SIEMENS

Data sheet

3RT2016-2AF01



Power contactor, AC-3 9 A, 4 kW / 400 V 1 NO, 110 V AC, 50/60 Hz 3-pole, Size S00 Spring-type terminal

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	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	
 of main circuit rated value 	6 kV
 of auxiliary 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	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching 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 acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-25 +60 °C
 ambient temperature during storage 	-55 +80 °C
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
operational current	
-personal outlond	

 at AC-1 at 400 V at ambient temperature 40 °C rated value 	22 A
• 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	5 A
• at AC-6a	
— 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	20 A 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	0.17
— 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
— at 600 V rated value	1 A
operational current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A

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apparent holding power of magnet coil at AC	
• at 60 Hz	0.75
• at 50 Hz	0.8
inductive power factor with closing power of the coil	
● at 60 Hz	24.3 V·A
● at 50 Hz	27 V·A
apparent pick-up power of magnet coil at AC	
• at 60 Hz	0.85 1.1
● at 50 Hz	0.8 1.1
value of magnet coil at AC	
operating range factor control supply voltage rated	
• at 60 Hz rated value	110 V
• at 50 Hz rated value	110 V
control supply voltage at AC	
type of voltage of the control supply voltage	AC
Control circuit/ Control	
• at AC-4 maximum	250 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 AC	10 000 1/h
no-load switching frequency	
 limited to 60 s switching at zero current maximum 	55 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 10 s switching at zero current maximum 	86 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 1 s switching at zero current maximum 	155 A; Use minimum cross-section acc. to AC-1 rated value
up to 40 °C	
short-time withstand current in cold operating state	
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	3.1 KV·A 4 kV·A
 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	3.1 kV·A
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	2.4 kV·A
operating apparent power at AC-6a	1.3 kV·A
• up to 690 V for current peak value n=20 rated value	J.J. KV A
	4.6 KV·A 5.9 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 400 V for current peak value n=20 rated value	3.6 kV·A
• up to 230 V for current peak value n=20 rated value	2 kV·A
operating apparent power at AC-6a	
at 690 V rated value	2.5 kW
at 400 V rated value	2 kW
operating power for approx. 200000 operating cycles at AC-4	
— at 690 V rated value	5.5 kW
— at 500 V rated value	4 kW
— at 400 V rated value	4 kW
— at 230 V rated value	2.2 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 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 24 V rated value	20 A
 with 2 current paths in series at DC-3 at DC-5 	

● 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	3.5 14 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	10.4
• at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A 1 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
 at 220 V rated value at 600 V rated value 	0.3 A 0.1 A
contact reliability of auxiliary contacts	
UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)
full-load current (FLA) for 3-phase AC motor	7.6 A
at 480 V rated value	
• at 600 V rated value yielded mechanical performance [hp]	9 A
for single-phase AC motor	
- at 110/120 V rated value	0.33 hp
— at 230 V rated value	0.55 hp 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	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 20A (690V, 100kA), BS88: 20A (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 standard mounting rail according to DIN EN 60715
 side-by-side mounting 	Yes
height	70 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 	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
 for main contacts 	
— solid	2x (0.5 4 mm ²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (20 12)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
 stranded 	0.5 4 mm ²
 finely stranded with core end processing 	0.5 4 mm 0.5 2.5 mm ²
 finely stranded with out core end processing 	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	0.0 2.0 mm
 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
 finely stranded without core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)
— finely stranded without core end processing	2x (0.5 2.5 mm ²)
at AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section for main contacts	20 12
AWG number as coded connectable conductor	20 12

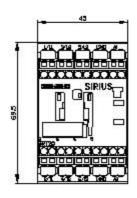
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T1 value for proof test interval or service life acc. to IEC 60529 20 y protection class IP on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front suitability for use safety-related switching OFF Yes Certificates/ approvals EMC General Product Approval EMC Certificates/ contact from the front acc. to IEC 60529 IF20 Umbed for the front acc. to IEC 60529 IF20 Certificates/ approvals EMC	-		Ver				
 mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29 20 y 20 y protection class IP on the front acc. to IEC 60529 protection on the front acc. to IEC 60529 suitability for use safety-related switching OFF Certificates/ approvals General Product Approval EMC KC		in low demand rate acc. to	SN 31920 100	FII			
product function • mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29 T1 value for proof test interval or service life acc. to 20 y IEC 61508 IP20 protection class IP on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 Inger-safe, for vertical contact from the front suitability for use safety-related switching OFF Yes Certificates/ approvals EMC General Product Approval EMC							
failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT product function mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29 100 FIT 1 value for proof test interval or service life acc. to IEC 60529 20 y protection class IP on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front suitability for use safety-related switching OFF Yes Certificates/ approvals EMC General Product Approval EMC							
 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 for function mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29 20 y protection class IP on the front acc. to IEC 60529 protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front yes Certificates/ approvals EMC EMC		-					
 with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT product function mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29 20 y protection class IP on the front acc. to IEC 60529 protection on the front acc. to IEC 60529 protection class lP on the front acc. to IEC 60529 protection class lP on the front acc. to IEC 60529 protection on the front acc. to IEC 60529 protection class acc. to IEC 60529 protecl	B10 value with high	demand rate acc. to SN	31920 1 0	000 000			
proportion of dangerous failures 40 % • with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT product function • mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29 T1 value for proof test interval or service life acc. to IEC 60529 20 y protection class IP on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front suitability for use safety-related switching OFF Yes Certificates/ approvals EMC General Product Approval EMC							
B10 value with high demand rate acc. to SN 31920 1 000 000 proportion of dangerous failures 40 % • with low demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 1000 FIT product function • mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29 T1 value for proof test interval or service life acc. to IEC 60529 IP20 fouch protection on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front suitability for use safety-related switching OFF Yes Certificates/ approvals EMC General Product Approval Image: Safe acc acc acc acc acc acc acc acc acc ac	Safety related data						
B10 value with high demand rate acc. to SN 31920 1 000 000 proportion of dangerous failures 40 % • with low demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 1000 FIT product function • mirror contact acc. to IEC 60947-4-1 Yes; with 3RH29 T1 value for proof test interval or service life acc. to IEC 60529 IP20 fouch protection on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front suitability for use safety-related switching OFF Yes Certificates/ approvals EMC General Product Approval Image: Safe acc acc acc acc acc acc acc acc acc ac		or auxiliary contacts	_				

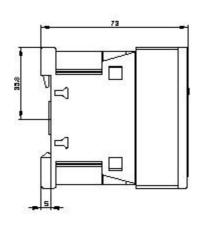
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2AF01&lang

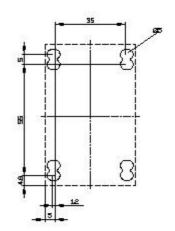
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AF01/char

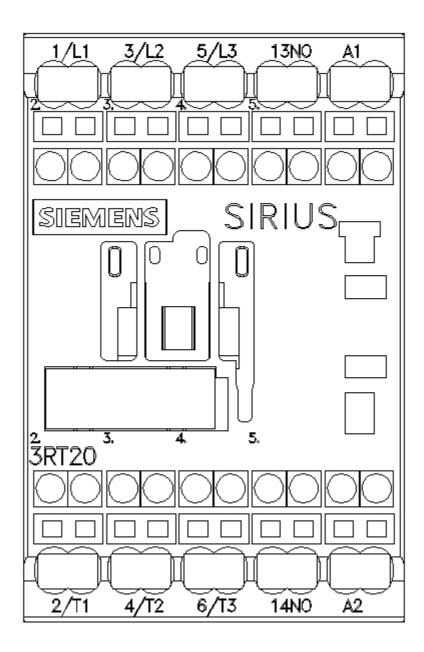
Further characteristics (e.g. electrical endurance, switching frequency)

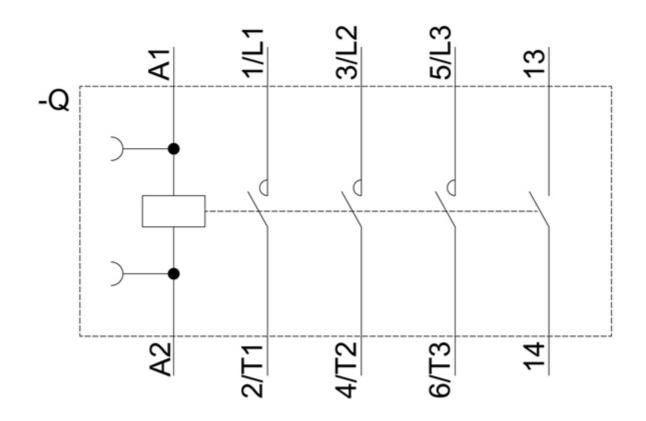












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