SIEMENS

Data sheet

3RB2066-2MF2

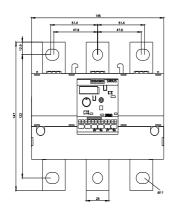


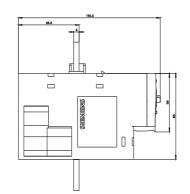
Overload relay 160...630 A for motor protection Size S10/S12, Class 20E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

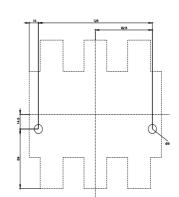
and best been descent	
product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB2
General technical data	
size of overload relay	S10, S12
size of contactor can be combined company-specific	S10, S12
insulation voltage with degree of pollution 3 at AC rated value	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	630 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	1.854 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	160 630 A

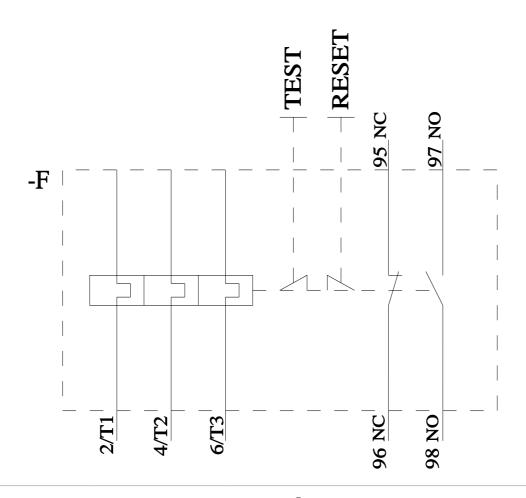
operating frequency inter value 1 000 V • ARC-3e rated value maximum 1 000 V • exclosing value value 50. A operating frequency rated va		
• • AL -3 ender value maximum 1000 V operating frequency made value 50 60 Hz operating former, rade Value 50 A 60 A operating former 40 O V and Value 50 A operating former 40 O V and Value 50 A operating former 40 O V and Value 50 A operating former 40 O V and Value 50 A operating former 40 O V and Value 50 A of AC motes at 60 V V at 50 Hz 12 - 400 AW 40 A of AC motes at 60 V V at 50 Hz 12 - 400 AW 40 A ontots for contacts for auxiliary contacts 1 ontot for contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 - - ot 20 V 4A 4 - ot 20 V 4A - - operational current of auxiliary contacts at DC-13 - - operational current of auxiliary contacts at DC-13 - - operational current of auxiliary contacts at DC-13 - -	operating voltage	
operational current at AC-36 at 400 V at 60 Value 600 A operational current at AC-36 at 400 V at 60 Value 600 A operational current at AC-36 at 400 V at 60 Value 600 A operational current at AC-36 at 400 V at 60 Value 600 A operational current at AC-36 at 400 V at 60 Value 600 - 355 KW • 6x A choods at 600 V at 50 Value 100 - 550 KW Auditary creation 100 - 550 KW action of NC contects for auxillary contacts 0 operational current of auxillary contacts 0 operational current of auxillary contacts at AC-15 4 A • 110 V 4 A • 125 V 4 A • 125 V 2 A • 126 V 2 A • 127 V 0 3 A • 128 V 0 3 A • 128 V 0 3 A • 110 V		
operational current and AC-Se at 400 V at 50 Hz 980 A operating power 680 A • for 3-phase motors at 400 V at 50 Hz 90 355 kW • for AC motors at 600 V at 50 Hz 102 400 kW • for AC motors at 600 V at 50 Hz 102 400 kW • for AC motors at 600 V at 50 Hz 102 400 kW • for AC motors at 600 V at 50 Hz 102 400 kW • for AC motors at 600 V at 50 Hz 102 400 kW • for AC motors at 600 V at 50 Hz 100 500 kW • for AC motors at 600 V at 50 Hz 100 500 kW • for Operational current of auxiliary contacts 1 • for message "hipped" 6 • runber of CO contacts for auxiliary contacts at AC-15 4 • at 120 V 4A • at 120 V 4A • at 120 V 4A • at 120 V 0.0 SA • at 120 V 0.0 A • at 120 V 0.0 A <td></td> <td></td>		
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operational current of auxiliary contacts at DC-13 90	•	
• or 3-phase motors at 400 V at 50 Hz 90	· ·	630 A
• for AC motors at 500 V at 50 Hz132400 KWAuxiliary circuitintegratedAuxiliary contacts for auxiliary contacts11• noteintegrated• notefor contactor disconnection• notefor contactor disconnection• notefor contactor disconnection• notefor massage 'lupped'• note0• note0 <t< td=""><td></td><td></td></t<>		
• or AC maters at 690 V at 50 H2 160 600 kW Auxiliary circuit Integrated order for contracts for auxiliary contacts 1 • onde for contacts for contacts of auxiliary contacts 1 • onde for message "tropped" mumber of NO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 - • at 24 V 4A • at 125 V 4A • at 125 V 4A • at 125 V 3A • at 24 V 4A • at 120 V 4A • at 120 V 3A • at 20 V 0.35 A • at 120 V 0.35 A • at 220 V 0.31 A • at 220 V 0.31 A • at 220 V 0.34 A • at 220 V 0.34 A • at 220 V 0.35 A • at 400 V rated value 60 A • at 200 V rated value 60 A • at 200 V rated value 60 A • at 200 V rated value 60 A • at 800 V rated value<		
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number of NC contacts for auxiliary contacts 1 ende for contactor disconnection number of NC contacts for auxiliary contacts 1 ende for message "httpped" number of NC contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 4A eit 120 V 4A eit 220 V 3A operational current of auxiliary contacts at DC-13 - eit 120 V 0.55 A eit 120 V 0.3A eit 120 V 0.3A eit 220 V 0.3A eit 220 V 0.3A eit 200 V rated value 630 A eit 800 V rated value 630 A		
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number of NO contacts for auxiliary contacts 1 • note for message "hipped" number of CO contacts for auxiliary contacts 0 opportional current of auxiliary contacts at AC-15 4.A • at 210 V 4.A • at 120 V 4.A • at 220 V 3.A opportional current of auxiliary contacts at DC-13 2.A • at 230 V 3.A opportional current of auxiliary contacts at DC-13 2.A • at 24 V 4.A • at 25 V 3.A opportional current of auxiliary contacts at DC-13 2.A • at 26 V 0.3.A • at 270 V 0.3.A • at 280 V rated value 630 A • at 480 V rated value 630 A • at 480 V rated value 630 A • at 480 V rated value 630 A • of solor-circuit protection gc: 600 A, Class L: 1600 A 9 of solor-circuit protection of the auxilary soluth required 10 mm • of solor-circuit protection of the auxilary soluth required 120 mm • of solor-circuit protection of the auxilary soluth required <td>number of NC contacts for auxiliary contacts</td> <td>1</td>	number of NC contacts for auxiliary contacts	1
• noisfor message "hipped"number of CO contacts is AC-150• at 24 V4 A• at 120 V4 A• at 120 V4 A• at 123 V3 Aoperational current of auxiliary contacts at DC-133 A• at 24 V2 A• at 26 V0.55 A• at 27 V0.3 A• at 27 V0.3 A• at 28 V0.3 A• at 30 V rated value630 A• at 800 V rated value630 A• of at short-cicult protection of the auxiliary contacts according to UL• for short-cicult protection of the auxiliary contacts630 A• for short-cicult protection of the auxiliary contacts63		for contactor disconnection
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operational current of auxiliary contacts at AC-15 4 A • at 24 V 4 A • at 120 V 4 A • at 120 V 4 A • at 125 V 4 A • at 24 V 4 A • at 25 V 4 A • at 24 V 2 A • at 20 V 2 A • at 20 V 0.55 A • at 20 V 0.3 A • at 220 V 0.11 A Protective and monitoring functions trip class CLASS 20E electronic UICSA ratings TUI-load current (FLA) for 3-phase AC motor • at 480 V rated value 630 A • at 600 V rated value 630 A • at 600 V rated value 630 A • for short-circuit protection of the main circuit g6: 800 A, Class L: 1800 A - with type of coordination 1 required g6: 800		
• at 24 V 4A • at 110 V 4A • at 120 V 4A • at 120 V 4A • at 220 V 3A • at 230 V 3A • at 24 V 2A • at 24 V 0.55 A • at 10 V 0.3 A • at 125 V 0.3 A • at 220 V 0.11 A Protective and monitoring functions CLASS 20E tip class CLASS 20E design of the overload release electronic U/CSA ratings F full-dad current (FLA) for 3-phase AC motor 630 A • at 800 V rated value 630 A • at 600 V rated value 630 A • at 600 V rated value 630 A • of or short-circuit protection of the main circuit - • for short-circuit protection of the main circuit - • of or short-circuit protection of the main circuit - • of or short-circuit protection of the main circuit - • of or short-circuit protection of the main circuit - • of or short-circuit protection of the auxiliary switch required gC: 800 A, Class L: 1600 A </td <td>•</td> <td>0</td>	•	0
• at 110 ∨ 4 Å • at 120 ∨ 4 Å • at 120 ∨ 3 Å • at 230 ∨ 3 Å oparational current of auxiliary contacts at DC-13 - • at 24 ∨ 2 Å • at 60 ∨ 0.55 Å • at 110 ∨ 0.55 Å • at 125 ∨ 0.3 Å • at 120 ∨ 0.3 Å • at 125 ∨ 0.3 Å • at 125 ∨ 0.3 Å • at 125 ∨ 0.3 Å • at 220 ∨ 0.11 Å Protectiva and montoring functions - trip class CLASS 20E design of the overload release electronic U/LCSA rating - full-load current (FLA) for 3-phase AC motor - • at 480 ∨ rated value 630 Å • at 480 ∨ rated value 630 Å • at 480 ∨ rated value 630 Å • oth or short-circuit protection of the main circuit - - oth hype of coordination 1 required g6: 600 Å Class L: 1600 Å - oth hype of coordination 1 required g6: 630 Å - with hype of ossignment 2 required g6: 630 Å - with hype of coordination 1 required g6: 630 Å - with hype of coordination 1 required g6: 630 Å - oth hype of coordination 1 required g		
• at 120 ∨ 4 A • at 125 ∨ 4 A • at 230 ∨ 3 A operational current of auxiliary contacts at DC-13 - • at 24 ∨ 2 A • at 60 ∨ 0.55 A • at 105 ∨ 0.3 A • at 220 ∨ 0.11 A Protective and monitoring functions - trip class CLASS 20E design of the overload release electronic UL/GSA ratings - full-load current (FLA) for 3-phase AC motor - • at 400 ∨ rated value 630 A • at 600 ∨ rated value 630 A • or short-frictul protection of the main circuit - - with type of axiliary contacts according to UL B600 / R300 Short-dricul protection of the main circuit - - with type of assignment 2 required gG: 800 A, Class L: 1600 A - with type of assignment 2 required gG: 800 A, Class L: 1600 A - with type of assignment 2 required gG: 800 A, Class L: 1600 A - with type of assignment 2 required gG: 800 A, Class L: 1600 A - for short-fricul protection of the axiliary sonth required In any <td></td> <td>4 A</td>		4 A
• at 125 V 4 A • at 230 V 3 A operational current of auxiliary contacts at DC-13		
• at 230 V 3A operational current of auxiliary contacts at DC-13 2 • at 260 V 0.55 A • at 100 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 trip class CLASS 20E design of the overload release electronic ULUE3 A ratings CLASS 20E design of the overload release electronic ULUE3 A ratings CLASS 20E design of the overload release electronic ULUE3 A ratings CLASS 20E design of the overload release electronic ULUE3 A ratings CLASS 20E design of the overload release 630 A • at 480 V rated value 630 A • at 600 V rated value 630 A • for short-circuit protection B800 / R300 Short-circuit protection of the main circuit gG: 800 A, Class L: 1600 A • for short-circuit protection of the auxiliary switch required gG: 803 A • for short-circuit protection of the auxiliary switch required gG: 803 A • for auxiliary contacts Contact rating and control circuit height 119 mm with 120 mm <td>• at 120 V</td> <td>4 A</td>	• at 120 V	4 A
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	• at 230 V	3 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 tailings full-load current (FLA) for 3-phase AC motor • • at 480 V rade value 630 A • at 600 V rade value 630 A • at 600 V rade value 630 A • at 600 V rade value 630 A • or short-circuit protection of the main circuit - - with type of coordination 1 required gG: 600 A, Class L: 1600 A - with type of coordination 1 required gG: 600 A, Class L: 1600 A - with type of assignment 2 required gG: 600 A, Class L: 1600 A - with type of assignment 2 required gG: 600 A, Class L: 1600 A - with type of assignment 2 required gG: 600 A, Class L: 1600 A - with type of assignment 2 required gG: 600 A, Class L: 1600 A - bir or auxiliary switch required If the gG: 60 A Installation/ mounting/ dimensions mounting / dimensions<	operational current of auxiliary contacts at DC-13	
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	• at 60 V	0.55 A
• at 220 V 0.11 A Protective and monitoring functions CLASS 20E 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 630 A • at 600 V rated value 630 A • at 600 V rated value 630 A • at 600 V rated value 630 A contact rating of auxiliary contacts according to UL B600 / R300 Short-circuit protection GE 800 A, Class L: 1600 A • for short-circuit protection of the main circuit	• at 110 V	0.3 A
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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 for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions mounting position 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 control circuit busbar connection for main current circuit busbar connection for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for auxiliary contacts arsangement of alectrical connects for auxiliary contacts arong and buttor 2x (0.25 1.5 mm²) (0.25 1.5 mm²) (0.25 1.5 mm²) 	contact rating of auxiliary contacts according to UL	B600 / R300
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height 119 mm width 120 mm depth 155 mm Connections/ Terminals Yes product component removable terminal for auxiliary and control circuit Yes type of electrical connection busbar connection • for main current circuit busbar connection arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts - solid 2x (0.25 1.5 mm²)	mounting position	any
width 120 mm depth 155 mm Connections/Terminals Frequencies product component removable terminal for auxiliary and control circuit Yes type of electrical connection Ves • for main current circuit busbar connection • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections - solid • for auxiliary contacts 2x (0.25 1.5 mm²)	fastening method	Contactor mounting/stand-alone installation
depth 155 mm Connections/ Terminals Yes product component removable terminal for auxiliary and control circuit Yes type of electrical connection usbar connection • for main current circuit busbar connection • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections Zx (0.25 1.5 mm²)	height	119 mm
Connections/ Terminals product component removable terminal for auxiliary and control circuit Yes type of electrical connection busbar connection • for main current circuit busbar connection • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections - solid 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)	width	120 mm
product component removable terminal for auxiliary and control circuit Yes type of electrical connection busbar connection • for main current circuit busbar connection • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections - solid 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)		155 mm
control circuit type of electrical connection • for main current circuit busbar connection • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections - solid • for auxiliary contacts 2x (0.25 1.5 mm²)	Connections/ Terminals	
• for main current circuit busbar connection • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections - for auxiliary contacts • for auxiliary contacts 2x (0.25 1.5 mm²)		Yes
• for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 2x (0.25 1.5 mm²)	type of electrical connection	
arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections for auxiliary contacts — solid 2x (0.25 1.5 mm²) 	 for main current circuit 	busbar connection
circuit Image: Constant of the section of the secti	 for auxiliary and control circuit 	spring-loaded terminals
for auxiliary contacts		Top and bottom
solid 2x (0.25 1.5 mm ²)	type of connectable conductor cross-sections	
	 for auxiliary contacts 	
— solid or stranded 2x (0,25 1,5 mm ²)	— solid	2x (0.25 1.5 mm²)
	— solid or stranded	2x (0,25 1,5 mm²)

— finely strand	ded with core end process ded without core end proc	-	2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)			
	for AWG cables for auxiliary contacts		2x (24 16)			
tightening torque						
 for main contacts 	s with screw-type termina	ls	20 22 N·m			
-	of the connection screw					
 for main contacts 	;		M10			
Electrical Safety						
	the front according to		IP00; IP20 with box terminal/cover			
-	ne front according to IE	C 60529	finger-safe, for vertical co	ontact from the front with	n box terminal/cover	
Communication/ Protoc						
	y via input/output link m	aster	No			
Electromagnetic compa						
conducted interferenc						
	due to burst according to IEC 61000-4-4				ds 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 61000-4-5 	-conductor surge accordi	ng to IEC	1 kV (line to line) corresp	onds to degree of sever	ity 3	
	lency radiation according	to IEC 61000-	10 V in frequency range	0.15 to 80 MHz, modula	tion 80 % AM with 1 kHz	
field-based interference	ce according to IEC 610	00-4-3	10 V/m			
-	e according to IEC 6100)0-4-2	6 kV contact discharge /	8 kV air discharge		
Display						
display version for swite	ching status		Slide switch			
Approvals Certificates						
	<u>Confirmation</u>	CE EG-Konf.	UK CA	U	EHC	
EMV		For use in haza ous locations	rd- Test Certificates	5	Marine / Shipping	
	<u>KC</u>	(Ex)	<u>Special Test Cer</u> <u>ate</u>	ific- <u>Type Test Cer</u> <u>ates/Test Re</u> ;		
		ATEX				
Marine / Shipping		ALEA	other		Environment	
Marine / Shipping	Lloyd's Kegister uis	RINA	other Confirmation	Miscellaneo		
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