SIEMENS

Data sheet



traction contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 125 V DC, 0.7-1.25* Us, electronic drive, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

product brand name	SIRIUS	
product designation	Power contactor	
design of the product	With extended operating range	
product type designation	3RT2	
General technical data		
size of contactor	SO	
product extension		
 function module for communication 	No	
auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	8.1 W	
 at AC in hot operating state per pole 	2.7 W	
 without load current share typical 	1.6 W	
insulation voltage		
 of main circuit with degree of pollution 3 rated value 	690 V	
 of auxiliary circuit with degree of pollution 3 rated value 	690 V	
surge voltage resistance		
 of main circuit rated value 	6 kV	
of auxiliary circuit rated value	6 kV	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at DC	10g / 5 ms, 7,5g / 10 ms	
shock resistance with sine pulse		
• at DC	15g / 5 ms, 10g / 10 ms	
mechanical service life (operating cycles)		
 of contactor typical 	10 000 000	
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000	
 of the contactor with added auxiliary switch block typical 	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-40 +70 °C	
during storage	-55 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		

number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	50 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-2 at 400 V rated value	32 A
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
minimum cross-section in main circuit	
at maximum AC-1 rated value	10 mm²
at maximum Ith rated value	10 mm²
operational current for approx. 200000 operating cycles at	
AC-4 • at 400 V rated value	12 A
at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	05.4
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	

	— at 24 V rated value	35 A	
O.B. A Operating power	— at 220 V rated value		
Operating power	— at 440 V rated value	0.6 A	
* at AC-2 at 400 V rated value	— at 600 V rated value	0.6 A	
- at 200 V rated value	operating power		
= at 230 V rated value	 at AC-2 at 400 V rated value 	15 kW	
at 400 V rated value at 500 V rated value at 400 V rated value at 500 V rated value at	• at AC-3		
	— at 230 V rated value	7.5 kW	
■ at AC-3e ■ at 230 V rated value ■ at 300 V rated value ■ at 890 V rated value ■ imited to 1 s switching at zero current maximum ■ limited to 1 s switching at zero current maximum ■ limited to 10 s switching at zero current maximum ■ limited to 30 s switching at zero current maximum ■ limited to 30 s switching at zero current maximum ■ limited to 30 s switching at zero current maximum ■ limited to 30 s switching at zero current maximum ■ limited to 80 s switching at zero current maximum ■ limited to 80 s switching at zero current maximum ■ limited to 80 s switching at zero current maximum 162 A; Use minimum cross-section acc, to AC-1 rated value 1500 1th □ at AC-1 maximum	— at 400 V rated value	15 kW	
at AC-3e at 200 V rated value at 400 V rated value at 500 V rated value at 500 V rated value 15 kW soperating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 500 V v rated value at 600 V rated value	— at 500 V rated value	15 kW	
	— at 690 V rated value	18.5 kW	
- at 400 V rated value - at 500 V rated value 15 kW 15	• at AC-3e		
- at 500 V rated value - at 980 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 860 V rated value at 860 V rated value initiated to 1 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 3 s switching at zero current maximum initiated to 80 s switching at 20 s out 1	— at 230 V rated value	7.5 kW	
- at 500 V rated value - at 590 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value - at 590 V rated value - at 1590 V rated valu			
operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value bort-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 30 s witching at zero current maximum limited to 30 s witching at zero current maximum limited to 30 s witching at zero current maximum limited to 60 s witching at zero current maximum limited to 60 s witching at zero current maximum simited to 60 s witching at zero current maximum simited to 60 s witching at zero current maximum roo-load witching frequency at DC operating frequency at AC-2 maximum stat AC-3 maximum stat AC-4 maximum stat AC-4 maximum stat AC-4 maximum stat AC-4 maximum stat AC-3 maximum stat AC-4 maximum stat AC-4 maximum stat AC-3 maximum stat AC-4 maximum stat AC-4 maximum stat AC-4 maximum stat AC-3 maximum stat AC-4 maximum stat AC-3 maximum stat AC-4 maximum stat AC-2 maximum stat AC-2 maximum stat AC-2 maximum stat AC-2 maximum stat AC-3			
operating power for approx. 200000 operating cycles at AC- 4			
at 400 V rated value at 400 V rated value 10.3 kW short-time withstand current in cold operating state up to 40°C ilmited to 1 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 30°s switching at zero current maximum ilmited to 30°s switching at zero current maximum ilmited to 60°s switching at zero current maximum ilmited to 60°s switching at zero current maximum ilmited to 60°s switching at zero current maximum solicited to 60°s switching at zero current maximum noload switching frequency at DC 1500 1/h 1500 1/h 1500 1/h 1500 1/h 140C-3 maximum 1750 1/h 141C-3 maximum 1500 1/h		10.0 KW	
* at 690 V rated value short-time withstand current in cold operating state up to 40 °C imited to 1 s witching at zero current maximum imited to 5 s witching at zero current maximum imited to 10 s switching at zero current maximum imited to 10 s switching at zero current maximum imited to 30 s witching at zero current maximum imited to 60 s witching at zero current maximum imited to 60 s witching at zero current maximum imited to 60 s witching at zero current maximum imited to 60 s witching frequency at DC 1 500 1/h operating frequency at AC-1 maximum 750 1/h at AC-2 maximum 750 1/h at AC-3e Talway applications thermal current (tith) up to 890 V up to 40 °C according to IEC 60077 rated value 50 A up to 70 °C according to IEC 60077 rated value 750 1/h imited to 60 sewitching at zero current maximum 1250 1/h 250 1/h Ratings for ratilway applications thermal current (tith) up to 890 V up to 40 °C according to IEC 60077 rated value 50 A up to 70 °C according to IEC 60077 rated value 750 1/h 125 V operating range factor control supply voltage control supply voltage at DC initial value 41.25 initial value 125 V operating range factor control supply voltage rated value of magnet coil at DC initial value 125 V operating range factor control supply voltage rated value of magnet coil at DC initial value 125 V operating range factor control supply voltage rated value of magnet coil at DC initial value 125 V operating range factor control supply voltage rated value of magnet coil at DC initial value 125 V operating range factor control supply voltage rated value of magnet coil at DC initial value 125 V operating range factor control supply voltage rated value of magnet coil at DC initial value 125 V operating range factor control supply voltage rated value of magnet coil at DC initial value 125 V operating range factor control sup			
short-time withstand current in cold operating state up to 40 °C Ilmited to 1 s switching at zero current maximum Ilmited to 5 s switching at zero current maximum Ilmited to 30 s switching at zero current to 40 s to 40 s search and a sea	• at 400 V rated value	6 kW	
short-time withstand current in cold operating state up to 40 °C Ilmited to 1 s switching at zero current maximum Ilmited to 5 s switching at zero current maximum Ilmited to 30 s switching at zero current to 40 s to 40 s search and a sea	• at 690 V rated value	10.3 kW	
Ilimited to 5 s switching at zero current maximum 341 A; Use minimum cross-section acc. to AC-1 rated value 1 limited to 10 s switching at zero current maximum 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 100 A; Use minimu			
Ilimited to 5 s switching at zero current maximum 341 A; Use minimum cross-section acc. to AC-1 rated value 1 limited to 10 s switching at zero current maximum 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 100 A; Use minimu	 limited to 1 s switching at zero current maximum 	499 A; Use minimum cross-section acc. to AC-1 rated value	
Illimited to 10 s switching at zero current maximum 198 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 190 A; Use minimum cross-section acc. to AC-1 rated value 190 A; Use minimum cross-section acc. to AC-1 rated value 190 A; Use minimum cross-section acc. to AC-1 rated value 190 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; Use minimum cross-section acc. to AC-1 rated value 150 A; U	-		
Ilimited to 30 s switching at zero current maximum 199 A; Use minimum cross-section acc. to AC-1 rated value	-		
Illimited to 60 s switching at zero current maximum 162 A; Use minimum cross-section acc. to AC-1 rated value	-		
no-load switching frequency	-		
■ at DC operating frequency ■ at AC-1 maximum 750 1/h ■ at AC-3 e maximum 750 1/h ■ at AC-2 at AC-3 e maximum 750 1/h ■ at AC-2 at AC-3 e maximum 750 1/h ■ at AC-4 maximum 250 1/h Ratings for railway applications thermal current (ith) up to 690 V ■ up to 70 °C according to IEC 60077 rated value 50 A ■ up to 70 °C according to IEC 60077 rated value 36 A Control circuit/ Control type of voltage to IC 60077 rated value DC □ rated value DC ■ rated value 125 V operating range factor control supply voltage rated value of magnet coil at DC ■ initial value 1.25 design of the surge suppressor with varistor duration of locked-rotor current 180 ms closing power of magnet coil at DC 13.2 W holding power of magnet coil at DC 13.2 W holding power of magnet coil at DC 13.2 W closing delay ■ at DC	<u> </u>	1027, 000 111111111111111111111111111111111	
operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 e maximum • at AC-3 e maximum • at AC-3 e maximum • at AC-2 at AC-3 e maximum • at AC-2 at AC-3 e maximum • at AC-2 at AC-3 e maximum • at AC-4 maximum • at AC-3 e maximum • at AC-4 e maximum • at AC-4 e maximum • at AC-3 e maximum • at AC-4 e maximum • at AC-3 e maximum • at AC-3 e maximum • at AC-4 e maximum • at AC-3 e maximum • at AC-3 e maximum • at AC-4 e maximum • at AC-3 e ma		1.500.1/h	
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at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 at AC-3 e maximum at AC-3 at AC-3 e maximum at AC-4 maximum at AC-2 at AC-3 e maximum at AC-4 maximum at AC-4 maximum at AC-2 at AC-3 e maximum at AC-4 maximum at AC-2 at AC-3 e maximum at AC-4 maxim		750 1/h	
at AC-3 maximum at AC-3 e maximum at AC-2 at AC-3 e maximum at AC-2 at AC-3 e maximum at AC-2 at AC-3 e maximum at AC-3			
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at AC-2 at AC-3e maximum at AC-4 maximum at AC-50 1/h Ratings for railway applications thermal current (Ith) up to 690 V a up to 40 °C according to IEC 60077 rated value applications but type of voltage to IEC 60077 rated value but type of voltage but type of voltage to IEC 60077 rated value but type of voltage to IEC 60077 rated value but type of voltage to IEC 60077 rated value but type of voltage to IEC 60077 rated value but type of voltage to IEC 60077 rated value but type of voltage at DC are rated value but type of voltage at DC are rated value but type of voltage at DC are rated value but type of voltage at DC are rated value but type of voltage at DC but type of			
at AC-4 maximum Ratings for railway applications thermal current (Ith) up to 690 V a up to 40 °C according to IEC 60077 rated value b up to 70 °C according to IEC 60077 rated value control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value of tull-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC sat DC so 75 ms opening delay at DC so 50 ms arcing time 10 10 ms			
Ratings for railway applications thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value 8			
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value 50 A • up to 70 °C according to IEC 60077 rated value 36 A Control circuit/ Control type of voltage DC type of voltage DC control supply voltage at DC • rated value 125 V operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.7 • full-scale value 1.25 design of the surge suppressor with varistor duration of locked-rotor current 180 ms closing power of magnet coil at DC 1.3 W closing delay • at DC 50 75 ms opening delay • at DC 30 50 ms arcing time 30 50 ms arcing time 30 50 ms		250 1/1	
up to 40 °C according to IEC 60077 rated value up to 70 °C according to IEC 60077 rated value 26 A Control circuit/ Control type of voltage DC type of voltage of the control supply voltage control supply voltage at DC rated value 125 V operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC opening delay at DC opening delay at DC 30 50 ms arcing time 10 10 ms			
• up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC other in the surge suppressor supply voltage rated value 1.25 design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC 1.3 W closing delay other in the surge suppressor supply voltage 1.25 1.3 W closing delay other in the surge suppressor supply voltage 1.25 1.3 W closing delay other in the surge suppressor supply voltage 1.25 1.3 W closing delay other in the surge suppressor supply voltage 1.25 1.3 W closing delay other in the surge suppressor supply voltage 1.25 1.3 W closing delay other in the surge suppressor supply voltage 1.25 supply volta			
type of voltage DC type of voltage of the control supply voltage DC control supply voltage at DC • rated value 125 V operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.7 • full-scale value 1.25 design of the surge suppressor with varistor duration of locked-rotor current 180 ms closing power of magnet coil at DC 13.2 W holding power of magnet coil at DC 1.3 W closing delay • at DC 50 75 ms opening delay • at DC 30 50 ms arcing time 10 10 ms			
type of voltage		36 A	
type of voltage of the control supply voltage control supply voltage at DC • rated value 125 V operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time DC 125 V 0.7 with varistor with varistor 180 ms 13.2 W 13.2 W 13.2 W 50 75 ms 0 ms 10 75 ms	Control circuit/ Control		
control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value of tull-scale value design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time 125 V 1.25 V 0.7 with varistor with varistor 180 ms 13.2 W 13.2 W 13.2 W 50 75 ms 13.3 W 13.4 W 13.5 M 13.5 M 13.6 M 13.7 M 13.7 M 13.8 M 14.8 M 15.8 M 15.8 M 16.8 M 16.8 M 17.8 M 18.8 M 18.8 M 19.8 M 10.8	type of voltage	DC	
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design of the surge suppressor duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC 1.3 W closing delay • at DC opening delay • at DC 30 50 ms arcing time with varistor 180 ms 1.3.2 W 1.3.2 W 50 75 ms 0 ms	• initial value	0.7	
duration of locked-rotor current closing power of magnet coil at DC holding power of magnet coil at DC 1.3 W closing delay • at DC opening delay • at DC 30 50 ms arcing time 180 ms 13.2 W 13.2 W 50 75 ms 00 75 ms	• full-scale value	1.25	
closing power of magnet coil at DC holding power of magnet coil at DC 1.3 W closing delay • at DC 50 75 ms opening delay • at DC 30 50 ms arcing time 10 10 ms	design of the surge suppressor		
holding power of magnet coil at DC closing delay • at DC opening delay • at DC 30 50 ms arcing time 1.3 W 1.3 W 50 75 ms	duration of locked-rotor current	180 ms	
holding power of magnet coil at DC closing delay • at DC opening delay • at DC 30 50 ms arcing time 1.3 W 1.3 W 50 75 ms	closing power of magnet coil at DC	13.2 W	
closing delay • at DC 50 75 ms opening delay • at DC 30 50 ms arcing time 10 10 ms	holding power of magnet coil at DC	1.3 W	
● at DC 50 75 ms opening delay ● at DC 30 50 ms arcing time 10 10 ms			
opening delay ◆ at DC 30 50 ms arcing time 10 10 ms		50 75 ms	
● at DC 30 50 ms arcing time 10 10 ms			
arcing time 10 10 ms		30 50 ms	
Auxiliary circuit			

number of NC contacts for auxiliary contacts	1	
instantaneous contact	1	
number of NO contacts for auxiliary contacts	1	
instantaneous contact	1	
operational current at AC-12 maximum	10 A	
operational current at AC-15		
• at 230 V rated value	10 A	
• at 400 V rated value	3 A	
• at 500 V rated value	2 A	
at 690 V rated value	1 A	
operational current at DC-12		
• at 24 V rated value	10 A	
• at 48 V rated value	6 A	
• at 60 V rated value	6 A	
• at 110 V rated value	3 A	
• at 125 V rated value	2 A	
at 220 V rated value	1 A	
• at 600 V rated value	0.15 A	
operational current at DC-13		
at 24 V rated value	10 A	
at 48 V rated value	2 A	
at 60 V rated value	2 A	
at 110 V rated value	1 A	
at 125 V rated value	0.9 A	
at 220 V rated value	0.3 A	
at 600 V rated value	0.1 A	
UL/CSA ratings	ULIA	
full-load current (FLA) for 3-phase AC motor	07.4	
at 480 V rated value at 600 V rated value	27 A	
• at 600 V rated value	27 A	
yielded mechanical performance [hp]		
• for single-phase AC motor		
— at 110/120 V rated value	2 hp	
— at 230 V rated value	5 hp	
• for 3-phase AC motor	10 hp	
at 200/208 V rated value		
at 200/208 V rated valueat 220/230 V rated value	10 hp	
 at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	10 hp 20 hp	
 at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 	10 hp 20 hp 25 hp	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL	10 hp 20 hp	
 at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 	10 hp 20 hp 25 hp	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL	10 hp 20 hp 25 hp	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	10 hp 20 hp 25 hp A600 / Q600	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection	10 hp 20 hp 25 hp A600 / Q600	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link	10 hp 20 hp 25 hp A600 / Q600	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit	10 hp 20 hp 25 hp A600 / Q600	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	10 hp 20 hp 25 hp A600 / Q600 No gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function 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	10 hp 20 hp 25 hp A600 / Q600 No gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)	
— at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 • for short-circuit protection of the auxiliary switch required	10 hp 20 hp 25 hp A600 / Q600 No gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)	
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- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	10 hp 20 hp 25 hp A600 / Q600 No gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes	
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 for grounded parts 		
— forwards	10 mm	
— upwards	10 mm	
— at the side	6 mm	
— downwards	10 mm	
• for live parts		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	spring-loaded terminals	
for auxiliary and control circuit	spring-loaded terminals	
at contactor for auxiliary contacts	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections for main contacts		
• solid	2x (1 10 mm²)	
solid or stranded	2x (1 10 mm²)	
 finely stranded with core end processing 	2x (1 6 mm²)	
 finely stranded without core end processing 	2x (1 6 mm²)	
type of connectable conductor cross-sections		
for auxiliary contacts		
— solid or stranded	2x (0.5 2.5 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
 for AWG cables for auxiliary contacts 	2x (20 14)	
AWG number as coded connectable conductor cross section		
• for main contacts	18 8	
for auxiliary contacts	20 14	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
 positively driven operation according to IEC 60947-5-1 	No	
B10 value with high demand rate according to SN 31920	450 000	
proportion of dangerous failures		
 with low demand rate according to SN 31920 	40 %	
 with high demand rate according to SN 31920 	73 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
T1 value for proof test interval or service life according to IEC 61508	20 a	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Communication/ Protocol		
product function bus communication	No	
Certificates/ approvals		

General Product Approval





Confirmation



<u>KC</u>



EMC Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good



Confirmation



Special Test Certificate Vibration and Shock

Transport Information

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2027-2XG40-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-2XG40-0LA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2XG40-0LA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

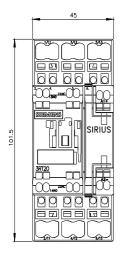
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-2XG40-0LA2&lang=en

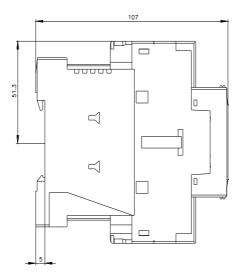
Characteristic: Tripping characteristics, I²t, Let-through current

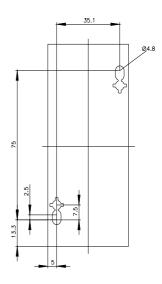
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2XG40-0LA2/char

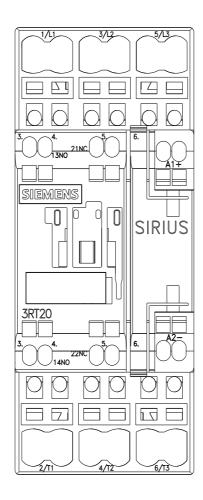
Further characteristics (e.g. electrical endurance, switching frequency)

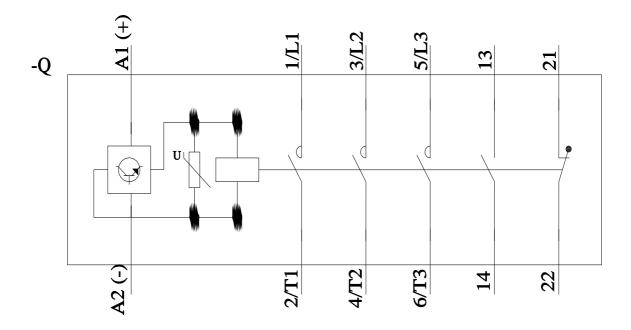
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2XG40-0LA2&objecttype=14&gridview=view1











last modified: 11/21/2022 🖸