SIEMENS

Data sheet

3RB2066-1GC2

Overload relay 55...250 A for motor protection Size S10/S12, Class 10E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset

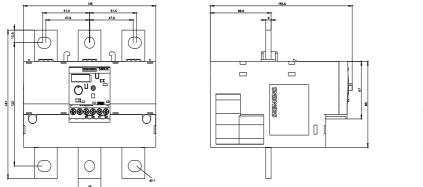


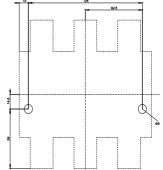
product brand name	SIRIUS			
product designation	solid-state overload relay			
product type designation	3RB2			
General technical data				
size of overload relay	S10, S12			
size of contactor can be combined company-specific	S10, S12			
insulation voltage with degree of pollution 3 at AC rated value	1 000 V			
surge voltage resistance rated value	8 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": 8g / 11 ms			
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles			
thermal current	250 A			
recovery time after overload trip				
 with automatic reset typical 	3 min			
with remote-reset	0 min			
 with manual reset 	0 min			
reference code according to IEC 81346-2	F			
Substance Prohibitance (Date)	07/01/2006			
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1			
Weight	1.603 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-	55 250 A			

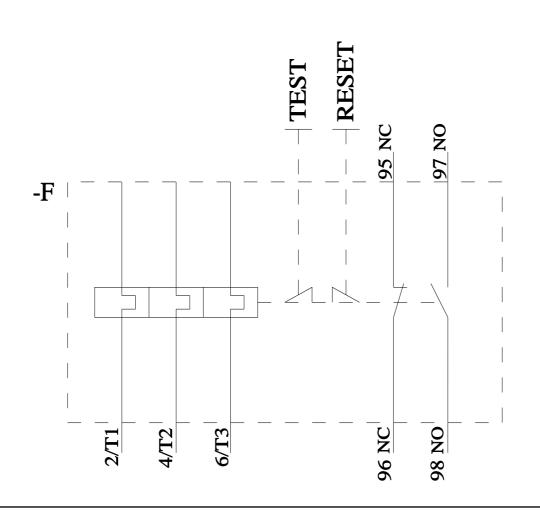
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• at 230 V 3 A operational current of auxiliary contacts at DC-13 2 A
operational current of auxiliary contacts at DC-13 • at 24 V 2 A
• at 24 V 2 A
• at 60 V 0.55 A
• at 110 V 0.3 A
• at 125 V 0.3 A
• at 220 V 0.11 A
Protective and monitoring functions
trip class CLASS 10E
design of the overload release electronic
UL/CSA ratings
full-load current (FLA) for 3-phase AC motor
• at 480 V rated value 250 A
at 600 V rated value 250 A
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: 500 A, Class L: 700 A
— with type of assignment 2 required gG: 500 A
for short-circuit protection of the auxiliary switch required fuse gG: 6 A
Installation/ mounting/ dimensions
mounting position any
fastening method Contactor mounting/stand-alone installation
height 119 mm
width 120 mm
depth 155 mm
Connections/ Terminals
product component removable terminal for auxiliary and Yes
control circuit
type of electrical connection
for main current circuit busbar connection
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 auxiliary contacts
— solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)

— solid or st			1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²)			
 finely stranded with core end processing 				5 2.5 mm²), 2x	(0.5 1.5 mm²)	
for AWG cables for auxiliary contacts			2x (20	14)		
tightening torque						
 for main contacts with screw-type terminals 			20 2			
	tacts with screw-type term		0.8	1.2 N·m		
design of the thread	of the connection screw					
 for main contacts 			M10			
 of the auxiliary and control contacts 			M3			
Electrical Safety						
protection class IP on the front according to IEC 60529			IP00; IP20 with box terminal/cover			
	touch protection on the front according to IEC 60529			safe, for vertical	contact from the front wit	h box terminal/cover
Communication/ Protocol				_		
type of voltage supply via input/output link master						
Electromagnetic comp	atibility		_			
conducted interferer	ice					
 due to burst according 	cording to IEC 61000-4-4		2 kV (p	power ports), 1 k	/ (signal ports) correspor	nds to degree of severity 3
 due to conducto 	or-earth surge according to	IEC 61000-4-5	2 kV (I	ine to earth) corr	esponds to degree of sev	verity 3
 due to conducto 61000-4-5 	pr-conductor surge accordin	ng to IEC	1 kV (l	ine to line) corres	sponds to degree of seve	rity 3
 due to high-frequency radiation according to IEC 61000- 4-6 		10 V ir	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz			
field-based interference according to IEC 61000-4-3		10 V/m	ı			
electrostatic discharge according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge				
Display	<u> </u>				i e i e e e e e e e e e e e e e e e e e	
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General Product Ap	proval					EMV
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EMV	For use in hazard- ous locations	Test Certificate	es		Marine / Shipp	bing
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Marine / Shipping		other			Environment	
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