SIEMENS

Data sheet

3RB2056-1FX2



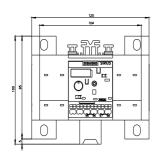
Overload relay 50...200 A for motor protection Size S6, Class 10E Contactor mounting/stand-alone installation Main circuit: straight-through transformer Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

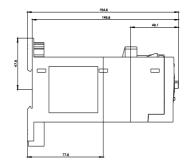
product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB2
General technical data	
size of overload relay	S6
size of contactor can be combined company-specific	S6
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
 between auxiliary and auxiliary circuit 	300 V
 between auxiliary and auxiliary circuit 	300 V
 between main and auxiliary circuit 	600 V
 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
type of protection according to ATEX directive 2014/34/EU	Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p]
certificate of suitability according to ATEX directive 2014/34/EU	PTB 06 ATEX 3001
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	07/01/2006
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
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

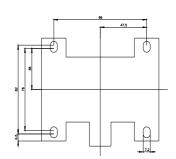
operational current at AC-3e at 400 V rated value	200 A
operating power	
 for 3-phase motors at 400 V at 50 Hz 	30 90 kW
 for AC motors at 500 V at 50 Hz 	30 132 kW
 for AC motors at 690 V at 50 Hz 	55 160 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary 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	0
• at 24 V	4 A
• at 110 V	4 A
• at 120 V	4 A
• at 125 V	4 A 4 A
• at 230 V	3 A
	SA
operational current of auxiliary contacts at DC-13	2 A
• at 24 V	
• 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	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	
 for short-circuit protection of the main circuit 	
 for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 355 A, Class L: 601 A
 for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 	gG: 315 A
 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 	-
 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 	gG: 315 A
 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
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
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 any Contactor mounting/stand-alone installation
 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
 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 120 mm
 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
 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	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm
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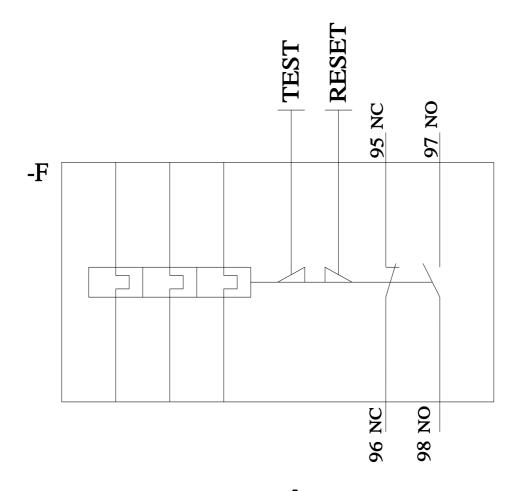
finger-safe, for vertical contact from the front

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ommunication/ Prot	tocol					
type of voltage supp	ply via input/output li	nk master	No			
lectromagnetic com	patibility					
conducted interfere						
due to burst according to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3				
due to conductor-earth surge according to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3				
• due to conductor-conductor surge according to IEC 61000-4-5			1 kV (line to line) corresponds to degree of severity 3			
due to high-frequency radiation according to IEC 61000-4-6		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 electrostatic discharge according to IEC 61000-4-2		10 V/m 6 kV contact discharge / 8 kV air discharge				
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display version for switching status			Slide switch			
ertificates/ approval	ls					
General Product Ap	oproval					EMC
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For use in hazard- ous locations	Declaration of Con	formity	Test	Certificates		Marine / Shippin
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