SIEMENS

Data sheet

3RU2116-0JB0



Overload relay 0.70...1.0 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	4.8 W
• per pole	1.6 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
 between auxiliary and auxiliary circuit 	440 V
 between auxiliary and auxiliary circuit 	440 V
 between main and auxiliary circuit 	440 V
 between main and auxiliary circuit 	440 V
shock resistance acc. to IEC 60068-2-27	8g / 11 ms
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001
reference code acc. to IEC 81346-2	F
Substance Prohibitance (Date)	01.10.2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-40 +70 °C
 during storage 	-55 +80 °C
during transport	-55 +80 °C
temperature compensation	-40 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.7 1 A
operating voltage	
 rated value 	690 V
 at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz

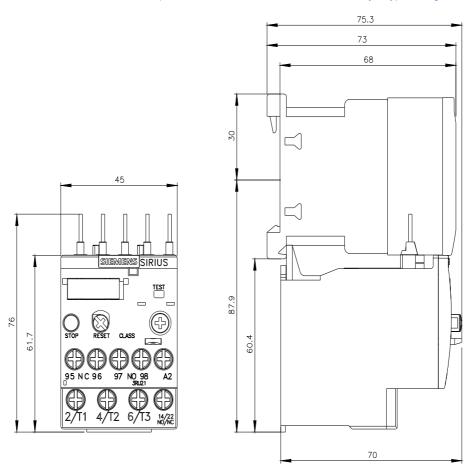
operational current rated value	1A
operating power at AC-3	
at 400 V rated value	0.25 kW
at 500 V rated value	0.23 kW
at 690 V rated value	0.57 kW
Auxiliary circuit	0.55 KW
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
note	for contactor disconnection
number of NO contacts for auxiliary contacts	
note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational 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	1A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.3 A
• at 110 V	0.22 A
• at 125 V	0.22 A
• at 220 V	0.11 A
contact rating of auxiliary contacts according to UL	B600 / R300
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	1 A
 at 600 V rated value 	1 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	76 mm
width	45 mm
depth	70 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
type of connectable conductor cross-sections	
type of connectable conductor cross-sections • for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
type of connectable conductor cross-sections	

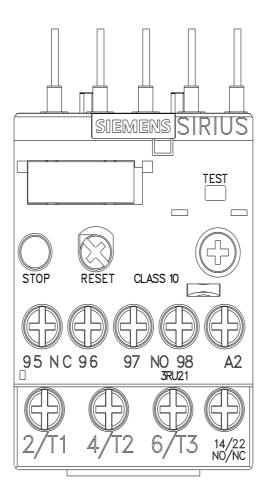
 at AWG cables 	s for auxiliary contacts		2x (20 16), 2x (18 14)		
tightening torque			(, (
	cts with screw-type term	inals	0.8 1.2 N·m		
	ntacts with screw-type t		0.8 1.2 N·m		
design of screwdriver shaft		Diameter 5 6 mm			
size of the screwdriver tip		Pozidriv PZ 2			
	d of the connection sc	rew			
 for main contact 			M3		
	and control contacts		M3		
afety related data			1010		
	low domand rate acc. t	2 SN 31020	50 FIT		
failure rate [FIT] with low demand rate acc. to SN 31920					
MTTF with high demand rate T1 value for proof test interval or service life acc. to		2 280 y			
IEC 61508	est interval or service	ille acc. to	20 у		
protection class IP on the front acc. to IEC 60529		IP20			
touch protection or	the front acc. to IEC	60529	finger-safe, for vertical cont	tact from the front	
isplay					
display version for sv	vitching status		Slide switch		
ertificates/ approva	ls				
General Product A				For use in hazardo	us locations
SP CAM		(h) u	EHC	IECEx	KEX ATEX
	ccc				ATEX
CSA Declaration of Con	formity	UL UL		IECEx IECEx Marine / Shipping	ATEX
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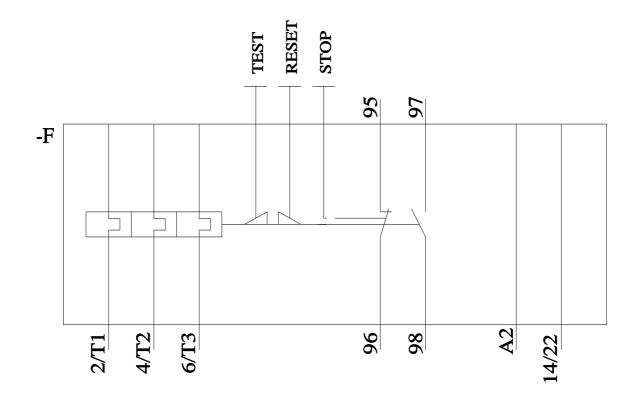
Further information

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Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0JB0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0JB0&objecttype=14&gridview=view1







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