SIEMENS

Data sheet

3RT2018-1BB41



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal

size of contactor S00 product extension No • atuxiliary switch Yes power loss [W] for rated value of the current 3 W • at AC in hot operating state 3 W • at AC in hot operating state per pole 1 W • without load current share typical 4 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 680 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • of auxiliary switch block typical 30 000 V • of auxiliary switch block 30 000 000 • at DC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating 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		
product type designation 3RT2 Constrait technical data Stop of contactor Stop of contactor size of contactor Stop of contactor Stop of contactor • function module for communication No • auxiliary switch Yes • auxiliary switch Yes • auxiliary switch Yes • at AC in hot operating state 3 W • at AC in hot operating state per pole 1 W • without load current share typical 4 W W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 6 kV 6 kV 6 kV • of auxiliary circuit rated value 6 kV 6 kV 6 kV • of auxiliary circuit rated value 6 kV 6 kV 6 kV • of auxiliary circuit rated value 6 kV 6 kV 6 kV • at DC 7.3g / 5 ms, 4.7g / 10 ms 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 5 000 000 </th <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
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Ambient conditions installation altitude at height above sea level maximum ambient temperature	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m 2 000 m	Substance Prohibitance (Date)	10/01/2009
ambient temperature	Ambient conditions	
	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during operation -25 +60 °C	during operation	-25 +60 °C
• during storage -55 +80 °C	 during storage 	-55 +80 °C
relative humidity minimum 10 %	relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum		95 %
Main circuit	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-3 rated value maximum at AC-3e rated value maximum	690 V
operational current	000 V
• 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	20 A
rated value	20 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	
— at 400 V rated value	16 A
— at 500 V rated value — at 690 V rated value	12.4 A 8.9 A
 at AC-4 at 400 V rated value 	0.9 A 11.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	13.2 A
● at AC-6a	
 up to 230 V for current peak value n=20 rated 	9.6 A
value	
 — up to 400 V for current peak value n=20 rated value 	9.6 A
— up to 500 V for current peak value n=20 rated	9.6 A
value	
— up to 690 V for current peak value n=20 rated	8.9 A
value ● at AC-6a	
 up to 230 V for current peak value n=30 rated 	6.6 A
value	0.077
 — up to 400 V for current peak value n=30 rated 	6.4 A
value	
 — up to 500 V for current peak value n=30 rated value 	6.4 A
— up to 690 V for current peak value n=30 rated	6.4 A
value	
minimum cross-section in main circuit at maximum AC-1	4 mm ²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value — at 220 V rated value	2.1 A 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	0.071
— at 24 V rated value	20 A
— at 60 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 60 V rated value	20 A 20 A
	_0/1

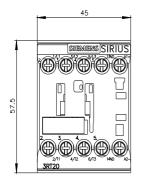
rated value respective range factor control supply voltage rated	24 V
control supply voltage at DC	24.14
type of voltage of the control supply voltage	DC
	DC
Control circuit/ Control	
• at AC-4 maximum	250 1/h
• at AC-3e maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-2 maximum	750 1/h
• at AC-1 maximum	1 000 1/h
operating frequency	
• at DC	10 000 1/h
no-load switching frequency	
 limited to 60 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	92 A; Use minimum cross-section acc. to AC-1 rated value
 Imited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value 169 A; Use minimum cross-section acc. to AC-1 rated value
	300 A: Lice minimum cross spetion and to AC 4 reteductus
short-time withstand current in cold operating state up to 40 °C	
• up to 690 V for current peak value n=30 rated value	7.6 kVA
• up to 500 V for current peak value n=30 rated value	5.5 kVA
• up to 400 V for current peak value n=30 rated value	4.4 kVA
• up to 230 V for current peak value n=30 rated value	2.5 kVA
operating apparent power at AC-6a	
• up to 690 V for current peak value n=20 rated value	10.6 kVA
 up to 500 V for current peak value n=20 rated value 	8.3 kVA
 up to 400 V for current peak value n=20 rated value 	6.6 kVA
 up to 230 V for current peak value n=20 rated value 	3.8 kVA
operating apparent power at AC-6a	
• at 690 V rated value	3.5 kW
• at 400 V rated value	2.5 kW
at AC-4	
operating power for approx. 200000 operating cycles	
— at 690 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 400 V rated value	7.5 kW
— at 230 V rated value	4 kW
• at AC-3e	
— at 690 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 400 V rated value	7.5 kW
— at 230 V rated value	4 kW
• at AC-3	
operating power	
— at 600 V rated value	0.2 A
— at 440 V rated value	0.2 A
— at 220 V rated value	1.5 A
— at 110 V rated value	20 A
— at 60 V rated value	20 A
— at 24 V rated value	20 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 110 V rated value	0.35 A
— at 60 V rated value	5 A
— at 24 V rated value	20 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 110 V rated value	0.15 A
— at 60 V rated value	0.5 A
— at 24 V rated value	20 A
• at 1 current path at DC-3 at DC-5	
— at 600 V rated value	1 A
— at 440 V rated value	1.3 A
— at 220 V rated value	20 A

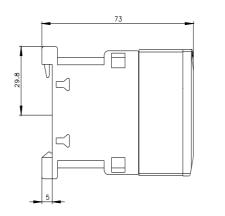
operating range factor control supply voltage rated

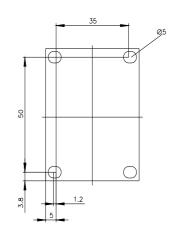
value of magnet coil at DC	
• initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts	1
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 	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 at 600 V rated value 	1 A 0.15 A
	U. 15 A
operational current at DC-13	10 A
 at 24 V rated value at 48 V rated value 	2 A
at 40 V rated value	2 A 2 A
at 110 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 220 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	14 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 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	10 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: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (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 	gG: 10 A (500 V, 1 kA)
required	
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
e side by side mounting	
side-by-side mounting	Yes

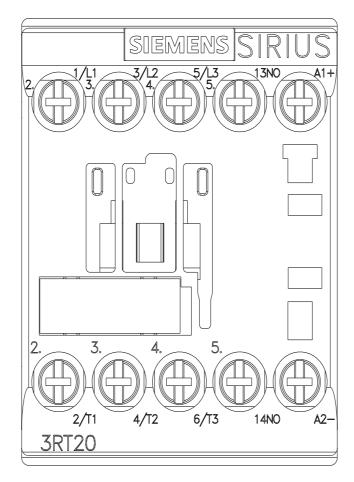
haight	50 mm
height	58 mm
width depth	45 mm 73 mm
required spacing	7311111
with side-by-side mounting	
- forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— 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)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
 stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 4 mm²
 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 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
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	
product function	
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29
B10 value with high demand rate according to SN 31920	1 000 000
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 suitability for use	finger-safe, for vertical contact from the front
 safety-related switching OFF 	Yes

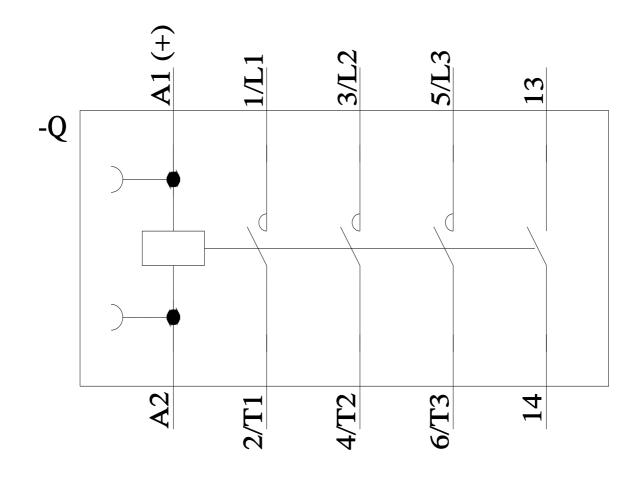
Certificates/ approval	S				
General Product Ap	oproval				
(SP)		<u>Confirmation</u>		<u>KC</u>	EHC
EMC	Functional Safety/Safety of Machinery	Declaration of Confo	ormity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate
Test Certificates	Marine / Shipping				
<u>Miscellaneous</u>	ABS			Lloyds Register us	PRS
Marine / Shipping		other		Railway	Dangerous Good
Marine / Shipping	RMPS	other Confirmation		Railway	Dangerous Good Transport Informa- tion
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