical data:		
Product brand name		SIRIUS
Product designation		solid-state overload relay
Protection class IP / frontal/front side		IP20
Insulation voltage / 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 transport	°C	-40 80
during the operating phase	°C	-25 60
Relative humidity		
during the operating phase	/ %	95
EMC immunity to interference		
according to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference		
according to IEC 60947-1		CISPR 11, environment B (residential area)
Conductor-bound parasitic coupling BURST		
according to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 $$
Conductor-bound parasitic coupling conductor-earth SURGE		
according to IEC 61000-4-5		$2\ \text{kV}$ (line to earth) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-conductor SURGE		
according to IEC 61000-4-5		1 kV (line to line) corresponds to degree of severity 3 $$
Electrostatic discharge		
according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling		
according to IEC 61000-4-3		10 V/m
Resistance against shock		15g / 11 ms
Impulse voltage resistance / rated value	kV	6
Real loss power / total / typical	W	0.2

Item designation	
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>	F
according to DIN EN 61346-2	F
Size of overload relay	S0
Size of the contactor / can be combined / company-specific	S0
Type of protection	PTB 09 ATEX 3001 Ex II (2) GD
Type of assignement	2
Trip class	CLASS 10

Main circuit:

main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at 3 AC / rated value		
• maximum	V	690
Operating current / at AC-3 / at 400 V		
rated value	А	40
Adjustable response current		
of the current-dependent overload release	А	10 40
Service power / for three-phase servomotors / at 400 V / at 50 Hz $$		
for AC three-phase	kW	5.5 18.5
Operating current / of the fuse link		
rated value	А	50
rated value  Adjustable response current     of the current-dependent overload release  Service power / for three-phase servomotors / at 400 V / at 50 Hz     of AC three-phase Operating current / of the fuse link	A kW	10 40 5.5 18.5

## Auxiliary circuit:

Contact reliability / of the auxiliary contacts		acceptability for PLC control (17 V, 5 mA)
Number of NC contacts / for auxiliary contact	-	1
Number of NO contacts / for auxiliary contact	-	1
Number of change-over switches / for auxiliary contact		0
Operating current / of the auxiliary contacts		
• at AC-15		
• at 24 V	А	4
• at 110 V	А	4
• at 120 V	А	4
• at 125 V	А	4
• at 230 V	А	3
• at DC-13		
• at 24 V	А	2
• at 60 V	А	1
• at 110 V	А	0.3
• at 125 V	А	0.3
• at 220 V	А	1
• at 110 V • at 125 V	A A	0.3 0.3

Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A
Installation/mounting/dimensions:		
built in orientation		any
Type of fixing/fixation		direct mounting
Width	mm	45
Height	mm	87.3
Depth	mm	84.5
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	6
backwards	mm	0
• upwards	mm	6
downwards	mm	6
• sidewards	mm	6
distance, to be maintained, conductive elements		
• forwards	mm	6
backwards	mm	0
• upwards	mm	6
downwards	mm	6
• sidewards	mm	6
Connections:		
design of the electrical connection		
for main current circuit		spring-loaded terminals
· ··· · · · · · · ·		

for main current circuit	spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals
Product function / removable terminal for auxiliary and control circuit	Yes
Type of the connectable conductor cross-section	
for main contacts	
• unifilar	1x (1 10 mm2)
stranded wire	1x (1 10 mm2)
stranded wire	
<ul> <li>with conductor end processing</li> </ul>	1x (1 6 mm2)

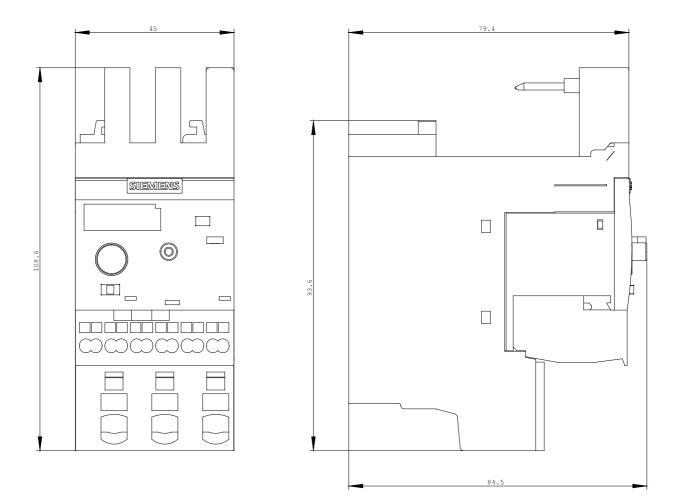
without conductor final cutting	1x (1 6 mm2)
at AWG-conductors / for main contacts	1x (18 8)
for auxiliary contact	
• solid	1x (0.5 1.5 mm2), 2x (0.5 1.5 mm2)
stranded wire	
with wire end processing	1x (0.25 1.5 mm2), 2x (0.25 1.5 mm2)
without conductor final cutting	1x (0.25 1.5 mm2), 2x (0.25 1.5 mm2)
<ul> <li>for AWG conductors / for auxiliary contacts</li> </ul>	1x (24 16), 2x (24 16)
Certificates/approvals:	

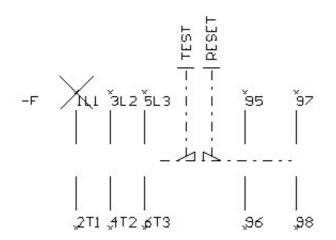
verification of suitability	UL / CSA
• ATEX	Yes
Safety:	
Protection against electrical shock	finger-safe
Further information:	
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs	
Global Industry Mall (Online ordering system)	

http://www.siemens.com/industrial-controls/mall

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB3026-1VE0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RB3026-1VE0





last change:

Apr 26, 2010