SIEMENS

Data sheet

3RB2066-2GC2

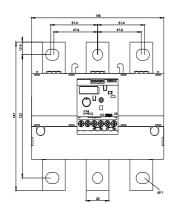
Overload relay 55...250 A for motor protection Size S10/S12, Class 20E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset

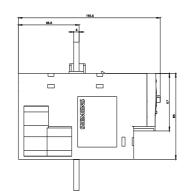


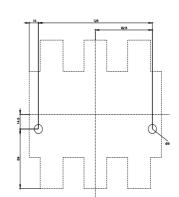
product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB2
General technical data	
size of overload relay	S10, S12
size of contactor can be combined company-specific	S10, S12
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage 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
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- dependent overload release	55 250 A

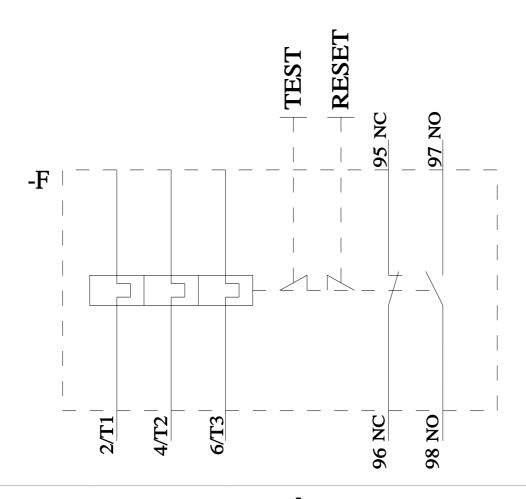
operating request 		
• • • AC Seriel value maximum1000 Voperational current rated value50. 00 Hzoperational current rated value250 Aoperational current rated value250 Aoperational current rate ACS et alCOV rated value250 Aoperational current rate ACS et alCOV rated value250 Aoperational current rate ACS et alCOV rated value250 Aoperation current of exalling contacts1operation current of exalling contacts at AC-15-operational current of exalling contacts at DC-13-operational current of exalling contacts at DC-13- <td< th=""><th>operating voltage</th><th>4 000 \/</th></td<>	operating voltage	4 000 \/
operational current at AC36 at 400 V rade value 260 A operational current at AC36 at 400 V rade value 260 A operational current at AC36 at 400 V rade value 260 A operational current at AC36 at 400 V rade value 260 A operational current at AC36 at 400 V rade 0 Vrade value 30 132 kW • (or A phase motion at 400 V at 50 Hz 45 100 kW • (or A constacts for a sulliary contacts 1 • (or A constacts for auxiliary contacts 1 • or at 40 V at 50 Hz 55 250 kW • or at 40 V at 50 Hz 56 250 kW • or at 40 V at 50 Hz 50 250 kW • or at 40 V at 50 Hz 50 250 kW • or at 40 V at 50 Hz 50 250 kW • or at 40 V at 50 Hz 50 250 kW • or at 40 V 4A • or at 40 V 4A • or at 50 V 4A • or at 50 V 3A • or at 50 V 3A • or at 50 V 3A • or at 50 V		
operational current rated value 260 A operating power 260 A • (r 3 - phase motors at 400 V at 50 Hz 30 132 kW • (r A - notes at 600 V at 50 Hz 55 250 kW • (r A - notes at 600 V at 50 Hz 55 250 kW • (r A - notes at 600 V at 50 Hz 55 250 kW • (r A - notes at 600 V at 50 Hz 55 250 kW • (r A - notes at 600 V at 50 Hz 55 250 kW • (r A - notes at 600 V at 50 Hz 55 250 kW • (r A - notes at 600 V at 50 Hz 67 000 kW • (r A - notes at 600 V at 50 Hz 67 000 kW • (r A - notes for auxiliary contacts 0 • (r A - Notes for auxiliary contacts at A - 5 - • (r A - Notes for auxiliary contacts at A - 5 - • (r A - Notes for auxiliary contacts at A - 5 - • (r A - Notes for auxiliary contacts at D - 13 - • (r A - Notes for auxiliary contacts at D - 13 - • (r A - Notes for auxiliary contacts at D - 13 - • (r A - Notes for auxiliary contacts at D - 13 - • (r A - Notes for auxiliary contacts at D - 13 - • (r A - Notes for auxiliary contact		
operating power 260 A operating power 450 A • for A phase motors at 400 V at 50 Hz 30 132 kW • for A C motors at 500 V at 50 Hz 45 160 kW • for A choices at 500 V at 50 Hz 55 250 kW • for A choices at 500 V at 50 Hz 55 250 kW Auxiliary circuit 1 • code for Contacts for auxiliary contacts 1 • code for contacts of auxiliary contacts 1 • code for contacts of auxiliary contacts at AC-15 - • exitary 4 A - • exitary 0 A - • exit		
operational control at 400 V at 50 Hz 20 - 132 kW • for AC motors at 500 V at 50 Hz 45 -, 160 kW • for AC motors at 500 V at 50 Hz 45 -, 160 kW • for AC motors at 500 V at 50 Hz 45 -, 160 kW • for AC motors at 500 V at 50 Hz 45 -, 160 kW • for contacts for auxiliary contacts 1 • for contacts for auxiliary contacts 1 • inther of AC contacts for auxiliary contacts 0 • operational current of auxiliary contacts 0 • int10 V 4A • int10 V 0 • int23 V 0 • int24 V 0 • int25 V 0 • int35 V 0.0 A • int36 V 0.11 A Protective and monitoring functions E • int36 V 0.11 A Protective and monitoring totacts according to U 250 A • int36 V findid value 260 A	•	
• • or S-phase metons at 400 vit 50 Hz40 - 132 kW• • for AC motors at 600 vit 50 Hz45 - 250 kWAunitary creatifintegratededisgin of the auxiliary contacts1• notofor contacts for auxiliary contacts• notofor contacts for auxiliary contacts• notofor contacts for auxiliary contacts• notofor message "tripped"• notofor message "tripped" <t< th=""><th>operational current at AC-3e at 400 V rated value</th><th>250 A</th></t<>	operational current at AC-3e at 400 V rated value	250 A
• for AC motors at 500 V at 50 Hz45 120 kWAuxilary drawtIntegratedAuxilary drawtIntegratedAuxilary or activation or auxiliary contacts10• notoIntegrated• notoInte	operating power	
• for AC motion at 800 V at 50 H255280 kWAuxiliary circuitintigratedfunder of NC contacts for auxiliary contacts1• notefor contactor disconnectionnumber of NO contacts for auxiliary contacts1• notefor message "tripped"• note4A• at 24 V4A• at 150 V4A• at 24 V3A• at 250 V3A• at 24 V0.35 A• at 24 V0.35 A• at 24 V0.36 A• at 250 V0.34 A• at 250 V0.36 A• at 260 V0.36 A• at 270 V0.36 A• at 280 V0.36 A• at 380 V nation (anctona)If jelaesClass 206 A• at 380 V national (anctona)If jelaes (ancent (FLA) for 3 phase AC motor• at 380 V national (ancent (FLA) for 3 phase AC motor• at 380 V national (ancent (FLA) for 3 phase AC motor• at 380 V national (ancent (FLA) for 3 phase AC motor• at 380 V national (ancent (FLA) for 3 phase AC motor• at 380 V national (ancent (FLA) for 3 phase AC motor• at 380 V nat davias• for short-circuit p	 for 3-phase motors at 400 V at 50 Hz 	30 132 kW
Auxiliary circuit eleging of the auxiliary solution design of the auxiliary solutions 1 • note for contacts for auxiliary contacts • note for contacts for auxiliary contacts • note for contacts for auxiliary contacts • note for message "tripped" • number of No contacts for auxiliary contacts at AC-15 0 • elit24 V 4A • elit21 V 4A • elit21 V 4A • elit21 V 4A • elit22 V 4A • elit24 V 4A • elit22 V 4A • elit22 V 0.55 A • elit21 V 0.3A • elit22 V 0.3A • elit22 V 0.3A • elit22 V 0.3A • elit22 V 0.3A • elit20 V 0.3A	 for AC motors at 500 V at 50 Hz 	45 160 kW
design of the auxiliary switch integrated number of NC contacts for auxiliary contacts 1 in ote for contactor disconnection number of NC contacts for auxiliary contacts 1 in ote for contactor disconnection number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 4A iii 124 V 4A iii 125 V 4A iii 126 V 4A iii 128 V 3A operational current of auxiliary contacts at DC-13 3A iiii 128 V 0. iiii 128 V 0. iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	 for AC motors at 690 V at 50 Hz 	55 250 kW
number of NC contacts for auxiliary contacts 1 incode for contactor disconnection number of NC contacts for auxiliary contacts 1 incode for message "tripped" number of CC contacts for auxiliary contacts at AC-15 4 int 10 V 4A int 10 V 4A int 12 V 4A int 12 V 4A int 23 V 4A int 24 V int 23 V int 24 V 2A int 24 V 0.55 A int 10 V 0.54 A int 22 V 0.3A int 28	Auxiliary circuit	
	design of the auxiliary switch	integrated
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 4.A • alt 24 V 4.A • att 25 V 4.A • att 25 V 4.A • att 24 V 4.A • att 25 V 4.A • att 24 V 2.A • att 24 V 0.3.A • att 25 V 0.3.A • att 25 V 0.3.A • att 26 V 0.3.A • att 220 V 0.3.A • att 200 V rated value 250.A • att 800 V rated value 260.A • att 800 V rated value 260.A • for sho	number of NC contacts for auxiliary contacts	1
notefor message "hipped"number of CO contacts at auxiliary contacts at AC-150or 24 V4.Aof 24 V4.Aof 120 V4.Aof 120 V3.Aof 250 V3.Aoperational current of auxiliary contacts at DC-133.Aof 250 V0.55 Aof 120 V0.55 Aof 120 V0.3Aof 220 V0.3Aof 220 V0.3Aof 220 V0.3Aof 120 V0.3Aof 220 V0.11 AProtective and monitoring functions0thip classCLASS 20Edesign of the overload releaseelectronicULCSA ratings0of 120 V crade value250 Aof at 200 V rated value250 Aof a short-circuit protection of the main circuit0of a short-circuit protection of the auxiliary switch required10000of a short-circuit protection of the auxiliary switch required10000of a short-circuit protection of the auxiliary and contor circuit260 Aof a short-circuit protection of the auxiliary and contor circuit100000of a short-circuit protection100000fuel destinal and contor ci	• note	for contactor disconnection
number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 4A • at 24 V 4A • at 110 V 4A • at 125 V 4A • at 230 V 2A • at 60 V 0.55 A • at 125 V 0.3 A • at 125 V 0.3 A • at 125 V 0.3 A • at 220 V 0.3 A • at 220 V 0.3 A • at 220 V 0.3 A • at 20 V 0.3 A • at 480 V rated value 260 A • at 480 V rated value 260 A • at 480 V rated value 260 A • or short-circuit protection of the main circuit - with type of assignment 2 required - with type of assignment 2 required 96: 500 A. Class L: 700 A - or short-circuit protection of the auxiliary and circuit 120	number of NO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15 4 A • at 24 V 4 A • at 120 V 4 A • at 220 V 3 A operational current of auxiliary contacts at DC-13 3 A • at 20 V 0.55 A • at 20 V 0.3 A • at 220 V 0.3 A • at 220 V 0.11 A Protoctive and monitoring functions Trip class • at 200 V 0.11 A Protoctive and monitoring functions Electronic UL/SA ratings CLASS 20E Idui-oad current (FLA) for 3-phase AC motor . • at 480 V rated value 250 A • at 480 V rated value 250 A • at 480 V rated value 250 A • or short-circuit protection of the main circuit	• note	for message "tripped"
• al:24 V4 A• al:110 V4 A• al:120 V4 A• al:125 V4 A• al:230 V3 A• al:24 V2 A• al:24 V0.55 A• al:25 V0.3 A• al:25 V0.3 A• al:26 V0.3 A• al:25 V0.3 A• al:26 V0.3 A• al:25 V0.3 A• al:25 V0.3 A• al:26 V0.3 A• al:26 V0.3 A• al:27 V0.3 A• al:28 V0.3 A• al:20 V250 A• cortact rating of auxiliary contacts according to UL260 A• cortact rating of auxiliary contacts according to UL260 A• for short-circuit protection of the main circuit • for short-circuit protection of the main circuit • for short-circuit protection of the auxiliary switch required • gc: 500 A, Class L: 700 A • gc: 60 A• for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for main current circuit • for auxiliary and cortot circuit • for auxiliary and cortot	number of CO contacts for auxiliary contacts	0
• at 110 ∨4 A• at 120 ∨4 A• at 120 ∨3 A• at 230 ∨3 Aoperational current of auxiliary contacts at DC-13-• at 24 ∨2 A• at 60 ∨0.55 A• at 110 ∨0.3 A• at 125 ∨0.3 A• at 125 ∨0.3 A• at 125 ∨0.3 A• at 125 ∨0.11 AProtective and montoring functionseteronicU/CSA rating20 A• at 460 ∨ rated value260 A• at 460 ∨ rated value250 A• at 600 ∨ rated value250 A• for short-circuit protection of the main circuitg6: 500 A, Class L: 700 A• for short-circuit protection of the main circuitg6: 500 A• for short-circuit protection of the suillary witch requiredg6: 500 A• for short-circuit protection of the suillary sitch required119 mm• for short-circuit protection of the suillary sitch required120 mm• for short-circuit protection of the suillary and control circuitserew-type terminals• for short-circuit protection for main current circuitto mm• for on acclary and control circuitserew-type terminals<	operational current of auxiliary contacts at AC-15	
• at 120 ∨4 A• at 125 ∨4 A• at 230 ∨3 Aoperational current of auxiliary contacts at DC-132 A• at 24 ∨2 A• at 80 ∨0.55 A• at 100 ∨0.3 A• at 125 ∨0.3 A• at 120 ∨0.3 A• at 220 ∨0.11 AProtective and monitoring functionsCLASS 20Edesign of the overload releaseelectronicU/C5A ratingsCLASS 20Efull-load current (FLA) for 3-phase AC motor•• at 480 ∨ rated value250 A• or short-circuit protectiongc: 500 A, Class L: 700 A• or short-circuit protection of the main circuitgc: 500 A, Class L: 700 A• or short-circuit protection of the auxiliary sonitch requiredgc: 600 A, Class L: 700 A• or short-circuit protection of the auxiliary sonitch requiredgc: 600 A, Class L: 700 A• or short-circuit protection of the auxiliary sonitch requiredgc: 600 A, Class L: 700 A• or short-circuit protection of the auxiliary sonitch requiredgc: 600 A, Class L: 700 A• or short-circuit protection of the auxiliary sonitch requiredgc: 600 A, Class L: 700 A• or short-circuit protection of the auxiliary and control circuitgc: 600 A, Class L: 700 A• or short-circuit protectionif and control circuit• or short-circuit protectionif and control circuit• or auxiliary and	• at 24 V	4 A
• at 125 ∨ 4 A • at 230 ∨ 3 A operational current of auxiliary contacts at DC-13	• at 110 V	4 A
• et 230 ∨ 3 A operational current of auxiliary contacts at DC-13 2 • at 26 ∨ 2 A • at 60 ∨ 0.55 A • at 110 ∨ 0.3 A • at 125 ∨ 0.3 A • at 220 ∨ 0.11 A Protective and monitoring functions electronic UL/C5A ratings CLASS 20E design of the overload release electronic UL/C5A ratings CLASS 20E design of the overload release electronic UL/C5A ratings CLASS 20E design of the overload release electronic UL/C5A ratings CLASS 20E design of the overload release 250 A • at 480 ∨ rated value 250 A • at 600 ∨ rated value 250 A • of at 00 ∨ rated value 250 A • for short-circuit protection of the main circuit - with type of coordination 1 required • for short-circuit protection of the auxiliary switch required gG: 500 A, Class L: 700 A • of short-circuit protection of the auxiliary switch required gG: 500 A, Class L: 700 A • of with type of coordination 1 required gG: 500 A, Class L: 700 A • of short-circuit protection of the auxiliary and control of the auxiliary switch required gG: 500 A • for short-circuit protection Gesign A <th>• at 120 V</th> <th>4 A</th>	• at 120 V	4 A
operational current of auxiliary contacts at DC-13 2 A • at 24 V 2 A • at 80 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 electonic UUCSA ratings CLASS 20E full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 480 V rated value 250 A • at 480 V rated value 250 A • at 480 V rated value 250 A • or short-circuit protection of the main circuit - with type of coordination 1 required • for short-circuit protection of the sualitary switch required g6: 500 A, Class L: 700 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions any festening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Contactor mounting/stand-alone installation height 19 mm type of electrical connection busbar connection <th>• at 125 V</th> <th>4 A</th>	• at 125 V	4 A
• 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 current (FLA) for 3-phase AC motor electronic UL/CSA ratings UL/CSA ratings UL/CSA ratings 250 A • at 480 V rated value 250 A • at 480 V rated value 250 A • at 600 V rated value 250 A • at 600 V rated value 260 A • otr short-circuit protection of the main circuit gc: 500 A, Class L: 700 A • for short-circuit protection of the main circuit gc: 500 A, Class L: 700 A • for short-circuit protection of the auxiliary switch required gc: 500 A, Class L: 700 A • for short-circuit protection of the auxiliary switch required gc: 500 A, Class L: 700 A • for short-circuit protection of the auxiliary switch required gc: 500 A, Class L: 700 A • for short-circuit protection of the auxiliary switch required gc: 500 A, Class L: 700 A • for short-circuit protection of the auxiliary and gc: 500 A • for short-circuit protection of the auxiliary and for short-circuit protection of the auxili	• at 230 V	3 A
• at 60 V 0.55 Å • at 110 V 0.3 Å • at 220 V 0.3 Å • at 220 V 0.11 Å Protective and monitoring functions 0.11 Å trip class CLASS 20E design of the overload release electronic UL/CSA ratings 0.11 Å full-load current (FLA) for 3-phase AC motor • • at 400 V rated value 250 Å • at 400 V rated value 250 Å • at 600 V rated value 250 Å Stort-circuit protection of the main circuit • • for short-circuit protection of the main circuit 00: 500 Å • for short-circuit protection of the main circuit 96: 500 Å • for short-circuit protection of the auxiliary switch required 96: 500 Å Instalation/ mounting/ dimensions any mounting position any fastening method 119 mm height 119 mm width 120 mm component removable terminal for auxiliary and Yes Connectional Connection sorew-type terminals romain current of electrical connectors for main current of circuit sorew-type terminals romain current of circuit sorew-type terminals romain current of electrical connectors for main current of circuit sorew	operational current of auxiliary contacts at DC-13	
• at 110 V0.3 A• at 125 V0.3 A• at 220 V0.11 AProtective and monitoring functionstrip classCLASS 20Edesign of the overload releaseelectronicJU/CSA ratingsU/CSA ratingsfull-load current (FLA) for 3-phase AC motore. at 480 V rated value• at 480 V rated value250 A• at 600 V rated value250 A• at 600 V rated value250 A• at 600 V rated value250 A• or thor-tricrult protectionB600 / R300Short-sircult protectiong6: 500 A, Class L: 700 A• for short-circult protection of the main circuit - with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary and control circuitContactor mounting/stand-alone installation • for auxiliary and control circuit • for auxiliary and control circuitYestype of electrical connectors • for auxiliary and control circuittype and bottom circuit • for auxiliary contacts 	• at 24 V	2 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 UL/SA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 250 A • at 600 V rated value 250 A • at 600 V rated value 250 A • ortated value 250 A • for short-circuit protection of the main circuit g6: 500 A, Class L: 700 A • for short-circuit protection of the auxilary switch required f0: 500 A Instalizionr mounting/ dimensions	• at 60 V	0.55 A
	• at 110 V	0.3 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 • at 600 V rated value 250 A • at 600 V rated value 250 A • ontact 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 condination 1 required - with type of assignment 2 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 any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals Yes product component removable terminal for auxillary and control circuit screw-type terminals •	• at 125 V	0.3 A
trip class CLASS 20E design of the overload release electronic UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 400 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 gG: 500 A, Class L: 700 A - with type of coordination 1 required gG: 500 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions any mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals Yes product component removable terminal for auxiliary and control circuit Screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom • for auxiliary and control circuit Top and bottom • for auxiliary and control circuit screw-type terminals arrangement of electri	• at 220 V	0.11 A
trip class CLASS 20E design of the overload release electronic UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 400 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 gG: 500 A, Class L: 700 A - with type of coordination 1 required gG: 500 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions any mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals Yes product component removable terminal for auxiliary and control circuit Screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom • for auxiliary and control circuit Top and bottom • for auxiliary and control circuit screw-type terminals arrangement of electri	Protective and monitoring functions	
design of the overload release electronic UL/CSA ratings Initial current (FLA) for 3-phase AC motor 250 A • at 400 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 gG: 500 A, Class L: 700 A • for short-circuit protection of the main circuit - with type of coordination 1 required - 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 gG: 500 A installation/mounting/dimensions any mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals Yes product component removable terminal for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit sc		CLASS 20E
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 GG: 500 A, Class L: 700 A design of the fuse link - with type of coordination 1 required - with type of assignment 2 required gG: 500 A, Class L: 700 A - with type of assignment 2 required GG: 500 A - with type of assignment 2 required gG: 500 A - with type of assignment 2 required fuse gG: 6 A Installation/ mounting/ dimensions any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals Yes product component removable terminal for auxiliary and control circuit busbar connection • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit busbar connection • for auxiliary and control circuit Top and bottom type of connectable conductor cross-sections - solid<	•	electronic
• 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 Gersion O 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 tgG: 500 A • for short-circuit protection of the auxiliary switch required tgG: 500 A • for short-circuit protection of the auxiliary switch required tgG: 500 A • fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth Torminals product component removable terminal for auxiliary and control circuit Ves • for main current circuit busbar connection • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom • for auxiliary contacts Top and bottom • for auxiliary contacts - solid 1x (0.5 4 mm²), 2x (0.5 2.5 m²)	UL/CSA ratings	
• 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 - 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 any mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals Yes product component removable terminal for auxiliary and control circuit screw-type terminals type of electrical connection tobusar connection • for main current circuit busbar connection • for auxiliary and control circuit Top and bottom type of connectable conductor cross-sections Top and bottom • for auxiliary contacts - solid	full-load current (FLA) for 3-phase AC motor	
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 gG: 500 A 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 any 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 of main current circuit busbar connection of or auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit for auxiliary contacts of or auxiliary contacts - solid tx (0.5 4 mm²), 2x (0.5 2.5 mm²) 	• at 480 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 gG: 500 A for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals product connection for main current circuit busbar connection of main current circuit busbar connection of main current circuit busbar connection of main current circuit screw-type terminals arrangement of electrical connectors for main current circuit of connectable conductor cross-sections of auxiliary contacts - solid x (0.5 4 mm³), 2x (0.5 2.5 mm³) 	• at 600 V rated value	250 A
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 gG: 500 A for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions mounting position any 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 screw-type terminals arrangement of electrical connectors for main current circuit for auxiliary contacts – solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 	contact rating of auxiliary contacts according to UL	
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 gG: 500 A for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions mounting position any 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 screw-type terminals arrangement of electrical connectors for main current circuit for auxiliary contacts – solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 	Short-circuit protection	
• for short-circuit protection of the main circuitgG: 500 A, Class L: 700 A- with type of coordination 1 requiredgG: 500 A, Class L: 700 A- with type of assignment 2 requiredgG: 500 A• for short-circuit protection of the auxiliary switch requiredfuse gG: 6 AInstallation/ mounting/ dimensionsanyfastening methodContactor mounting/stand-alone installationheight119 mmwidth120 mmdepth155 mmConnections/ TerminalsYesproduct component removable terminal for auxiliary and control circuitYestype of electrical connectionscrew-type terminals• for main current circuitbusbar connection• for auxiliary and control circuitTop and bottomarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections • for auxiliary contacts - solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
- with type of coordination 1 requiredgG: 500 A, Class L: 700 A- with type of assignment 2 requiredgG: 500 A• for short-circuit protection of the auxiliary switch requiredfuse gG: 6 AInstallation/ mounting/ dimensionsanyfastening methodContactor mounting/stand-alone installationheight119 mmwidth120 mmdepth155 mmConnections/ TerminalsYesproduct component removable terminal for auxiliary and control circuitYestype of electrical connectionbusbar connection• for main current circuitbusbar connection• for auxiliary and control circuitTop and bottomarrangement of electrical connectors for main current circuitTop and bottom• for auxiliary contacts- solid• for auxiliary contacts- solid• for auxiliary contacts1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	-	
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 any mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm Connections/ Terminals Yes product component removable terminal for auxiliary and control circuit busbar connection • for main current circuit busbar connection • for main current circuit Screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts - solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	-	gG: 500 A. Class L: 700 A
• for short-circuit protection of the auxiliary switch required fuse gG: 6 A Installation/ mounting/ dimensions any fastening method Contactor mounting/stand-alone installation 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 auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom • for auxiliary contacts - solid • for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		-
Installation/ mounting/ dimensions mounting position any 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 Yes type of electrical connection busbar connection • for auxiliary and control circuit busbar connection arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts - solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		-
mounting position any fastening method Contactor mounting/stand-alone installation 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 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
fastening method Contactor mounting/stand-alone installation 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 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		any
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 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
width 120 mm depth 155 mm Connections/ Terminals Freminals 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 screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
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 Top and bottom • for auxiliary contacts Ix (0.5 4 mm²), 2x (0.5 2.5 mm²)		
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 screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts - solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
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 screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts - solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
control circuit type of electrical connection • for main current circuit busbar connection • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		Voc
• for main current circuit busbar connection • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	control circuit	
• for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections for auxiliary contacts — solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 		
circuit for connectable conductor cross-sections • for auxiliary contacts - solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	· · · · · · · · · · · · · · · · · · ·	
• for auxiliary contacts — solid 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²)		Top and bottom
solid 1x (0.5 4 mm ²), 2x (0.5 2.5 mm ²)	type of connectable conductor cross-sections	
	 for auxiliary contacts 	
solid or stranded 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²)	— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
	— solid or stranded	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)

-	ed with core end proces or auxiliary contacts	sing	1x (0.5 2.5 mm ²), 2x (0.5 2x (20 14)	1.5 mm²)	
	or auxiliary contacts				
tightening torque	with a second to a large		00 00 N		
	with screw-type termina		20 22 N·m		
· · · · ·	icts with screw-type term		0.8 1.2 N·m		
design of the thread of	f the connection screw	,			
 for main contacts 			M10		
of the auxiliary and control contacts			M3		
Electrical Safety					
protection class IP on the front according to IEC 60529			IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529		finger-safe, for vertical contact		erminal/cover	
Communication/ Protocol					
type of voltage supply via input/output link master			No		
		laster	NO		
Electromagnetic compa					
conducted interference	e				
 due to burst acco 	rding to IEC 61000-4-4		2 kV (power ports), 1 kV (signa	al ports) corresponds to d	egree of severity 3
 due to conductor- 	earth surge according to	DIEC 61000-4-5	2 kV (line to earth) correspond	Is to degree of severity 3	
61000-4-5	conductor surge accord	-	1 kV (line to line) corresponds	to degree of severity 3	
 due to high-freque 4-6 	ency radiation according	to IEC 61000-	10 V in frequency range 0.15 t	o 80 MHz, modulation 80	% AM with 1 kHz
field-based interference	e according to IEC 610	000-4-3	10 V/m		
electrostatic discharge	e according to IEC 610	00-4-2	6 kV contact discharge / 8 kV	air discharge	
Display					
display version for switc	hing status		Slide switch		
Approvals Certificates					
					LIIL
ccc	СН	EG-Konf.		UL	LIIL
EMV	Сн	EG-Konf. For use in haza ous locations	ard- Test Certificates	UL	LIIL Marine / Shipping
	С Н	For use in haza	ard- Test Certificates Type Test Certific- ates/Test Report	UL Special Test Certific- ate	Marine / Shipping
EMV EMV RCM	сн	For use in haza	Type Test Certific-		LIIL Marine / Shipping
RCM	KC KC LUS	For use in haza	Type Test Certific- ates/Test Report		ABS
Marine / Shipping Marine / Shipping Discrete for the state of	kaging siemens.com/cs/ww/en/ hloadcenter (Catalogs, m/ic10 prdering system) nens.com/mall/en/en/Ca n.siemens.com/WW/CA uals, Certificates, Cha siemens.com/cs/ww/en/ juct images, 2D dimens iemens.com/bilddb/cax g characteristics, I²t, L siemens.com/cs/ww/en/	For use in haza ous locations	Type Test Certificates Type Test Certicates Type Test Certificates Type Test Certificates	Confirmation	ABS Environment Environmental Con-









last modified:

3/11/2024 🖸

Subject to change without notice © Copyright Siemens