SIEMENS

Data sheet

3RT2018-1AF01



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
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 	3 W
 at AC in hot operating state per pole 	1 W
 without load current share typical 	1.5 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
 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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.233 kg
Ambient conditions	
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 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	39.6 kg
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 kg
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-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	22 A
— 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	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	12.4 A
— at 690 V rated value	8.9 A
• at AC-4 at 400 V rated value	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	0.6.4
— up to 230 V for current peak value n=20 rated value	9.6 A 9.6 A
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	9.6 A
— up to 690 V for current peak value n=20 rated value	8.9 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	6.6 A
— up to 400 V for current peak value n=30 rated value	6.4 A
— 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 value	6.4 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	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	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	20.4
— at 24 V rated value	20 A 20 A
— at 60 V rated value	20 A 12 A
— at 110 V rated value — at 220 V rated value	12 A 1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
	0.7 A

• with 5 current paths in series at UC-1		
	with 3 current paths in series at DC-1	
- al 400 Vrated value13 Å- al 600 Vrated value1A- al 20 V rated value20 Å- al 20 V rated value05 Å- al 20 V rated value05 Å- al 10 V rated value20 Å- al 20 V rated value75 KW- al 20 V rated value75 KW- al 20 V rated value75 KW- al 20 V rated value25 KW- al 20 V rated value31 KVA- al 20 V rated value25 KW- al 20 V rated value25 KW- al 20 V rated value25 KW- al 20 V rated value31 KVA- al 20 V rated value25 KW- al 20 V rated value25 KW- al 20 V rated value30 KVA <td></td> <td></td>		
• af 1 current path af 0-2 af 0-5- af 34 V ridet value0.5 A- af 10 V ridet value0.15 A- af 10 V ridet value20 A- af 34 V ridet value0.35 A- af 34 V ridet value0.36 A- af 340 V ridet value7.5 KW- af 340 V ridet value8.5 KM- af 340 V ridet value ==20 ridet value8.5 KM- af 340 V ridet value ==20 ridet value8.5 KM- af 340 V ridet value ==20 ridet value8.5 KM- af 340 V ridet value ==20 ridet value8.5 KM- af 340 V ridet value ==20 ridet value8.5 KM- af 340 V ridet value ==20 ridet value <td></td> <td></td>		
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at 24 V relationship20 A at 30 V rated value5 A at 30 V rated value20 A at 220 V rated value20 A		0.15 A
- at 10 V rade value5 A- at 10 V rade value05 A- at 24 V rade value02 A- at 24 V rade value20 A- at 20 V rade value20 A- at 10 V rade value20 A- at 22 0 V rade value20 A- at 22 0 V rade value20 A- at 20 V rade value20 A- at 20 V rade value20 A- at 400 V rade value20 A- at 400 V rade value20 A- at 400 V rade value4 KW- at 400 V rated value75 KW- at 600 V rade value76 KW- at 600 V rade value70 KA- at 600 V rade value70 KA	-	
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A textA textup to 400 V for current peak value n=30 rated value5.5 kVAup to 690 V for current peak value n=30 rated value7.6 kVAshort-time withstand current in cold operating state up to do C300 A; Use minimum cross-section acc. to AC-1 rated valuei limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated valuei limited to 1 s switching at zero current maximum169 A; Use minimum cross-section acc. to AC-1 rated valuei limited to 1 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated valuei limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated valuei limited to 60 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated valuei limited to 60 s switching at zero current maximum100 n/horearting frequency1000 n/hi at AC-1 maximum1000 n/hi at AC-1 maximum1000 n/hi at AC-1 maximum750 n/hi at AC-1 maximum750 n/hi at AC-2 maximum750 n/h		2.5 kVA
• up to 500 V for current peak value n=30 rated value5.5 kVA• up to 690 V for current peak value n=30 rated value7.6 kVAshort-time withstand current in cold operating state up to 40 °C300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum169 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1000 1/h• at AC10000 1/h• at AC-1 maximum1000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h		
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• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency10 000 1/h• at AC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h	 limited to 1 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency10 000 1/h• at AC10 000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h	 limited to 5 s switching at zero current maximum 	169 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency-• at AC10 000 1/hoperating frequency-• at AC-1 maximum1 000 1/h• at AC-2 maximum1 000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h	 limited to 10 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency10 000 1/h• at AC10 000 1/hoperating frequency-• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h	 limited to 30 s switching at zero current maximum 	92 A; Use minimum cross-section acc. to AC-1 rated value
• 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	 limited to 60 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h	no-load switching 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	10 000 1/h
• at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h	operating frequency	
• at AC-3 maximum 750 1/h	● at AC-1 maximum	1 000 1/h
	• at AC-2 maximum	750 1/h
• at AC-3e maximum 750 1/h	• at AC-3 maximum	750 1/h
	● at AC-3e 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	110 V
at 60 Hz rated value	110 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	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	0.9
• at 50 Hz • at 60 Hz	0.8
apparent holding power of magnet coil at AC	0.10
apparent holding power of magnet con at AC o at 50 Hz	5.7 VA
• at 60 Hz	4.4 VA
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	4 15 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	40.4
at 24 V rated value	10 A
 at 48 V rated value at 60 V rated value 	6 A
at 50 V rated value at 110 V rated value	6 A 3 A
at 110 V rated value at 125 V rated value	2 A
at 220 V rated value	1A
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
a at 220 V rated value	
 at 220 V rated value 	0.3 A
 at 220 V rated value at 600 V rated value 	0.3 A 0.1 A
• at 600 V rated value	0.1 A
at 600 V rated value contact reliability of auxiliary contacts	0.1 A
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings	0.1 A
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp]	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 14 A
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 14 A

— 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 required 	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
fectories mathematical side by side manufics	
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	58 mm 45 mm
width	
depth	73 mm
required spacing	
with side-by-side mounting forwards	10 mm
— forwards	10 mm
— upwards	10 mm
- downwards	10 mm
— at the side	0 mm
for grounded parts	10
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	10
— 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 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²
— 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)
for 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)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12

	connectable conducto	or cross			
section			20 12		
• for main contacts			20 12		
for auxiliary conta	CIS		20 12		
afety related data					
product function					
	ording to IEC 60947-4-1	/	Yes; with 3RH29		
	peration according to IEC	C 60947-5-1	No		
 suitable for safety 			Yes		
suitability for use safety-	related switching OFF		Yes		
service life maximum			20 a		
test wear-related servi			Yes		
proportion of dangero					
	rate according to SN 319		40 %		
	rate according to SN 319		73 %		
	mand rate according to		1 000 000		
31920	ow demand rate accord	ing to SN	100 FIT		
ISO 13849					
device type according			3		
overdimensioning acc IEC 61508	ording to ISO 13849-2 n	ecessary	Yes		
safety device type acc	ording to IEC 61508-2		Туре А		
Electrical Safety					
	the front according to I	EC 60529	IP20		
			finger-safe, for vertical con	tact from the front	
pprovals Certificates	-		-		
General Product Appr	oval CE EG-Konf.	UK	Confirmation	3	(UL)
	CE EG-Konf.			CCC	
General Product Appr	CE EG-Konf.		Confirmation Test Certificates	CCC	UL UL
	CE EG-Konf.			ccc special Test Certific- ate	UL Marine / Shipping
CCC	CE EG-Konf.		Test Certificates		Warine / Shipping
General Product Appr KC	CE EG-Konf.		Test Certificates		Marine / Shipping
General Product Appr KC	CEG-Konf.	EMV RCM RCM	Test Certificates		Marine / Shipping
General Product Appr KC Marine / Shipping	CEG-Konf.	EMV RCM RCM	Test Certificates Type Test Certific ates/Test Report image: state of the state	ate	Warine / Shipping Warine / Shipping <t< td=""></t<>
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CCC General Product Appr KC Marine / Shipping UREAU UREAU Sother Miscellaneous urther information Information on the pace https://support.industry.su Information- and Dowr https://www.siemens.com	EG-Konf.	EMV EMV RCM Confirmation Confirmation EW/109813875 Brochures,)	Test Certificates Type Test Certific ates/Test Report Image: Special Test Certificates Special Test Certificates	ate	ABS ABS

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1AF01

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

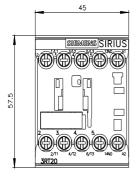
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AF01

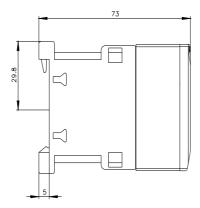
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1AF01&lang=en

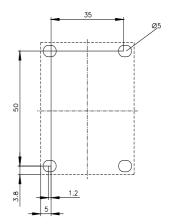
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AF01/char

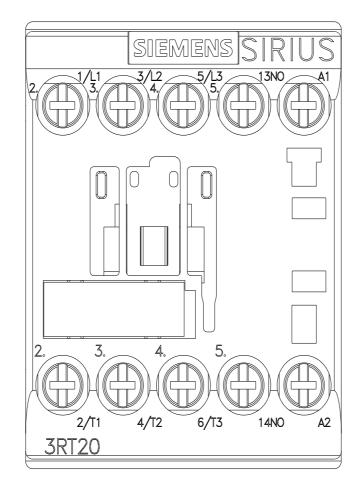
Further characteristics (e.g. electrical endurance, switching frequency)

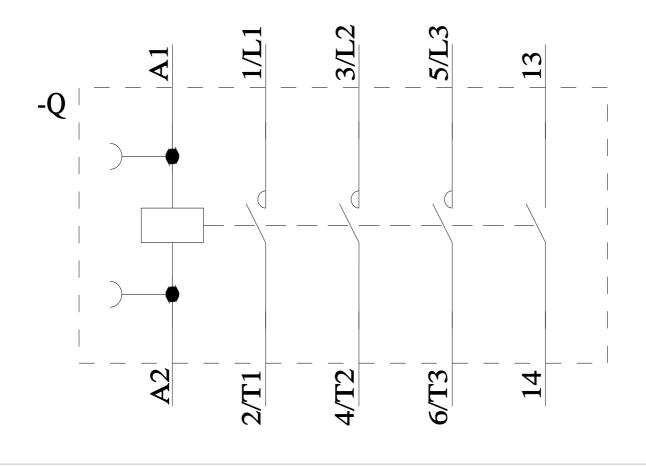
earch&mlfb=3RT2018-1AF01&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S











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