SIEMENS

Data sheet

3RT2045-1AU00



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 240 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3

product brand name SIRUS product brand designation 9x8r2 contactor product type designation 9x8r2 connector \$3 size of contactor \$3 product stension 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 operating state 5.3 W - of main circult with degree of pollution 3 rated value 600 V of main circult with degree of pollution 3 rated value 600 V - of auxiliary circult with degree of pollution 3 rated value 600 V - of auxiliary circult with degree of pollution 3 rated value 600 V - of auxiliary circult rated value 6kV - of auxiliary since bit evelopes 6kV - of auxiliary since bit evelopes 6kV - of auxiliary circult rated value 6kV - of auxiliary circult rated value 10.3g / 5 ms, 6.g / 10 m	473	
product type designation 3RT2 General technical data	product brand name	SIRIUS
General tochnical data S3 size of contactor S3 product extension No • auxiliary switch Yes power loss [W] for rated value of the current 5.3 W • at AC in hot operating state 15.9 W • at AC in hot operating state 5.3 W • without load current share typical 7.3 W Insulation voltage 000 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 680 V • of main circuit with degree of pollution 3 rated value 680 V • of auxillary circuit rated value 64V • of auxillary circuit rated value 64V • of auxillary circuit rated value 680 V • of auxillary circuit rated value 680 V • of auxillary circuit rated value 680 V • at AC 10.3g / 5 ms, 6.g / 10 ms machinum permissible voltage for protective separation between coll and main contactor with added electronically optimized auxiliary switch block typical 1000 000 • at AC 10.3g / 5 ms, 10.g / 10 ms mechanical service life (operating cycles) 000 000 • of the contactor with added alectronically optimized auxiliary switch block typical 10000 000 • of the contactor with added auxiliary switch block typical	product designation	Power contactor
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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
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• 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 % maximum 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

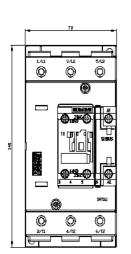
number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	125 A
value	
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	125 A
— 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	2.77
• 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	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
 with 3 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	80 A
— at 440 V rated value	4.5 A

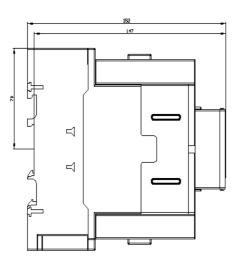
at 80 V miles value 228 A - at 81 V rates value 400 A - at 81 V rates value 40 A - at 80 V rates value 50 C S - at 80 V rates value 50 C C S - at 80 V rates value 50 C S - at 80 V rates value 50 C S - at 80 V rates value 50 C C S - at 80 V rates value 50 C C S - at 80 V rates value 50 C C C S - at 80 V rates value 50 C C C S - at 80 V rates value 50 C C C C S - at 80 V rates value 50 C C C C C C C C C C C C C C C C C C		
	— at 600 V rated value	2.6 A
	-	
# 220 V rade value1 A # 120 V rade value006 A # 120 V rade value100 A # 120 V rade value100 A # 120 V rade value100 A # 120 V rade value000 A # 120 V rade value020 A		
→ e80 V rated value 0.06 Å → with 2 current paths in series at DC-3 at DC-3 0.01 Å → at 34 V vited value 0.00 Å → at 60 V vited value 0.10 Å → at 60 V vited value 0.10 Å → at 60 V vited value 0.00 Å → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value		
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- at 24 Vrated value100 A- at 110 Vrated value100 A- at 220 Vrated value00 A- at 220 Vrated value00 A- at 420 Vrated value0.22 A- at 600 Vrated value0.16 A- at 600 Vrated value100 A- at 724 Vrated value100 A- at 724 Vrated value100 A- at 724 Vrated value00 A- at 724 Vrated value0.9 A- at 725 Vrated value25 A- at 725 Vrated value25 A- at 725 Vrated value25 AW- at 726 Vrated value37 AW- at 727 Vrated value25 AW- at 728 Vrated value37 AW- at 729 Vrated value37 AW- at 720 Vrated value <td></td> <td>0.06 A</td>		0.06 A
• with 3 current path in series at DC-3 at DC-5		
		0.16 A
		400 A
at 800 V rated value0.35 Åoperating power37 kW- at 230 V rated value37 kW- at 230 V rated value22 kW- at 400 V rated value37 kW- at 600 V rated value45 kW- at 600 V rated value45 kW- at 600 V rated value55 kW- at 600 V rated value55 kW- at 700 V rated value55 kW- at 700 V rated value22 kW- at 700 V rated value25 kW- at 600 V rated value37 kW- at 600 V rated value21 kW• up to 230 V for current pask value n=20 rated value69 kVA• up to 230 V for current pask value n=20 rated value69 kVA• up to 630 V for current pask value n=30 rated value60 kVA• up to 630 V for current pask value n=30 rated value51 kVA• up to 630 V for current pask value n=30 rated value43 k kVA• up to 630 V for current pask value n=30 rated value53 k kVA• u		
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short-time withstand current in cold operating state up to 40 °C1 500 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 500 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum1 186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum851 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum538 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum423 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency • at AC5 000 1/h		
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 • limited to 10 s switching at zero current maximum 851 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 538 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 423 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching frequency 423 A; Use minimum cross-section acc. to AC-1 rated value • at AC 5 000 1/h operating frequency 5 000 1/h		04.0 KVA
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• limited to 10 s switching at zero current maximum851 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum538 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum423 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency • at AC5 000 1/h• operating frequency5 000 1/h	 limited to 1 s switching at zero current maximum 	1 500 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum 538 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 423 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 5 000 1/h • at AC 5 000 1/h	 limited to 5 s switching at zero current maximum 	1 186 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum 423 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 5 000 1/h • at AC 5 000 1/h	 limited to 10 s switching at zero current maximum 	851 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency 5 000 1/h • at AC 5 000 1/h	 limited to 30 s switching at zero current maximum 	538 A; Use minimum cross-section acc. to AC-1 rated value
• at AC 5 000 1/h	 limited to 60 s switching at zero current maximum 	423 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency	no-load switching frequency	
	• at AC	5 000 1/h
• at AC-1 maximum 900 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	240 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
 apparent pick-up power of magnet coil at AC at 50 Hz 	296 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.61
apparent holding power of magnet coil at AC	
• at 50 Hz	19 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.38
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	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	6 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
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	77 A
● at 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

e for 3 phase AC motor			
for 3-phase AC motor at 200/208 V rated value	ba		
- at 200/208 V rated value 25 h			
— at 220/230 V rated value 30 h	•		
	60 hp		
— at 575/600 V rated value 60 h	·		
	00 / P600		
Short-circuit protection			
design of the fuse link			
 for short-circuit protection of the main circuit 			
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 gG:	: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
	180° rotation possible on vertical mounting surface; can be tilted forward and		
	ckward by +/- 22.5° on vertical mounting surface		
-	ew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
side-by-side mounting Yes			
) mm		
width 70 r			
	2 mm		
required spacing			
with side-by-side mounting			
— forwards 20 r			
— upwards 10 r	mm		
— downwards 10 r	mm		
— at the side 0 m	ım		
for grounded parts			
— forwards 20 r	mm		
— upwards 10 r	mm		
— at the side 10 r	mm		
— downwards 10 r	mm		
for live parts			
— forwards 20 r	mm		
— upwards 10 r	mm		
— downwards 10 r	mm		
— at the side 10 r	mm		
Connections/ Terminals			
type of electrical connection			
	ew-type terminals		
	ew-type terminals		
-	rew-type terminals		
	rew-type terminals		
type of connectable conductor cross-sections for main contacts			
	(2.5 35 mm²), 1x (2.5 50 mm²)		
connectable conductor cross-section for main contacts			
	16 mm²		
connectable conductor cross-section for auxiliary contacts			
-	2.5 mm ²		
	2.5 mm ²		
	2.9 000		
type of connectable conductor cross-sections			
for auxiliary contacts	(0 F 4 F mm ²) 0; (0 7 F 0 F mm ²)		
	(0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
	(0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
	(20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section			
• for main contacts 10 .			
for auxiliary contacts 20.	14		

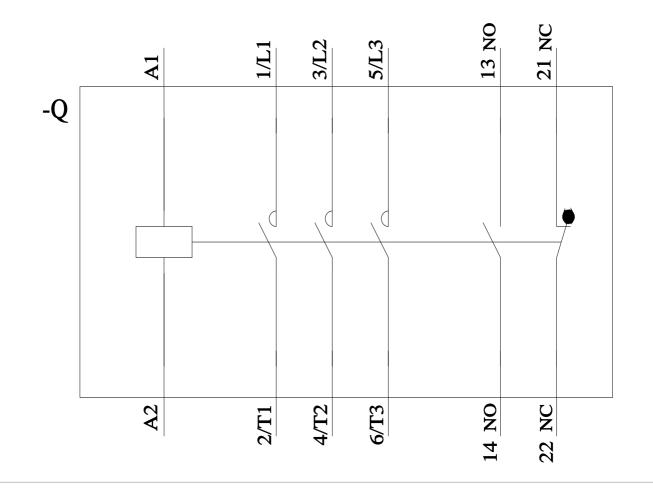
• positively driven suitability for use safet B10 value with high de proportion of danger					
• positively driven suitability for use safety B10 value with high de proportion of danger	ccording to IEC 60947-4-1		Yes		
suitability for use safety B10 value with high de proportion of danger	0	C 60947-5-1	No		
B10 value with high de	positively driven operation according to IEC 60947-5-1 ability for use safety-related switching OFF		Yes		
proportion of danger	B10 value with high demand rate according to SN 31920		1 000 000		
			1 000 000		
• with low definance	d rate according to SN 319	120	40 %		
with high deman	id rate according to SN 31		73 %		
	w demand rate according		100 FIT		
	interval or service life acco		20 a		
61508			20 0		
protection class IP or	n the front according to I	EC 60529	IP20		
touch protection on t	he front according to IEC	C 60529	finger-safe, for vertical conta	ict from the front	
ertificates/ approvals					
General Product App	roval				
6	(m)	Confirmation	ŝ	KC	гпг
QĽ	(m)		(%)		FHI
CSA	ccc		UL		LIIL
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	ĴÅ	Lloyd's Register	(3)		
ADS	DNV	185	DES	PINA	DIADS
Abs	DNV	0.5	FR3	NING	KNIK3
other	Railway	Dangerous Goo	d Environment		
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Confirmation	Vibration and Shock	Transport Informa			
			<u>firmations</u>		
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