SIEMENS

Data sheet

3RB2066-2GC2

Overload relay 55...250 A for motor protection Size S10/S12, Class 20E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset

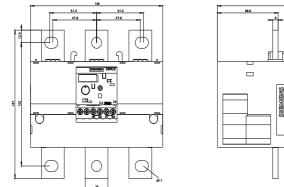


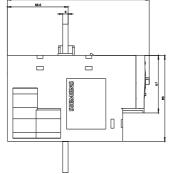
product brand name	SIRIUS				
product designation	solid-state overload relay				
product type designation	3RB2				
General technical data					
size of overload relay	S10, S12				
size of contactor can be combined company-specific	S10, S12				
insulation voltage with degree of pollution 3 at AC rated 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	1.64 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				

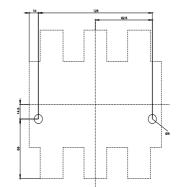
dependent overload release			
operating voltage			
 rated value 	1 000 V		
 at AC-3e rated value maximum 	1 000 V		
operating frequency rated value	50 60 Hz		
operational current rated value	250 A		
operational current at AC-3e at 400 V rated value	250 A		
operating power			
 for 3-phase motors at 400 V at 50 Hz 	30 132 kW		
 for AC motors at 500 V at 50 Hz 	45 160 kW		
 for AC motors at 690 V at 50 Hz 	55 250 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 24 V • at 110 V	4 A 4 A		
	4 A 4 A		
• at 120 V			
• 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	0.11 A		
Protective and monitoring functions			
trip class	CLASS 20E		
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		
	Contactor mounting/stand-alone installation		
fastening method	119 mm		
height	119 mm 120 mm		
width			
depth	155 mm		
Connections/ Terminals	Ver		
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection			
for main current circuit	husbar connection		
for main current circuit for auxiliary and control circuit	busbar connection		
 for auxiliary and control circuit 	screw-type terminals		
for auxiliary and control circuit arrangement of electrical connectors for main current	screw-type terminals		
for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	screw-type terminals		
 for auxiliary and control circuit arrangement of electrical connectors for main current circuit 	screw-type terminals		

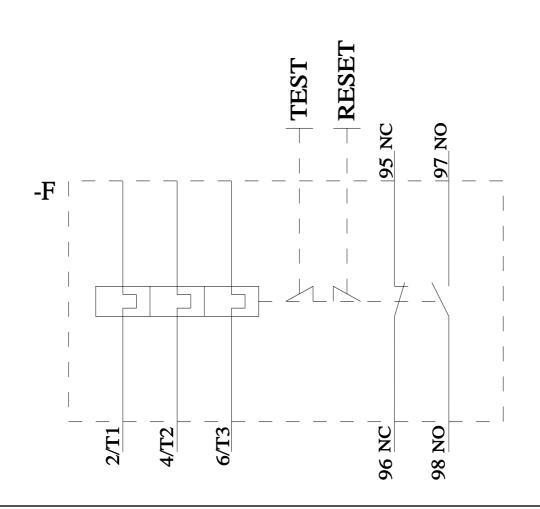
l'el to-	and a d		1 (O E 1		0.5			
— solid or stra		line.	1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²)					
-	- finely stranded with core end processing		1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)					
for AWG cables for auxiliary contacts		2x (20 14)						
tightening torque			00 00 NI m					
	s with screw-type terminal		2022 N·m					
	acts with screw-type termi		0.8 1.2 N·m	I				
for main contacts	of the connection screw		M40					
	-		M10					
,	of the auxiliary and control contacts			M3				
Electrical Safety	the front according to I	EC 60520	ID00, ID20, with how terminal/appear					
-	the front according to I		IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover			torminal/oovor		
Communication/ Protoc	ne front according to IEC	5 60529	linger-sale, io			terminal/cover		
		aatar	No	_				
	y via input/output link m	aster	No					
Electromagnetic compa		_	_	_				
conducted interference			A 114					
	ording to IEC 61000-4-4				nal ports) corresponds to	- ,		
	-earth surge according to				nds to degree of severity	3		
 due to conductor 61000-4-5 	-conductor surge accordir	ng to IEC	1 kV (line to li	ne) correspond	Is to degree of severity 3			
 due to high-frequ 	ency radiation according	cy radiation according to IEC 61000- 10			5 to 80 MHz, modulation 8	80 % AM with 1 kHz		
4-6			10 V/m					
	field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2			lischarge / 8 k\	/ air discharge			
Display		0-4-2		lischarge / o kv	all discharge			
display version for swite	abing status		Slide switch					
Approvals Certificates	shing status	_	Silde Switch	_				
General Product App						EMV		
	UK CA	CE EG-Konf.		Ű	EHC	RCM		
EMV	For use in hazard- ous locations	Test Certificates	8		Marine / Shipping			
KC	K ATEX	<u>Type Test Certil</u> ates/Test Repo		<u>al Test Certific-</u> <u>ate</u>	ABS			
Marine / Shipping		other			Environment			
Lloyd's Register	RINA	<u>Miscellaneous</u>	<u>s C</u>	onfirmation	Environmental Con- firmations			
Information- and Dow	siemens.com/cs/ww/en/vi		-	-				
https://www.siemens.co	om/ic10							
Industry Mall (Online https://mall.industry.sie Cax online generator	om/ic10	alog/product?mlfb=:		_	22			

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2066-2GC2 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB2066-2GC2 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2066-2GC2&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB2066-2GC2/char









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