SIEMENS

Data sheet 3RT2025-2BP40



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 230 V DC, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0 $\,$

product designation Power contactor SRT2 SRT2	product brand name	SIRIUS
product type designation 3RT2 Since It chinical clais Size of contactor Size of contactor • function module for communication • function that operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at DC shock resistance at rectangular impulse • at DC shock resistance with sine pulse • of the contactor with added electronically optimized • of the contactor with added electronically optimized • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the conta		
Size of contactor product extension • function module for communication • auxiliary switch • auxiliary switch • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of auxiliary switch • of ordina circuit rated value • of auxiliary switch • of ordina circuit rated value • of auxiliary switch such pulse • of auxiliary switch sine pulse • at DC • at DC mechanical service life (operating cycles) • of contactor typical • of the contactor with added auxiliary switch block typical • of the contactor with	. •	3RT2
product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of outlands caccording to EN 60947-1 shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC shock resistance with sine pulse • at DC of contactor life (operating cycles) • of orthactor life (operating cycles) • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with	General technical data	
• function module for communication • auxiliary switch • auxiliary switch • auxiliary switch • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at DC •	size of contactor	SO
• auxillary switch • auxillary switch • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of auxillary circuit rated value • at DC 10g / 5 ms, 7,5g / 10 ms **Shock resistance at rectangular impulse • at DC 10g / 5 ms, 7,5g / 10 ms **Shock resistance at rectangular impulse • at DC 15g / 5 ms, 10g / 10 ms **mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switc	product extension	
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at AC in hot operating state per pole at AC in hot operating state per pole of without load current share typical of main circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit rated value of auxillary settle value of auxillary circuit rated value of auxillary circuit rated value of auxillary circuit rated value of auxill	auxiliary switch	Yes
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of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse oat DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse of contactor with sine pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch bl	 without load current share typical 	5.9 W
of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of to auxiliary circuit rated value of to value auxiliary circuit rated value of au	insulation voltage	
surge voltage resistance of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse of the contactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with	 of main circuit with degree of pollution 3 rated value 	690 V
of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of tDC 10g / 5 ms, 7.5g / 10 ms shock resistance with sine pulse of tDC 15g / 5 ms, 10g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor w	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse o at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse o at DC 15g / 5 ms, 10g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 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 • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with a	of main circuit rated value	6 kV
shock resistance at rectangular impulse	 of auxiliary circuit rated value 	6 kV
* at DC * shock resistance with sine pulse * at DC * 15g / 5 ms, 10g / 10 ms mechanical service life (operating cycles) * of contactor typical * of the contactor with added electronically optimized auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added au		400 V
shock resistance with sine pulse	shock resistance at rectangular impulse	
• at DC mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added electronically optimized 5 000 000 • 10 000 000	• at DC	10g / 5 ms, 7,5g / 10 ms
mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	shock resistance with sine pulse	
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of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit 5 000 000 10 000 10 000 Q 2 000 0 000 10 000 10 000 0 000 0 000 10 000 0 00	mechanical service life (operating cycles)	
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reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit		5 000 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	 of the contactor with added auxiliary switch block typical 	10 000 000
Installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit 2 000 m -25 +60 °C -55 +80 °C 10 % 95 %	reference code according to IEC 81346-2	Q
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during operation during storage during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	installation altitude at height above sea level maximum	2 000 m
● during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Main circuit	during storage	-55 +80 °C
maximum Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	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 	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	25.4
 up to 690 V at ambient temperature 60 °C rated value 	35 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
at AC-4 at 400 V rated value	15.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5a up to 690 V rated value • at AC-5b up to 400 V rated value	14.1 A
•	14.1 A
• at AC-6a	44.4.0
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	11.4 A
— up to 690 V for current peak value n=20 rated value	11.3 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	7.6 A
 up to 400 V for current peak value n=30 rated value 	7.6 A
 up to 500 V for current peak value n=30 rated value 	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	7.7 A
at 690 V rated value	7.7 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 440 V rated value — at 600 V rated value	0.25 A
	0.25 A
with 2 current paths in series at DC-1 at 24 V roted value.	25 A
— at 24 V rated value	35 A
— at 60 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 60 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 60 V rated value	5 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 60 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
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
at AC-2 at 400 V rated value	7.5 kW
at AC-2 at 400 V fated value at AC-3	1.0 KVV
■ at AC-3 — at 230 V rated value	4 kW
	4 KVV 7.5 kW
— at 400 V rated value	
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	A LAM
— at 230 V rated value	4 kW
— at 400 V rated value	4.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value at 400 V rated value	3.5 kW
at 690 V rated value	6 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	4.5 kVA
up to 400 V for current peak value n=20 rated value	7.8 kVA
 up to 400 V for current peak value n=20 rated value 	9.9 kVA
up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value	13.6 kVA
operating apparent power at AC-6a	IV.V RVA
up to 230 V for current peak value n=30 rated value	3 kVA
up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value	5.2 kVA
 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	6.6 kVA
up to 690 V for current peak value n=30 rated value Short time withstand current in cold expending state up to	9.1 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	225 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	225 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 10 s switching at zero current maximum	189 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 30 s switching at zero current maximum	140 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	115 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	
at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
- ut/to - maximall	000 mi

type of voltage of the control supply voltage at DC control supply voltage at DC carted value coparating range factor control supply voltage rated value of magnet coil at DC cinitial value initial value initial value	
control supply voltage at DC	
• rated value 230 V operating range factor control supply voltage rated value of magnet coil at DC • initial value 5.9 W • full-scale value 1.1 closing power of magnet coil at DC 5.9 W closing power of magnet coil at DC 5.9 W closing delay • at DC 50 170 ms opening delay • at DC 15 18 ms arcing time 10 10 ms control version of the switch operating mechanism 21 10 ms control version of the switch operating mechanism 21 10 ms control version of the switch operating mechanism 31 10 ms control version of the switch operating mechanism 32 10 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operating mechanism 34 10 ms control version of the switch operatin	
magnet coil at DC	
• initial value • full-scale value 1.1 closing power of magnet coil at DC 15.9 W holding power of magnet coil at DC 15.9 W • at DC 50 170 ms opening delay • at DC 15 18 ms arcing time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit rumber of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-12 maximum 20 A operational current at AC-14 walue • at 400 V rated value • at 4500 V rated value • at 480 V rated value • at 150 V rated value • at 160 V rated value • at 170 V rated value • at 180 V rated value	
e full-scale value closing power of magnet coil at DC bolding power of magnet coil at DC closing delay e at DC opening delay • at DC arcing time 10 10 ms control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous operational current at AC-12 maximum operational current at AC-12 maximum 10 A operational current at AC-15 e at 230 V rated value at 400 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 220 V rated value at 125 V rated value at 127 V rated value at 128 V rated value at 129 V rated value at 120 V rated	
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	
holding power of magnet coil at DC	
Closing delay	
• at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at DC-12 • at 230 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 300 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 120 V rated value • at 300 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 300 V rated value • at 48 V rated value • at 48 V rated value • at 220 V rated value • at 220 V rated value • at 300 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 500 V rated value • at 600 V rat	
opening delay	
■ art DC arcing time	
arcing time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 Auxillary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact 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 2 A • at 500 V rated value 10 A operational current at DC-12 • at 24 V rated value 10 A • at 48 V rated value 6 A • at 110 V rated value 6 A • at 110 V rated value 12 A • at 125 V rated value 13 A • at 220 V rated value 14 A • at 220 V rated value 15 A • at 220 V rated value 10 A • at 48 V rated value 2 A • at 124 V rated value 2 A • at 125 V rated value 2 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 10 A • at 320 V rated value 10 A • at 48 V rated value 10 A • at 220 V rated value 10 A • at 220 V rated value 10 A • at 220 V rated value 10 A • at 320 V rated value 10 A • at 48 V rated value 10 A • at 220 V rated value 10 A • at 320 V rated value 10 A • at 48 V rated value 10 A • at 320 V rated value 10 A • at 48 V rated value 10 A • at 320 V rated value 11 A • at 220 V rated value 11 A • at 220 V rated value 11 A • at 220 V rated value 11 A • at 110 V rated value 11 A • at 220 V rated value 11 A • at 110 V rated value 11 A • at 220 V rated value 11 A • at 220 V rated value 11 A • at 320 V rated value 11 A • at 320 V rated value 11 A • at 320 V rated value 11 A • at 48 V rated value 11 A • at 48 V rated value 11 A • at 48 V rated value 11 A • at 30 V	
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Auxillary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 110 V rated value • at 110 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value • at 100 V rated value • at 100 V rated value • at 110 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 110 V rated value • at 125 V rated value • at 110 V rated value • at 120 V rated value • at 110 V rated value • at 20 V rated value	
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contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 60 V rated value • at 10 V rated value • at 22 V rated value • at 25 V rated value • at 26 V rated value • at 20 V rated value • at 80 V rated value • at 60 V rated value • at 110 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 110 V rated value • at 120 V rated value • at 110 V rated value • at 120 V rated value • at 10 V rated value • at 110 V rated value • at 120 V rated value	
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operational current at AC-15	
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 1 A operational current at DC-12 at 24 V rated value at 60 V rated value at 10 A at 48 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 3 V rated value at 24 V rated value at 25 V rated value at 20 V rated value at 60 V rated value at 10 V rated value at 10 V rated value at 10 V rated value at 125 V rated value at 120 V rated value at 120 V rated value at 600 V rated value at 70 M million (17 V, 1 mA) ULICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 	
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operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 480 V rated value 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	
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• at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 14 A	
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 14 A	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 14 A	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 14 A	
• at 480 V rated value 14 A	
at 600 V rated value 17 A	
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value 1 hp	
— at 230 V rated value 3 hp	
• for 3-phase AC motor	
— at 200/208 V rated value 3 hp	
— at 220/230 V rated value 5 hp	
— at 460/480 V rated value 10 hp	
— at 575/600 V rated value 15 hp	
contact rating of auxiliary contacts according to UL A600 / P600	
Short-circuit protection	
design of the fuse link	
• for short-circuit protection of the main circuit	

 — with type of coordination 1 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	102 mm
width	45 mm
depth	107 mm
required spacing	
with side-by-side mounting	40
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	10
— forwards	10 mm
— upwards	10 mm
— at the side — downwards	6 mm 10 mm
for live parts	10 111111
for live parts	10 mm
— norwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	O IIIIII
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	Opining type terminals
• 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)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
stranded	1 10 mm²
finely stranded with core end processing	1 6 mm²
finely stranded without core end processing	1 6 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
• finely stranded with core end processing	0.5 1.5 mm²
finely stranded without core end processing	0.5 2.5 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	40.0
• for main contacts	18 8
for auxiliary contacts	20 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
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
suitability for use	
 safety-related switching on 	Yes
safety-related switching OFF	Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity
Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation



Vibration and Shock

Transport Information

Environmental Confirmations

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=3RT2025-2BP40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-2BP40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2BP40

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

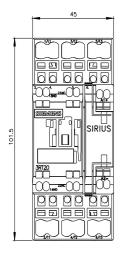
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2BP40&lang=en

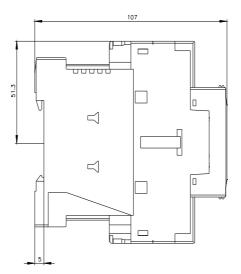
Characteristic: Tripping characteristics, I2t, Let-through current

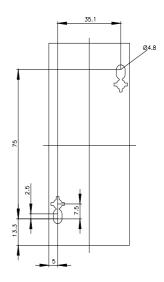
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2BP40/char

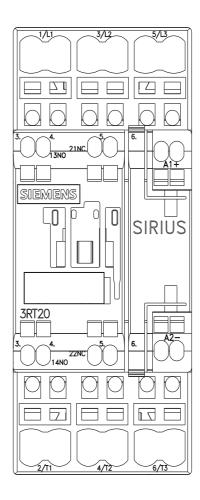
Further characteristics (e.g. electrical endurance, switching frequency)

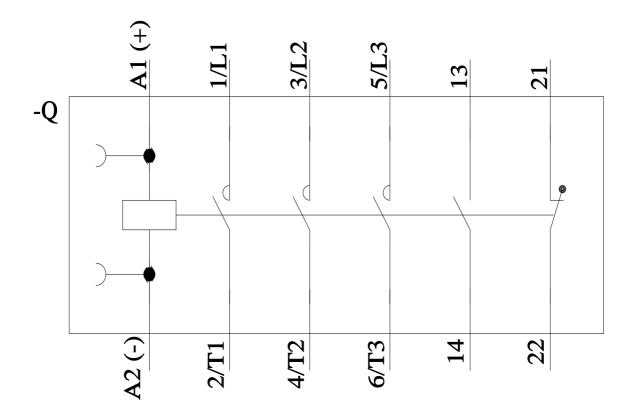
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2025-2BP40\&objecttype=14\&gridview=view1}$











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