SIEMENS

Data sheet

3RT2015-1AP01



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 230 V AC, 50 / 60 Hz 3-pole, Size S00 screw terminal

product disignation Sindos product disignation 3RT2 Ganaral technical data size of contactor is contactor S00 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 0.4 W • per pole 0.4 W • per pole 0.4 W • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 10.5g / 5 ms, 6.8g / 10 ms mechanical service life (switching cycles) 30 000 00 • of the contactor with added auxiliary switch block typical 10 000 00 usiliary switch block typical 0 000 00 • of the contactor with added auxiliary switch block typical 10 000 00 • of the contactor with added auxiliary switch block typical </th <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
product type designation 3RT2 General technical data	•	
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number of poles for main current circuit 3 number of NO contacts for main contacts 3		-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

-
18 A
18 A
16 A
7 A
6 A
4.9 A
6.5 A
15.8 A
5.8 A
4 A
4 A
3.8 A
3.6 A
2.7 A
2.7 A
2.7 A 2.5 A
2.4 A
2.5 mm ²
2.6 A
1.8 A
15 A
1.5 A
0.6 A
0.42 A
0.42 A
15 A
8.4 A
1.2 A
0.6 A
0.5 A
45.4
15 A
15 A
15 A
15 A 0.9 A
15 A
15 A 0.9 A

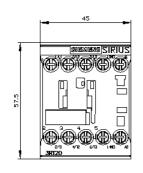
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	1.5 kV·A
• up to 400 V for current peak value n=20 rated value	2.7 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 	3.3 kV·A
• up to 690 V for current peak value n=20 rated value	4.3 kV·A
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1 kV·A
• up to 400 V for current peak value n=30 rated value	1.8 kV·A
• up to 500 V for current peak value n=30 rated value	2.2 kV·A
• up to 690 V for current peak value n=30 rated value	2.9 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	43 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	230 V
• at 60 Hz rated value	230 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
at 60 Hz apparent pick-up power of magnet coil at AC	0.85 1.1
	27 V·A
apparent pick-up power of magnet coil at AC	
apparent pick-up power of magnet coil at AC • at 50 Hz	27 V·A
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz	27 V·A
 apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil 	27 V·A 24.3 V·A

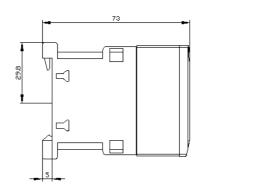
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 V·A
• at 60 Hz	3.3 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of 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	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 	4.8 A
 at 600 V rated value 	6.1 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	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 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
	80kA)

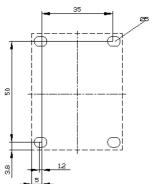
\bullet for short-circuit protection of the auxiliary switch required

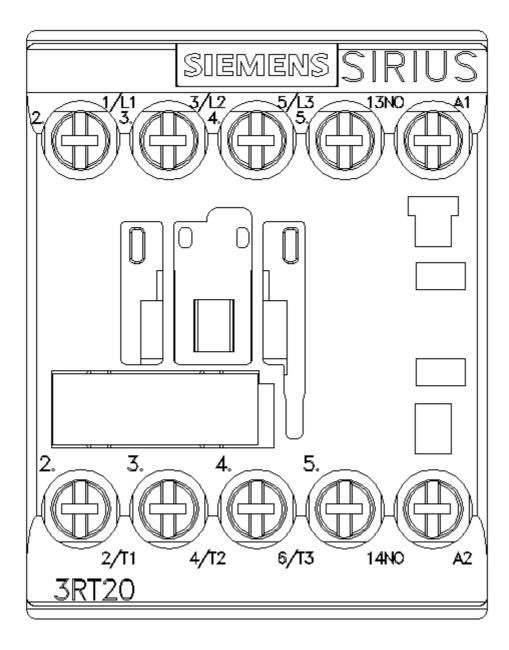
lequired			
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
 side-by-side mounting 	Yes		
height	58 mm		
width	45 mm		
depth	73 mm		
required spacing			
 with side-by-side mounting 			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
 for live parts 			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
 for main current circuit 	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 			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 at AWG cables for main contacts 	2x (20 16), 2x (18 14), 2x 12		
connectable conductor cross-section for main contacts			
• solid	0.5 4 mm ²		
 stranded 	0.5 4 mm ²		
 finely stranded with core end processing 	0.5 2.5 mm²		
connectable conductor cross-section for auxiliary contacts			
 solid or stranded 	0.5 4 mm ²		
 finely stranded with core end processing 	0.5 2.5 mm²		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12		
AWG number as coded connectable conductor cross section			
 for main contacts 	20 12		
 for auxiliary contacts 	20 12		
Safety related data	Ves: with 3PH20		
product function mirror contact acc. to IEC 60947-4-1	Yes; with 3RH29		

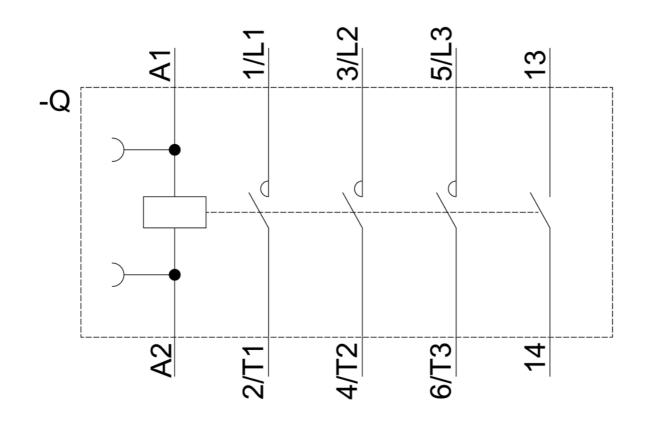
B10 value with high d	emand rate acc. to SN 3	31920 1 0	000 000					
proportion of dange	rous failures							
 with low deman 	• with low demand rate acc. to SN 31920 40 %							
 with high demand 	nd rate acc. to SN 3192	0 73	%					
failure rate [FIT] with I	failure rate [FIT] with low demand rate acc. to SN 31920			100 FIT				
T1 value for proof te IEC 61508	st interval or service l	ife acc. to 20	у					
protection class IP of	on the front acc. to IEC	60529 IP2	20					
touch protection on	the front acc. to IEC 6	0529 fing	ger-safe, for vertical conta	act from the front				
suitability for use								
 safety-related s 	witching OFF	Ye	s					
Certificates/ approval	S							
General Product Ap	proval				EMC			
(Sp)			<u>KC</u>	EHC	RCM			
Functional Safety/Safety of Machinery	Declaration of Confo	ormity	Test Certificates		Marine / Shipping			
<u>Type Examination</u> <u>Certificate</u>	UK Declaration of Conformity	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS			
Marine / Shipping								
B U R E A U VERITAS	Lloyds Register urs	PRS	RINA	RMRS	DNV-GL DNV-GL			
other								
<u>Confirmation</u>	Confirmation Confirmation							
Further information								
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=3RT2015-1AP01							
Cax online generato		CAXorder/default asr	x?lang=en&mlfb=3RT20	15-1AP01				
Service&Support (M https://support.industr Image database (pro http://www.automation	anuals, Certificates, C <u>y.siemens.com/cs/ww/e</u> duct images, 2D dime	haracteristics, FAQ en/ps/3RT2015-1APO nsion drawings, 3D ax_de.aspx?mlfb=3R	ls,) 11 0 models, device circuit 172015-1AP01⟨=en		cros,)			
https://support.industr Further characterist	<u>y.siemens.com/cs/ww/e</u> ics (e.g. electrical end	n/ps/3RT2015-1AP0 urance, switching fi	<u>)1/char</u>)1&objecttype=14&gridv	<u>view=view1</u>			











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