SIEMENS

Data sheet

3RB3016-2PB0



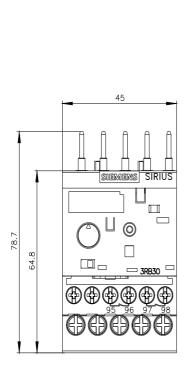
Overload relay 1...4 A Electronic For motor protection Size S00, Class 20E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

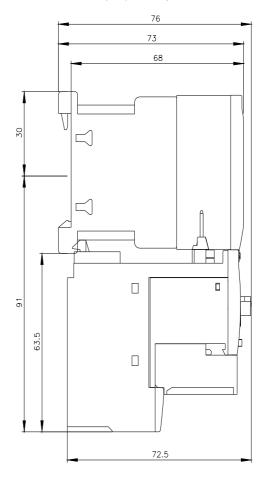
product brand name	SIRIUS				
product designation	solid-state overload relay				
product type designation	3RB3				
General technical data					
size of overload relay	S00				
size of contactor can be combined company-specific	S00				
power loss [W] for rated value of the current at AC in hot operating state	0.1 W				
• per pole	0.03 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 protective separation					
 in networks with ungrounded star point between auxiliary and auxiliary circuit 	300 V				
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V				
 in networks with ungrounded star point between main and auxiliary circuit 	600 V				
 in networks with grounded star point between main and auxiliary circuit 	690 V				
shock resistance	15g / 11 ms				
• according to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms				
thermal current	4 A				
reference code according to IEC 81346-2	F				
Substance Prohibitance (Date)	10/01/2009				
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8				
Weight	0.22 kg				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
during operation	-25 +60 °C				
during storage	-40 +80 °C				
during transport	-40 +80 °C				
temperature compensation	-25 +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	1 4 A				
operating voltage					
rated value	690 V				
 at AC-3e rated value maximum 	690 V				

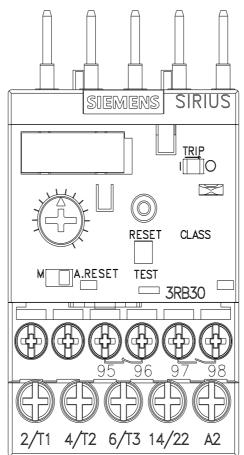
operating frequency rated value	50 60 Hz				
operational current rated value	4 A				
operational current at AC-3e at 400 V rated value	4 A				
operating power					
• for 3-phase motors at 400 V at 50 Hz	0.37 1.5 kW				
• for AC motors at 500 V at 50 Hz	0.37 2.2 kW				
• for AC motors at 690 V at 50 Hz	0.55 3 kW				
Auxiliary circuit					
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	1				
• note	for message "tripped"				
number of CO contacts for auxiliary contacts	0				
operational current of auxiliary contacts at AC-15					
• at 24 V	4 A				
• at 110 V	4 A				
• at 120 V	4 A				
• at 125 V	4 A				
• at 230 V	3 A				
operational current of auxiliary contacts at DC-13					
• at 24 V	2 A				
• at 60 V	0.55 A				
• at 110 V	0.3 A				
• at 125 V	0.3 A				
at 220 V Protective and monitoring functions	0.11 A				
Protective and monitoring functions	CLASS 20E				
trip class design of the overload release	electronic				
UL/CSA ratings					
full-load current (FLA) for 3-phase AC motor					
at 480 V rated value	4 A				
at 400 V rated value at 600 V rated value	4A 4A				
contact rating of auxiliary contacts according to UL	B600 / R300				
Short-circuit protection					
design of the fuse link					
for short-circuit protection of the main circuit					
- with type of coordination 1 required	gG: 35 A, RK5: 15 A				
- with type of assignment 2 required	gG: 20 A				
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A				
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	Contactor mounting				
height	79 mm				
width	45 mm				
depth	73 mm				
Connections/ Terminals					
product component removable terminal for auxiliary and control circuit	Yes				
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 circuit	Top and bottom				
type of connectable conductor cross-sections for main contacts					
• solid	1x (0.5 4 mm²), 2x (0.5 1.5 mm²), 2x (0.75 4 mm²)				
solid or stranded	1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²)				
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)				
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)				

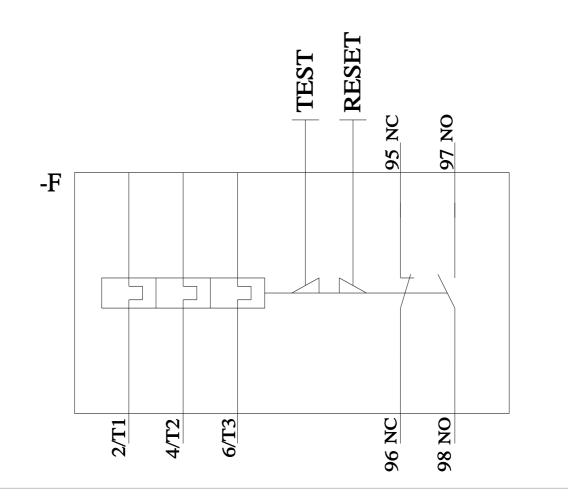
- solid or stran	ded		1x (0,5 4 mm²), 2x	(0,5 2,5 mm	1 ²)			
 finely strande 	d with core end proces	sing	1x (0.5 2.5 mm²), 2	2x (0.5 1.5 m	(0.5 1.5 mm²)			
 for AWG cables for 	auxiliary contacts		1x (20 14), 2x (20 14)					
tightening torque								
 for main contacts v 	vith screw-type termina	als	0.8 1.2 N·m	0.8 1.2 N·m				
 for auxiliary contact 	ts with screw-type tern	ninals	0.8 1.2 N·m					
design of screwdriver s	haft		Diameter 5 to 6 mm					
size of the screwdriver	tip		Pozidriv PZ 2					
design of the thread of	the connection screw	1						
 for main contacts 			M3					
 of the auxiliary and 	control contacts		M3					
Electrical Safety								
protection class IP on t	he front according to	IEC 60529	IP20					
touch protection on the	front according to IE	C 60529	finger-safe, for vertical contact from the front					
Communication/ Protoco	1							
type of voltage supply v	via input/output link n	naster	No					
Electromagnetic compati	bility							
conducted interference								
	ding to IEC 61000-4-4		2 kV (power ports), 1	kV (signal por	ts) corresponds to de	earee of severity 3		
	arth surge according to	DIEC 61000-4-5				5		
	onductor surge accord		· · · · · ·	2 kV (line to earth) corresponds to degree of severity 3 1 kV (line to line) corresponds to degree of severity 3				
 due to high-frequent 4-6 	ncy radiation according	to IEC 61000-	10 V in frequency ran	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz				
field-based interference	according to IEC 610	000-4-3	10 V/m					
electrostatic discharge	÷		6 kV contact discharg	ge / 8 kV air dis	charge			
Display	-			-	-			
display version for switch	ing status		Slide switch					
CA	EG-Konf.					CUL		
EMV		For use in haz ous locations	ard- Test Certifica	ates		Marine / Shipping		
RCM	KC	K ATEX	<u>Type Test C</u> <u>ates/Test R</u>		ecial Test Certific- ate	ABS		
Marine / Shipping						other		
B U REAU VERITAS		Lloyds Register Lis	PRS			<u>Confirmation</u>		
Further information Information on the pack https://support.industry.si Information- and Downl https://www.siemens.com Industry Mall (Online or https://mall.industry.sieme Cax online generator http://support.automation Service&Support (Manu https://support.industry.si Image database (produc	emens.com/cs/ww/en/v oadcenter (Catalogs, v/ic10 dering system) ens.com/mall/en/en/Ca siemens.com/WW/CA ials, Certificates, Cha emens.com/cs/ww/en/p	Brochures,) talog/product?mlfb Xorder/default.aspy racteristics, FAQs ps/3RB3016-2PB0	(?lang=en&mlfb=3RB30 s,)		I AN macros			
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3016-2PB0⟨=en								

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-2PB0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3016-2PB0&objecttype=14&gridview=view1









last modified:

3/11/2024 🖸