SIEMENS

Data sheet

3RB2153-4FC2



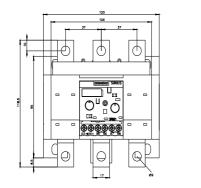
Overload relay 50...200 A for motor protection Size S6, CLASS 5...30E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset Internal ground fault detection

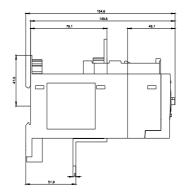
product brand name	SIRIUS			
product designation	solid-state overload relay			
product type designation	3RB2			
General technical data				
size of overload relay	\$6			
size of contactor can be combined company-specific	S6			
insulation voltage with degree of pollution 3 at AC rated value	1 000 V			
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			
thermal current	200 A			
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	1.08 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			
operating voltage				
rated value	1 000 V			
 for remote-reset function at DC 	24 V			
• at AC-3e rated value maximum	1 000 V			
operating frequency rated value	50 60 Hz			

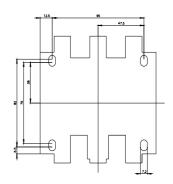
operational current rated value	200 A
operational current at AC-3e at 400 V rated value	200 A
operating power	
 for 3-phase motors at 400 V at 50 Hz 	30 90 kW
• for AC motors at 500 V at 50 Hz	30 132 kW
• for AC motors at 690 V at 50 Hz	55 160 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
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	0.11 A
	CLASS SE 10E 20E and 20E adjustable
trip class	CLASS 5E, 10E, 20E and 30E adjustable
design of the overload release	electronic 0.75 x IMotor
response value current of the grounding protection minimum	1 000 ms
response time of the grounding protection in settled state	1 000 IIIS
operating range of the grounding protection relating to current set value	
• minimum	IMotor > lower current setting value
• maximum	IMotor < upper current setting value x 3.5
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	oG: 355 A. Class L: 601 A
 design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 355 A, Class L: 601 A qG: 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 	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 	-
 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 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	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 width	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
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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	gG: 315 A fuse gG: 6 A any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm Yes busbar connection screw-type terminals

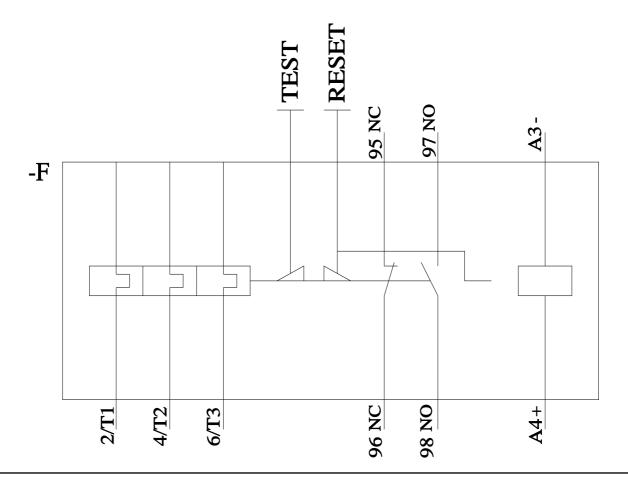
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 	for AWG cables for auxiliary contacts		2x (20) 14)				
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	 for auxiliary contact 	 for auxiliary contacts with screw-type terminals 		0.8	1.2 N·m			
	design of the thread of	the connection screw						
Bisectical Safety Protection class P on the front according to EC 60523 IP00; IP20 with box terminal/cover Tortection class P on the front according to EC 60523 IP00; IP20 with box terminal/cover Communication/Protocol IP00; IP20 with box terminal/cover Tortection class P on the front according to EC 60523 IP00; IP20 with box terminal/cover Communication/Protocol IP00; IP20 with box terminal/cover Protoction class P on the front according to EC 60524 No Electromagnetic compatibility IP00; IP20 with box terminal/cover Conducted interference 2 KV (power ports), 1 KV (signal ports) corresponds to degree of severity 3 4 we to conductor-conductor surge according to EC 61000-4.3 2 KV (power ports), 1 KV (signal ports) corresponds to degree of severity 3 4 of bihp-frequency radiation according to EC 61000-4.2 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 KHz 4 of bihp-frequency radiation according to EC 61000-4.2 10 V in 4 of bihp-frequency radiation according to EC 61000-4.2 10 V in 4 of bihp-frequency radiation according to EC 61000-4.2 10 V in 4 of bihp-frequency radiation according to EC 61000-4.2 10 V in 4 of bihp-frequency radiation according to EC 61000-4.2 10 V in 6 of condition for the front with points Side switch Approvals Certificates Marrine / Shipping Conditio	for main contacts		M10					
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