SIEMENS

Data sheet

3RT2045-1AC20



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

product brand name SIRUS product brand designation 90wer contactor product type designation SRT2 contractor S3 size of contactor S3 product extension No • function module for communication No • auxiliary switch Yes power loss [V] for rated value of the current 5.3 W • at AC in hot operaing state per pole 5.3 W • at AC in hot operaing state per pole 5.3 W • without load current share typical 25 W insultation voltage 1000 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 10.3g / 5 ms, 6.g / 10 ms shock resistance at rectangular impulse 10.3g / 5 ms, 10 g / 10 ms	6/1	
product type designation 3RT2 General technical data	product brand name	SIRIUS
General technical data S3 size of contactor S3 product extension No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state prole 5.3 W • without load current share typical 1000 V • of main circuit with degree of pollution 3 rated value 000 V • of main circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit rated value 600 V • stack cestance at rectangular impulse 10.3g / 5 ms, 6, g / 10 ms • at AC 16.3g / 5 ms, 10. g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added actennically optimized auxiliary switch block typical 10 000 000 • of the contactor with added actennically optimized auxiliary switch block typical 10 000 000 • of the contactor with added actennically optimized auxiliary switch block typical 10 000 000 • of the contactor with added actennically optimized auxiliary switch block typical 10 000 000 • of the contactor with added actennically optimiz	product designation	Power contactor
size of contactor §3 product extension • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current • at AC in hot operating state per pole 5.3 W • at AC in hot operating state per pole 5.3 W • of main circult with degree of pollution 3 rated value 1000 V • of main circult with degree of pollution 3 rated value 690 V surger voltage resistance 8 kV • of main circult with degree of pollution 3 rated value 690 V surger voltage resistance 6 kV • of main circult with degree of pollution 3 rated value 690 V surger voltage resistance 6 kV • of main circult with degree of pollution 3 rated value 690 V surger voltage resistance 6 kV • of main circult with degree of pollution 4 rated value 6 kV maximum permissible voltage for protective separation between collards main contacts according to EN 60947-1 600 V shock resistance with sine pulse 10.3g / 5 ms, 6.g / 10 ms e at AC 16.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) 0 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10000 000 reference code according to EEC 81346-2 Q Su	product type designation	3RT2
product extension incidion module for communication No • auxiliary switch Yes • auxiliary switch Yes • at AC in hot operating state 15.9 W • at AC in hot operating state per pole 5.3 W • without load current share typical 25 W • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 600 V • of main circuit rated value 8 kV • of main circuit rated value 64 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of main contacts according to EN 00947-1 54 V • shock resistance at rectangular impulse 64 V • at AC 10.3g / 5 ms, 6, g / 10 ms • at AC 10.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0 00 000 • of the contactor with added auxiliary switch block typical 0 00 000 • of the contactor with added auxiliary switch block typical 0 00 000 • of the contactor with added auxiliary switch block	General technical data	
• function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 5.9 W • at AC in hot operating state 15.9 W • at AC in hot operating state per pole 5.3 W • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 600 V • of main circuit with degree of pollution 3 rated value 800 V • of main circuit and value 8 kV • of main circuit rated value 6 kV • of main circuit rated value 8 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 10.3g / 5 ms, 6, g / 10 ms • shock resistance at rectangular impulse 10 000 000 • at AC 16.3g / 5 ms, 10.g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically	size of contactor	S3
• auxiliary switch Yes power loss [W] for rated value of the current 5.9 W • at AC in hot operating state per pole 5.3 W • at AC in hot operating state per pole 5.3 W • without load current share typical 25 W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 68 V • of main circuit rated value 6 kV • of auxiliary circuit with degree of pollution 3 rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • at AC 10.3g / 5 ms, 6, g / 10 ms shock resistance with sine pulse 10.000 000 • at AC 10.3g / 5 ms, 10, g / 10 ms mechanical service life (operating cycles) 10 000 000 • of ontactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electro	product extension	
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• at AC in hot operating state 15.9 W • at AC in hot operating state price 5.3 W • without load current share typical 25 W insultation voltage 600 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 68V • of auxiliary circuit rated value 6 kV • of auxiliary strict block typical 600 V • at AC 10.3g / 5 ms, 6, g / 10 ms shock resistance with sine pulse 6 auxiliary strict block typical • at AC 10 000 000 • of the contactor typical 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added electronically optimized 0301/2017 Ambient conditions 2 000 m installation	auxiliary switch	Yes
• at AC in hot operating state per pole 5.3 W • without bad current share typical 25 W insulation voltage 1000 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum perniselse voltage for protective separation between coil and main contacts according to EN 60947-1 690 V • at AC 10.3g / 5 ms, 6, g / 10 ms • at AC 10.3g / 5 ms, 10.g / 10 ms • at AC 16.3g / 5 ms, 10.g / 10 ms • at AC 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0	power loss [W] for rated value of the current	
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• of main circuit with degree of pollution 3 rated value 1 000 V • of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 8 kV • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 6 • at AC 10.3g / 5 ms, 6, g / 10 ms shock resistance with sine pulse 1 • at AC 16.3g / 5 ms, 10.g / 10 ms shock resistance with sine pulse 1 • at AC 10.000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 03/01/2017 Ambient conditions -25 +60 °C • during operation -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • elative humidity at 55 °C according to IEC 60068-2.30 95 % </th <th> without load current share typical </th> <th>25 W</th>	 without load current share typical 	25 W
• of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 8 kV • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 690 V • at AC 10.3g / 5 ms, 6, g / 10 ms shock resistance with sine pulse 10.3g / 5 ms, 10.g / 10 ms • at AC 16.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 0301/2017 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • during storage 5 %	insulation voltage	
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• of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 6 • at AC 10.3g / 5 ms, 6, g / 10 ms shock resistance with sine pulse 16.3g / 5 ms, 10.g / 10 ms • at AC 16.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor typical 5 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0 000 • of the contactor with added auxiliary switch block typical 0 000 • of the contactor with added auxiliary switch block typical 0 000 • of the contactor with added auxiliary switch block typical 0 000 • of the contactor with added auxiliary switch block typical 0 000 • of the contactor with added auxiliary switch block typical 0 000 000 reference code according to IEC 81346-2 Q gaitoria altrude at height above sea level maximum 2 000 m ambient temperature - • dur	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
• of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 600 V • at AC 10.3g / 5 ms, 6g / 10 ms shock resistance with sine pulse - • at AC 16.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) - • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 03/01/2017 Amblent conditions 2 000 m ambient temperature -25 +60 °C • during storage -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 95 %	surge voltage resistance	
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• at AC10.3g / 5 ms, 6.g / 10 msshock resistance with sine pulse		690 V
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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 Q Substance Prohibitance (Date) 03/01/2017 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -25 +60 °C -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum maximum 	mechanical service life (operating cycles)	
auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 03/01/2017 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % Main circuit 95 %	 of contactor typical 	10 000 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 03/01/2017 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % Main circuit 95 %		5 000 000
Substance Prohibitance (Date) 03/01/2017 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % Main circuit 95 %	 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °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	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -25 +60 °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 4	Substance Prohibitance (Date)	03/01/2017
ambient temperature -25 +60 °C • during operation -25 +60 °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	Ambient conditions	
• during operation -25 +60 °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	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	during storage	-55 +80 °C
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	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	125 A
value	
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	125 A
— up to 690 V at ambient temperature 60 °C rated	105 A
value	
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
 at AC-4 at 400 V rated value 	66 A
• at AC-5a up to 690 V rated value	110 A
• at AC-5b up to 400 V rated value	80 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	80 A
 — up to 400 V for current peak value n=20 rated value 	80 A
 — up to 500 V for current peak value n=20 rated value 	80 A
 — up to 690 V for current peak value n=20 rated value 	58 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	54 A
 — up to 400 V for current peak value n=30 rated value 	54 A
 — up to 500 V for current peak value n=30 rated value 	54 A
 — up to 690 V for current peak value n=30 rated value 	54 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	34 A
at 690 V rated value	24 A
operational current	27 A
at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
- at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	100 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1.8 4
with 3 current paths in series at DC-1	
- at 24 V rated value	100 A
	100 A
- at 60 V rated value	
- at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A

— at 600 V rated value	2.6 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 60 V rated value	6 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 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	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 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	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
4	47.0111/
• at 400 V rated value	17.9 kW
• at 690 V rated value	21.8 kW
operating apparent power at AC-6a	0411/4
• up to 230 V for current peak value n=20 rated value	31 kVA
• up to 400 V for current peak value n=20 rated value	55 kVA
• up to 500 V for current peak value n=20 rated value	69 kVA
• up to 690 V for current peak value n=20 rated value	69 kVA
operating apparent power at AC-6a	24 5 12/4
up to 230 V for current peak value n=30 rated value	21.5 kVA
up to 400 V for current peak value n=30 rated value	37.4 KVA
• up to 500 V for current peak value n=30 rated value	46.7 kVA
up to 690 V for current peak value n=30 rated value	64.5 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 500 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 186 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	851 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	538 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	423 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	900 1/h

• at AC-2 maximum	400 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
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	348 VA
• at 60 Hz	296 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.62
• at 60 Hz	0.55
apparent holding power of magnet coil at AC	
• at 50 Hz	25 VA
• at 60 Hz	18 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.35
• at 60 Hz	0.41
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact	1
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
Auxiliary 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	
Auxiliary 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 operational current at AC-15	1 10 A
Auxiliary 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 operational current at AC-15 • at 230 V rated value	1 10 A 6 A
Auxiliary 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 operational current at AC-15 • at 230 V rated value • at 400 V rated value	1 10 A 6 A 3 A
Auxiliary 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 operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	1 10 A 6 A 3 A 2 A
Auxiliary 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 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 10 A 6 A 3 A
Auxiliary 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 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	1 10 A 6 A 3 A 2 A 1 A
Auxiliary 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 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 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A
Auxiliary 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 operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A
Auxiliary 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 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 440 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 60 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A
Auxiliary 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 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 410 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
Auxiliary 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 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 48 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
Auxiliary 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 operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 220 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
Auxiliary 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 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 48 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value • at 250 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 200 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
Auxiliary 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 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 25 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 1 A 0.15 A
Auxiliary 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 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 24 V rated value • at 48 V rated value • at 40 V rated value • at 24 V rated value • at 250 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 220 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 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10
Auxiliary 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 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 48 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1
Auxiliary 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 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 48 V rated value • at 48 V rated value • at 40 V rated value • at 690 V rated value • at 690 V rated value • at 490 V rated value • at 490 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1
Auxiliary 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 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 400 V rated value • at 20 V rated value • at 21 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value <	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10
Auxiliary 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 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 400 V rated value • at 410 V rated value • at 42 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10
Auxiliary 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 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 600 V rated value • at 48 V rated value • at 60 V rated value • at 220 V rated value • at 110 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 10 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 1 A 1 0 1
Auxiliary 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 operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value <t< td=""><td>1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 0.9 A 0.3 A 0.1 A</td></t<>	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 0.9 A 0.3 A 0.1 A
Auxiliary 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 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 48 V rated value • at 24 V rated value • at 25 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value <t< td=""><td>1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 1 A 1 0 1</td></t<>	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 1 A 1 0 1
Auxiliary 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 operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value <t< td=""><td>1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0.15 A 1 A 0.9 A 0.3 A 0.1 A</td></t<>	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0.15 A 1 A 0.9 A 0.3 A 0.1 A

	77 A
at 480 V rated value	77 A
tat 600 V rated value	62 A
yielded mechanical performance [hp]	
 for single-phase AC motor — at 110/120 V rated value 	7.5 hp
— at 230 V rated value	15 hp
• for 3-phase AC motor	10 lib
- at 200/208 V rated value	25 hp
- at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	60 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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	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	140 mm
width depth	70 mm 152 mm
depth required spacing	132 11111
with side-by-side mounting	
- forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
 of magnet coil 	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)
connectable conductor cross-section for main contacts	
• solid	2.5 16 mm ²
• stranded	6 70 mm²
finely stranded with core end processing	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm ²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts colid or stranded	$2x (0.5 - 1.5 mm^2) 2x (0.75 - 2.5 mm^2)$
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)

— finely strar	nded with core end process	ing 2x (0.5 1.5 mm²), 2x (0.75 .	2.5 mm²)	
-	for auxiliary contacts	•	20 16), 2x (18 14)		
	ed connectable conducto		20 10), 2x (10 11)		
 for main contact 	S	10	2		
 for auxiliary con 	tacts	20	14		
Safety related data					
product function					
 mirror contact a 	ccording to IEC 60947-4-1	Yes			
	operation according to IEC	C 60947-5-1 No			
suitability for use safet	y-related switching OFF	Yes			
B10 value with high de	emand rate according to SN	31920 1 00	00 000		
proportion of danger	ous failures				
 with low demand 	d rate according to SN 319	20 40 %	6		
 with high demar 	nd rate according to SN 319	920 73 %	6		
	ow demand rate according		FIT		
	interval or service life acco		1		
protection class IP of	n the front according to I	EC 60529 IP20)		
touch protection on t	the front according to IEC	60529 finge	er-safe, for vertical contac	t from the front	
Certificates/ approvals					
CEA					CUL
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confo	ormity	Test Certificates	
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS		Hoyd's Register urs	PRS	RINA	KMRS
other	Railway	Dangerous Good	Environment		

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 EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).	supply these products to an
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)	

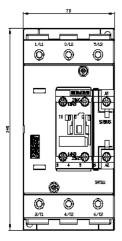
Indus https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2045-1AC20

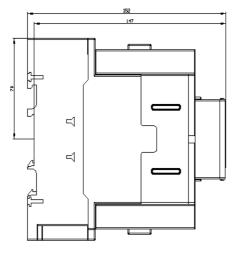
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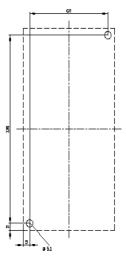
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1AC20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AC20 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2045-1AC20&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AC20/char

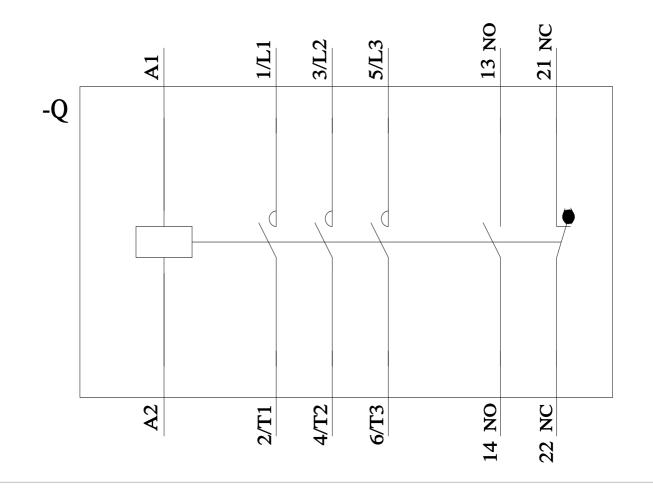
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1AC20&objecttype=14&gridview=view1









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