SIEMENS

Data sheet

3RB2056-2FF2



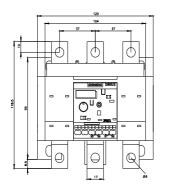
Overload relay 50...200 A for motor protection Size S6, Class 20E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

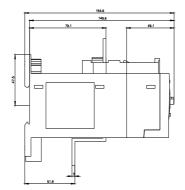
product brand name	SIRIUS			
product designation	solid-state overload relay			
product type designation	3RB2			
General technical data				
size of overload relay	S6			
size of contactor can be combined company-specific	S6			
insulation voltage with degree of pollution 3 at AC rated value	1 000 V			
surge 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			
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles			
thermal current	200 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			
Weight	1.07 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	50 200 A			

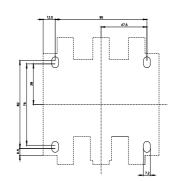
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operating voltage	
rated value	1 000 V
at AC-3e rated value maximum	1 000 V
operating frequency rated value	50 60 Hz
operational current rated value	200 A
operational current at AC-3e at 400 V rated value	200 A
operating power	
 for 3-phase motors at 400 V at 50 Hz 	30 90 kW
 for AC motors at 500 V at 50 Hz 	30 132 kW
• for AC motors at 690 V at 50 Hz	55 160 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	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	200 A
• at 600 V rated value	200 A
contact rating of auxiliary contacts according to UL	B600 / R300
Short-circuit protection	
design of the fuse link	
design of the fuse link	gG: 355 A, Class L: 601 A
design of the fuse linkfor short-circuit protection of the main circuit	gG: 355 A, Class L: 601 A gG: 315 A
 design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required 	-
 design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required 	gG: 315 A
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 315 A fuse gG: 6 A
design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG: 315 A fuse gG: 6 A any
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 315 A fuse gG: 6 A
design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes busbar connection
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes
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design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes busbar connection spring-loaded terminals
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes busbar connection spring-loaded terminals
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes busbar connection spring-loaded terminals Top and bottom

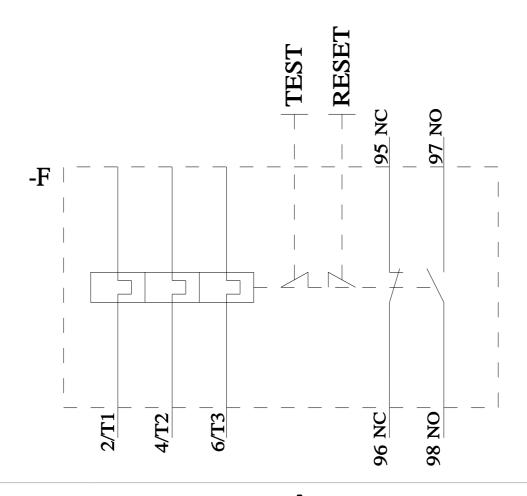
 finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts 		2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16)				
			ZX (24	10)		
• for main contacts	with screw-type termina	ls	10 1	2 N·m		
design of the thread of			10 1	2 10 111		
for main contacts			M8			
Electrical Safety						
protection class IP on t	the front according to	IEC 60529	IP00: I	P20 with box terminal/co	over	
touch protection on the			finger-safe, for vertical contact from the front with box terminal/cover			
Communication/ Protoco	-		Juliger	,		
type of voltage supply		naster	No			
Electromagnetic compat						
conducted interference						
due to burst according to IEC 61000-4-4			2 kV (r	oower ports), 1 kV (signa	al ports) corresponds to de	earee of severity 3
	-	IEC 61000-4-5			s to degree of severity 3	- <u>g</u>
	 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 			ine to line) corresponds		
4-6	ency radiation according				o 80 MHz, modulation 80	% AM with 1 kHz
field-based interference			10 V/m			
electrostatic discharge	according to IEC 6100	00-4-2	6 kV c	ontact discharge / 8 kV a	air discharge	
Display						
display version for switch	ning status		Slide s	switch		
Approvals Certificates General Product Appro						
ccc	UK CA	EG-Konf.				CUL
EMV		For use in haza ous locations	ard-	Test Certificates		Marine / Shipping
Â	KC					
RCM		K ATEX		<u>Type Test Certific-</u> <u>ates/Test Report</u>	<u>Special Test Certific-</u> <u>ate</u>	ABS
RCM		K ATEX				AB5
RCM Marine / Shipping	Hoyd's Register us			ates/Test Report		ABS Environment Environmental Con- firmations
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