SIEMENS

Data sheet

3RT2016-2AB02



Power contactor, AC-3 9 A, 4 kW / 400 V 1 NC, 24 V AC, 50 / 60 Hz 3-pole, Size S00 Spring-type terminal

product brand name SIRUS product designation Power contactor product designation 3RT2 Conoral technical data Size of contactor size of contactor S00 product designation No • auxiliary switch Yes opwer loss [W] for rated value of the current at AC in hot operating state 0.7 W opwer loss [W] for rated value of the current without foad current share typical 0.7 W surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary drout rated value 6 kV • of auxiliary solute resistance at rectangular impulse 6.7g / 5 ms, 4.2g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (switching cycles) 30 0000 000 • of the contactor with added auxiliary switch block typical 10 0000 • of contactor with added auxiliary switch block typical 10 0000 000 • of the contactor with added auxiliary switch block typical 2 000 m<		
product type designation 3RT2 Ceneral technical data	product brand name	SIRIUS
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size of contactor S00 product extension • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current at AC in hot operating state 0.7 W power loss [W] for rated value of the current without load current share typical 0.7 W power loss [W] for rated value of the current without load current share typical 6 kV surge voltage resistance 6 kV • of main circuit rated value 6 kV maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1 400 V shock resistance at rectangular impulse 6.7g / 5 ms, 4.2g / 10 ms • at AC 6.7g / 5 ms, 6.6g / 10 ms mechanical service life (switching cycles) 30 000 000 • 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 2 000 m anabient conditions 2 000 m instaliation altitude at height above sea level maximum 2 000 m ambient temperature -460 °C • during porajon		3RT2
product extension No • function module for communication No • auxiliary switch Yes power loss (W) for rated value of the current at AC in hot operating state 2.1 W • per pole 0.7 W power loss (W) for rated value of the current without load current share typical 4.2 W surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV or auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • ot AC EN (5 ms, 4.2g / 10 ms shock resistance at rectangular impulse • at AC • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (switching cycles) • 0 contactor with added electronically optimized auxiliary switch block • of the contactor with added auxiliary switch block 10 000 000	General technical data	
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• auxiliary switch Yes power loss [W] for rated value of the current at AC in hot operating state 2.1 W • per pole 0.7 W power loss [W] for rated value of the current without load current share typical 4.2 W surge voltage resistance 6 kV • of auxiliary circuit rated value 6 kV • at AC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 6,7g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (switching cycles) 30 000 000 • 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 subiliary switch block typical 10 000 000 etail conditions 110.2009 00:00:00 installation altitude at he	product extension	
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shock resistance with sine pulse 0.50 / 5 ms, 6,6g / 10 ms e at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (switching cycles) 30 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 01.10.2009 00:00:00 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 Main circuit 3 number of poles for main current circuit 3 number of NO contacts for main contacts 3	shock resistance at rectangular impulse	
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mechanical service life (switching cycles) 30 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 01.10.2009 00:00:00 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C Main circuit 3 number of poles for main current circuit 3 number of NO contacts for main contacts 3	shock resistance with sine pulse	
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Substance Prohibitance (Date) 01.10.2009 00:00:00 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 0 -25 +60 °C -25 +60 °C • during operation -25 +80 °C -25 +80 °C Main circuit 3 -25 +80 °C number of poles for main current circuit 3 3		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 Main circuit 3 number of poles for main current circuit 3 number of NO contacts for main contacts 3	reference code acc. to IEC 81346-2	Q
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• during operation -25 +60 °C • during storage -55 +80 °C Main circuit 3 number of poles for main current circuit 3 number of NO contacts for main contacts 3	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 3	ambient temperature	
Main circuit 3 number of poles for main current circuit 3 number of NO contacts for main contacts 3	during operation	-25 +60 °C
number of poles for main current circuit 3 number of NO contacts for main contacts 3	during storage	-55 +80 °C
number of NO contacts for main contacts 3	Main circuit	
	number of poles for main current circuit	3
operating voltage at AC-3 rated value maximum 690 V	number of NO contacts for main contacts	3
	operating voltage at AC-3 rated value maximum	690 V

operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	22 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
 at AC-4 at 400 V rated value 	8.5 A
 at AC-5a up to 690 V rated value 	19.4 A
 at AC-5b up to 400 V rated value 	7.4 A
● at AC-6a	
 up to 230 V for current peak value n=20 rated value 	5.3 A
 up to 400 V for current peak value n=20 rated value 	5.3 A
— up to 500 V for current peak value n=20 rated value	5.3 A
 — up to 690 V for current peak value n=20 rated value at AC-6a 	5 A
 at AC-ba — up to 230 V for current peak value n=30 rated value 	3.5 A
— up to 400 V for current peak value n=30 rated value	3.5 A
 — up to 500 V for current peak value n=30 rated value 	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
● at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
	1 A
— at 600 V rated value	
operational current	

— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	2 kV·A
• up to 400 V for current peak value n=20 rated value	3.6 kV·A
 up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	4.6 kV·A
• up to 690 V for current peak value n=20 rated value	5.9 kV·A
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1.3 kV·A
• up to 400 V for current peak value n=30 rated value	2.4 kV·A
• up to 500 V for current peak value n=30 rated value	3.1 kV·A
• up to 690 V for current peak value n=30 rated value	4 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	155 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	111 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	55 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	250 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	
	27 V·A
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz	27 V·A 24.3 V·A
apparent pick-up power of magnet coil at AC • at 50 Hz	
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz	
 apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil 	24.3 V·A

	_
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 V·A
• at 60 Hz	3.3 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC 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 	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
 at 110 V rated value 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	1 A
 at 600 V rated value 	0.15 A
operational current at DC-13	
 at 24 V rated value 	10 A
 at 48 V rated value 	2 A
 at 60 V rated value 	2 A
 at 110 V rated value 	1 A
 at 125 V rated value 	0.9 A
 at 220 V rated value 	0.3 A
at 600 V rated value	0.1 A
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	7.6 A
• at 600 V rated value	9 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required — with type of assignment 2 required 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)

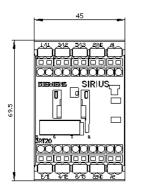
• for short-circuit protection of the auxiliary switch required

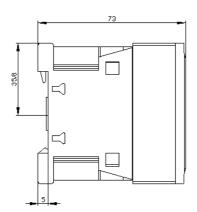
+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
Yes			
70 mm			
45 mm			
73 mm			
10 mm			
10 mm			
10 mm			
0 mm			
10 mm			
10 mm			
6 mm			
10 mm			
10 mm			
10 mm			
10 mm			
6 mm			
spring-loaded terminals			
spring-loaded terminals			
Spring-type terminals			
Spring-type terminals			
2x (0.5 4 mm²)			
2x (0,5 4 mm²)			
2x (0.5 2.5 mm²)			
2x (0.5 2.5 mm²)			
2x (20 12)			
0.5 4 mm ²			
0.5 4 mm ²			
0.5 2.5 mm ²			
0.5 2.5 mm²			
0.5 4 mm²			
0.5 2.5 mm²			
0.5 2.5 mm²			
2x (0,5 4 mm²)			
2x (0.5 2.5 mm ²)			
2x (0.5 2.5 mm ²)			
2x (20 12)			

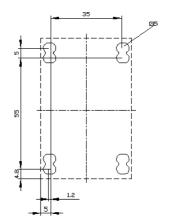
 for main contact 	ts		20	. 12			
 for auxiliary cor 			20	–			
Safety related data							
product function mi	rror contact acc. to IE	C 60947-4-1	Yes				
B10 value with high d	emand rate acc. to SN	31920	1 00	0 000			
proportion of dange	rous failures						
 with low deman 	d rate acc. to SN 3192	0	40 %	40 %			
 with high dema 	nd rate acc. to SN 319	20	73 %	6			
failure rate [FIT] with	ow demand rate acc. t	o SN 31920	100	100 FIT			
T1 value for proof te IEC 61508	st interval or service	life acc. to	20 y	20 у			
	on the front acc. to IE	C 60529	IP20				
	the front acc. to IEC			finger-safe, for vertical contact from the front			
suitability for use			iiiige				
 safety-related s 	witching OFF		Yes				
Certificates/ approval	-						
General Product Ap			_			EMC	
General Froduct Ap	provar					LING	
SP CM	CCC	(U) ui		KC	EAC	RCM	
Functional Safety/Safety of Machinery	Declaration of Con	formity		Test Certificates		Marine / Shipping	
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>UK Declaratio</u> Conformity		Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	
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Further information	umlandaantar (Catala	a Prochuroc	\ \				
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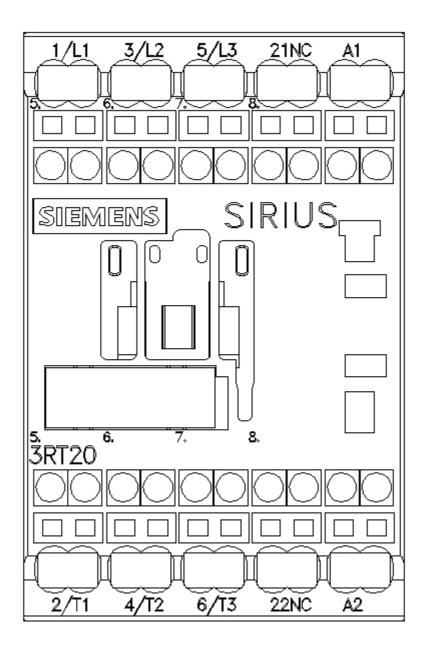
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2AB02&lang=en

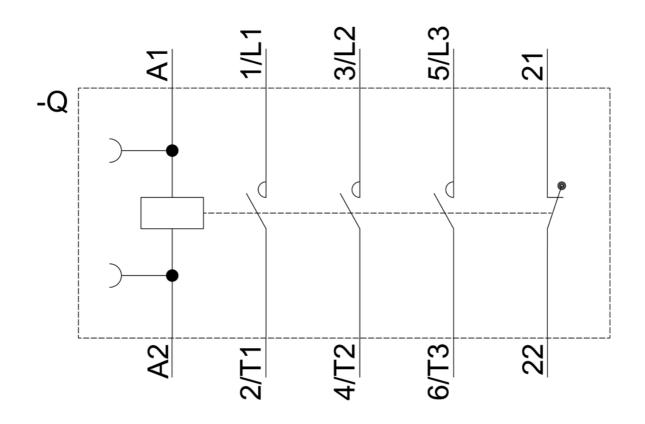
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AB02/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2AB02&objecttype=14&gridview=view1











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