SIEMENS

Data sheet

3RT2017-1AQ02



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 380 V AC, 50/60 Hz, auxiliary contacts: 1 NC, 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 	1.5 W
 at AC in hot operating state per pole 	0.5 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	0.23 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	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
- at 690 V rated value	6.7 A
at AC-4 at 400 V rated value	8.5 A 19.4 A
 at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value 	9.9 A
• at AC-6a	5.5 A
 up to 230 V for current peak value n=20 rated value 	7.2 A
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
— up to 690 V for current peak value n=20 rated value	6.7 A
• at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
 — up to 500 V for current peak value n=30 rated value 	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 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 60 V rated value	20 A 20 A
— at 100 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 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

a with 2 autrent notion in partice at DC 1	
with 3 current paths in series at DC-1 — at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A 20 A
— at 440 V rated value	1.3 A
	1.5 A
— at 600 V rated value	TA
at 1 current path at DC-3 at DC-5 — at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 10 V rated value	0.15 A
	0.15 A
 with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 	20 A
— at 60 V rated value	5 A
	0.35 A
 — at 110 V rated value with 3 current paths in series at DC-3 at DC-5 	0.55 A
- at 24 V rated value	20 A
— at 60 V rated value	20 A 20 A
— at 10 V rated value	20 A 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	V.2 A
at AC-2 at 400 V rated value	5.5 kW
• at AC-3	0.0 KW
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 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 	2.8 kVA
 up to 400 V for current peak value n=20 rated value 	4.9 kVA
 up to 500 V for current peak value n=20 rated value 	6.2 kVA
 up to 690 V for current peak value n=20 rated value 	8 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1.9 kVA
 up to 400 V for current peak value n=30 rated value 	3.3 kVA
• up to 500 V for current peak value n=30 rated value	4.1 kVA
 up to 690 V for current peak value n=30 rated value 	5.7 kVA
short-time withstand current in cold operating state up to 40 °C	
Imited to 1 s switching at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	123 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	40,000 4/h
• at AC	10 000 1/h
operating frequency	1,000,1/b
• at AC-1 maximum	1 000 1/h
at AC-2 maximum at AC-3 maximum	750 1/h 750 1/h
• at AC-3 maximum	750 1/h

	750 4/4
• 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	380 V
• at 60 Hz rated value	380 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	
at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	0.15
apparent holding power of magnet con at AC • at 50 Hz	5.7 VA
• at 50 Hz	4.4 VA
	4.4 V/1
inductive power factor with the holding power of the coil	0.05
• 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 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 230 V rated value at 400 V rated value 	10 A 3 A
• at 400 V rated value	3 A
at 400 V rated valueat 500 V rated value	3 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value 	3 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12	3 A 2 A 1 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value 	3 A 2 A 1 A 10 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value 	3 A 2 A 1 A 10 A 6 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
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— at 110/120 V rated value	0.5 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	3 hp
— at 460/480 V rated value	7.5 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 50A (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)
 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
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
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)
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 mm²
• 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	

• et rAWG caches for auxiliary centeds 2x (2) 10; 2x (18 14; 2x 12 AWG multers conductors conde consectable conductor cross 20 12 • is main contracts 20 12 • is auxiliary centeds 20 12 • is auxiliary centeds 20 12 • environ contracts	-	led with core end processi	ing	2x (0.5	5 1.5 mm²), 2x (0.75		
e for reain contracts 2012 control contro	AWG number as code	-	r cross	2x (20	16), 2x (18 14), 1	2x 12	
evices 2012 Stretzered to the field of the Constraint of	section						
Stately related data Forduct Amelian indiract contract according to EC 60947-4-1 is calledy driven operation according to EC 60947-5-1 is calledy driven operation according to EN 31920 is with box demand clas according to SN 31920 is with with drive demand clas according to SN 31920 is with with drive demand clas according to SN 31920 is with with drive demand clas according to SN 31920 is with with drive demand clas according to SN 31920 is with with drive demand clas according to SN 31920 is with with drive demand clas according to IEC 68529 is with with drive demand clas according to IEC 68529 is with with drive demand clas according to IEC 68529 is with with drive demand clas according to IEC 68529 is with with drive demand clas according to IEC 68529 is with with drive demand clas according to IEC 68529 is with with drive demand clas according to IEC 68529 is with with drive demand clas according to IEC 68529 is with with drive demand clas according to IEC with class according to IEC with class according to IEC with class according to IEC wit							
product function • minimer contails according to EC 60947-4-1 • positively driven operation according to EC 60947-5-1 • No • utable for safety function • use sub-related su		acts		20 1	12		
nimor contral according to EC 40047-5-1 Yes - sublable for aship/inclion No - sublable for aship/inclion Yes - sublable darvice if managerous failures 1000 000 - sublable darvice if managerous failures 1000 000 - sublable darvice if managerous failures 1000 000 - sublable darvice if the according to SN 13202 7.3 % - Store according to ISO 13849-2 Type A - Sublable darvice if the fort according to IEC 60523 IP20 - sublable darvice if the fort according to IEC 60523 IP20 - sublable darvice if the fort according to IEC 60523 IP20 - sublable darvice if the fort according to IEC 60523 IP20 - sublable darvice if the fort according to IEC 60523 IP20 - sublable darvice if the fort according to IEC 60523 IP20 - sublable darvice if the fort according to IEC 60523 IP20 - sublable darvice if the fort according to IEC 60523 IP20 - sublable darvice if the fort according to IEC 60525 IP20 -	Safety related data						
e-pointweld drive appendix according to EC 00947-5-1 No 'utability for use safely-incited switching OFF Yes service life maximum 20 a 'est wave-related switching OFF Yes 'est wave-related service life nacimum 20 a 'est wave-related service life nacessary Yes 'est yes coording to ISO 13849-1 a 'est yes coording to ISO 13849-1 a 'est yes according to ISO 13849-1 a 'est yes according to ISO 13849-1 a 'est yes according to ISO 13849-1 protection class IP on the front according to IEC 60829 'est yes 'est of weithed contact from the front 'est yes 'est certificates 'est yes 'est certificates 'est yes 'est certificates 'est yes 'est certificates 'est yes 'est certificate	product function						
 suitable for safely function Yes Suitable for safely function Suitable for for safely f	 mirror contact acc 	cording to IEC 60947-4-1		Yes			
subality for use safely readed switching OFF 293 service life maximum 293 service life life life life life life life lif	 positively driven of 	operation according to IEC	60947-5-1	No			
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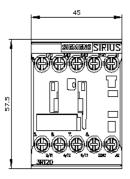
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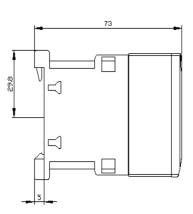
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-1AQ02&lang=en

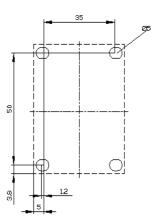
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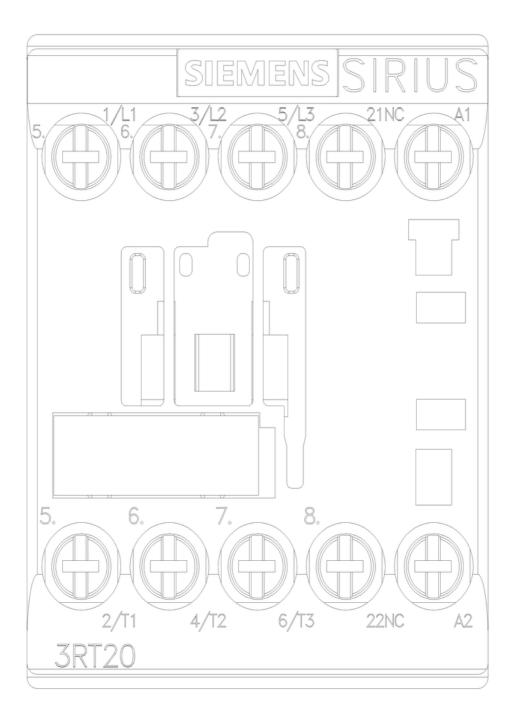
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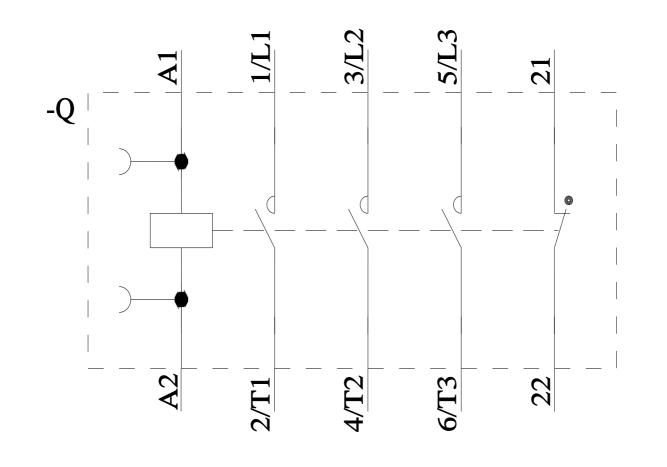
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