SIEMENS

Data sheet

3RT2016-1AK21



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 120 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 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	1.1 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	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 (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	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— 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 at AC 5a up to 690 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 	19.4 A 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	4.1.0
 at 400 V rated value at 690 V rated value 	4.1 A 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
— 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 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 2 surrant action in carias at DC 4	
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
	20 A 20 A
— at 110 V rated value	
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
at 1 current path at DC-3 at DC-5	20 A
— at 24 V rated value	20 A
— at 60 V rated value — at 110 V rated value	0.5 A
	0.15 A
with 2 current paths in series at DC-3 at DC-5 at 24 V reted value	20 A
— at 24 V rated value	5 A
— at 60 V rated value	
— at 110 V rated value	0.35 A
with 3 current paths in series at DC-3 at DC-5 at 24 V reted value	20 A
— at 24 V rated value	20 A 20 A
— at 60 V rated value	
— at 110 V rated value	20 A 1.5 A
— at 220 V rated value	1.5 A 0.2 A
— at 440 V rated value	
- at 600 V rated value	0.2 A
• at AC-2 at 400 V rated value	4 kW
• at AC-3	4 KVV
 at AC-3 — at 230 V rated value 	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 KW
— at 690 V rated value	5.5 kW
• at AC-3e	5.5 KVV
- at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 600 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	0.0 KW
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 kVA
 up to 400 V for current peak value n=20 rated value 	3.6 kVA
 up to 500 V for current peak value n=20 rated value 	4.6 kVA
 up to 690 V for current peak value n=20 rated value 	5.9 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1.3 kVA
 up to 400 V for current peak value n=30 rated value 	2.4 kVA
 up to 500 V for current peak value n=30 rated value 	3.1 kVA
 up to 690 V for current peak value n=30 rated value 	4 kVA
short-time withstand current in cold operating state up to 40 °C	
Imited to 1 s switching at zero current maximum	155 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	111 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	66 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	55 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	40.000 4/5
• at AC	10 000 1/h
operating frequency	1,000,1/b
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h 750 1/h
• at AC-3 maximum	750 1/h

	750.4%
• 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	120 V
• at 60 Hz rated value	120 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	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.8
• at 50 Hz	0.75
apparent holding power of magnet coil at AC	
apparent holding power of magnet con at AC • at 50 Hz	4.2 VA
• at 50 Hz	4.2 VA 3.3 VA
	0.0 YA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	0.05
• 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	
	10.4
 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 at 600 V rated value at 600 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
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 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 at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A
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at 110/120 V rated value	0.00 hz
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	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 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: 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)
 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 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 mm²
• stranded	0.5 4 mm ²
 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 4 mm
type of connectable conductor cross-sections	
for auxiliary contacts	
· IOI auxiliary contacts	

— solid or stra	nded		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 mm ²), 2x (0.75 2.5 mm ²)			
-	or auxiliary contacts	Ŭ	2x (20 16), 2x (18 14), 2x 12			
	d connectable conducto	or cross				
 for main contacts 			20 12			
 for auxiliary containing 	acts		20 12			
Safety related data						
product function						
 mirror contact acc 	cording to IEC 60947-4-1		Yes; with 3RH29			
 positively driven of 	operation according to IEC	C 60947-5-1	No			
 suitable for safety 	/ function		Yes			
suitability for use safety	-related switching OFF		Yes			
service life maximum		20 a				
test wear-related servi	ce life necessary		Yes			
proportion of dangero	us failures					
with low demand	rate according to SN 319	20	40 %			
	I rate according to SN 31		73 %			
-	emand rate according to		1 000 000			
	ow demand rate accord		100 FIT			
31920		3				
ISO 13849						
device type according	to ISO 13849-1		3			
overdimensioning acc	ording to ISO 13849-2 n	ecessary	Yes			
IEC 61508						
safety device type acc Electrical Safety	ording to IEC 61508-2		Туре А			
	the front according to I	EC 60529	IP20			
· ·	e front according to IEC		finger-safe, for vertical conta	ct from the front		
Approvals Certificates	-					
General Product Appr	oval					
	Confirmation		1 11 /			
					<u>KC</u>	
(\mathbf{u})		()	UK		<u>KC</u>	
<u></u>		CE EG.Konf	UK	(h)	<u>KC</u>	
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		CE EG-Konf.	CA	U	KC	
Connoral Product Ap		CE EG-Konf.		UL) UL	KC	
General Product Approval	EMV	EG-Konf.		UL UL Marine / Shipping	KC	
		EG-Konf.		UL UL Marine / Shipping	KC	
proval		Special Test Ce	vs	Marine / Shipping	KC	
proval			чп	Marine / Shipping	KC	
		Special Test Ce	vs	Marine / Shipping	KC	
proval		Special Test Ce	vs	Marine / Shipping		
proval		Special Test Ce	vs	Marine / Shipping		
proval		Special Test Ce	vs	Marine / Shipping		
proval		Special Test Ce	vs	Marine / Shipping	KC EURICAU VERITAS	
proval		Special Test Ce	vs	Marine / Shipping	BUREAU VERITAS	
proval		Special Test Ce	vs	Marine / Shipping		
proval	EMV ECM RCM	Special Test Ce	vs	Marine / Shipping	BUREAU VERITAS	
proval		Special Test Ce	vs	Marine / Shipping	BUREAU VERITAS	
proval ERE Marine / Shipping	EMV ECM RCM	Special Test Ce	vs	Marine / Shipping	BUREAU VERITAS	
proval EERE Marine / Shipping	EMV ECM RCM	Special Test Ce ate	vs	Marine / Shipping	BUREAU VERITAS	
proval ERE Marine / Shipping	EMV ECM RCM	Special Test Ce	vs	Marine / Shipping	BUREAU VERITAS	
proval EEEE Marine / Shipping	EMV	Special Test Ce ate	rtific- Type Test Certific- ates/Test Report	Marine / Shipping	BUREAU VERITAS	
proval EERE Marine / Shipping	EMV ECM RCM	Special Test Ce ate	vs	Marine / Shipping Output	BUREAU VERITAS	
proval EEEE Marine / Shipping	EMV EMV ECM CCM CCM CM CM CM CM CM CM CM	Special Test Ce ate	es rtific- Type Test Certific- ates/Test Report	Marine / Shipping Warine / Shipping <t< td=""><td>BUREAU VERITAS</td></t<>	BUREAU VERITAS	
proval EEEE Marine / Shipping	EMV EMV ECM CCM CCM CM CM CM CM CM CM CM	Special Test Ce ate	es rtific- Type Test Certific- ates/Test Report	Marine / Shipping Image: Constraint of the second	BUREAU VERITAS	
proval EEEE Marine / Shipping	EMV EMV ECM CCM CCM CM CM CM CM CM CM CM	Special Test Ce ate	es rtific- Type Test Certific- ates/Test Report	Marine / Shipping Image: Constraint of the second	BUREAU VERITAS	
proval EEEE Marine / Shipping	EMV EMV ECM CCM CCM CM CM CM CM CM CM CM	Special Test Ce ate	es rtific- Type Test Certific- ates/Test Report	Marine / Shipping Image: Constraint of the second	BUREAU VERITAS	
proval EEEE Marine / Shipping	EMV EMV ECM CCM CCM CM CM CM CM CM CM CM	Special Test Ce ate	es rtific- Type Test Certific- ates/Test Report	Marine / Shipping	BUREAU VERITAS	
proval EEEE Marine / Shipping EEEE Varine / Shipping	EMV CCM CCM CCM CCM CCM CCM CCM C	Special Test Ce ate	es rtific- Type Test Certific- ates/Test Report	Marine / Shipping	BUREAU VERITAS	

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t.industry.siemens.com/cs/ww/en/ps/3RT2016-1A https://supp

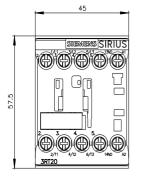
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1AK21&lang=en

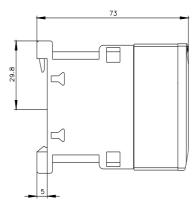
Characteristic: Tripping characteristics, I2t, Let-through current

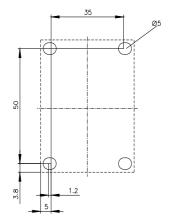
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1AK21/char

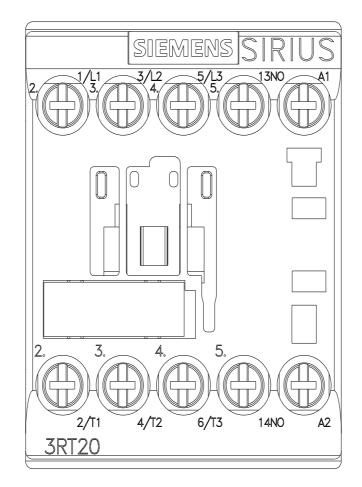
Further characteristics (e.g. electrical endurance, switching frequency)

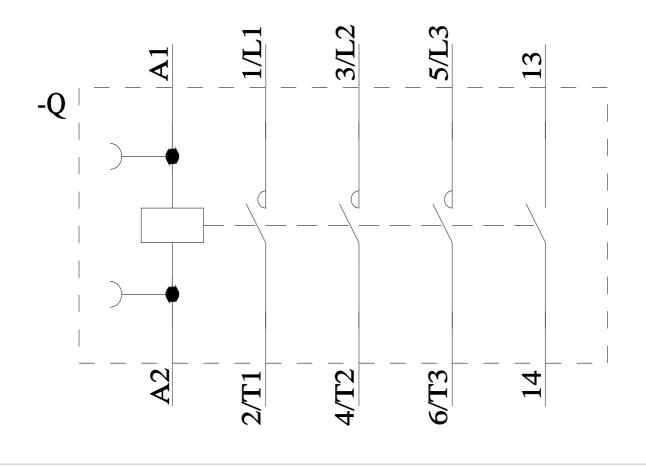
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