SIEMENS

Data sheet

3RT2016-4AG62



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 100 V AC, 50 Hz / 100-110 V, 60 Hz, auxiliary contacts: 1 NC, ring cable lug connection, 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 	1.2 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)			
Weight	0.217 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	22 A		
• at AC-1	60 A		
— up to 690 V at ambient temperature 40 °C rated value	22 A 20 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 — at 500 V rated value	9 A 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	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	20.4		
— at 24 V rated value — at 60 V rated value	20 A 20 A		
— at 100 V rated value — at 110 V rated value	20 A 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	12 A 1.6 A		
— at 220 V rated value — at 440 V rated value			

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			
— 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				
— at 24 V rated value	20 A			
— at 60 V rated value	0.5 A			
— at 110 V rated value	0.15 A			
with 2 current paths in series at DC-3 at DC-5	20 A			
— at 24 V rated value	20 A			
— at 60 V rated value	5 A			
— at 110 V rated value	0.35 A			
with 3 current paths in series at DC-3 at DC-5	20 A			
— at 24 V rated value	20 A			
— at 60 V rated value	20 A 20 A			
— at 110 V rated value	20 A 1.5 A			
— at 220 V rated value — at 440 V rated value	0.2 A			
— at 440 V rated value — at 600 V rated value	0.2 A 0.2 A			
	V.2 A			
• 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				
— 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			
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 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	4.011/4			
• 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 up to 690 V for current peak value n=30 rated value 	3.1 kVA 4 kVA			
short-time withstand current in cold operating state up to				
40 °C				
 limited to 1 s switching at zero current maximum 	155 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 10 s switching at zero current maximum 	86 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 60 s switching at zero current maximum 	55 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• 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			
 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	100 V			
at 60 Hz rated value	100 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	26.4 VA			
• at 60 Hz	31.7 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.81			
• at 60 Hz	0.81			
apparent holding power of magnet coil at AC				
• at 50 Hz	4.4 VA			
• at 60 Hz	4.8 VA			
inductive power factor with the holding power of the coil	0.04			
• at 50 Hz	0.24			
• at 60 Hz	0.25			
closing delay	0 25 mc			
• at AC	9 35 ms			
opening delay • at AC	4 15 ms			
	4 15 ms 10 15 ms			
arcing time control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous	1			
contact				
operational current at AC-12 maximum	10 A			
operational current at AC-15				
• at 230 V rated value	10 A			
at 230 V rated valueat 400 V rated value	10 A 3 A			
at 400 V rated valueat 500 V rated value				
 at 400 V rated value at 500 V rated value at 690 V rated value 	3 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 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			
 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			
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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 operational current at DC-13 at 24 V rated value at 48 V rated value at 48 V rated value at 24 V rated value at 48 V rated value at 24 V rated value at 20 V rated value at 60 V rated value at 110 V rated value at 20 V rated value at 48 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value 	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)			
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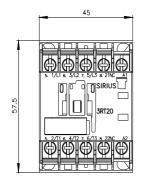
of 220 V/ refer turbus	1 hn			
— at 230 V rated value	1 hp			
• for 3-phase AC motor	0 hr			
- at 200/208 V rated value	2 hp			
— at 220/230 V rated value	3 hp			
— at 460/480 V rated value	5 hp			
- at 575/600 V rated value	7.5 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
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: 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	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 	Ring cable lug connection			
 for auxiliary and control circuit 	ring terminal lug connection			
 at contactor for auxiliary contacts 	Ring cable lug connection			
of magnet coil	Ring cable lug connection			
Safety related data				
product function				
 mirror contact according to IEC 60947-4-1 	Yes			
positively driven operation according to IEC 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 service life necessary	Yes			
proportion of dangerous failures				
• with low demand rate according to SN 31920	40 %			
• with high demand rate according to SN 31920	73 %			
B10 value with high demand rate according to SN 31920	1 000 000			
failure rate [FIT] with low demand rate according to SN	100 FIT			
31920				
ISO 13849				
device type according to ISO 13849-1	3			
overdimensioning according to ISO 13849-2 necessary	Yes			
IEC 61508				
safety device type according to IEC 61508-2	Туре А			

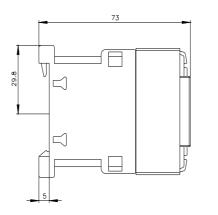
Electrical Safety							
protection class IP on t Approvals Certificates	he front according to I	EC 60529 IP00	_	_	_		
General Product Appro	oval						
<u>Confirmation</u>	UK CA		CE EG-Konf.		KC		
General Product Approval	EMV	Functional Saftey	Test Certificates		Marine / Shipping		
EHC	RCM	<u>Type Examination Cer-</u> tificate	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping					other		
BUREAU VERITAS		PRS	RINA	RARS RARS	<u>Miscellaneous</u>		
other		Railway	Environment				
<u>Confirmation</u>	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	EPD	Environmental Con- firmations			
Further information							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2016-4AG62 Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-4AG62 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-4AG62							
Image database (produ	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						

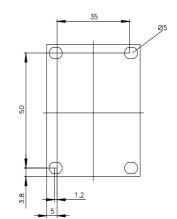
Image database (product images, 2D dimension drawings, 3D models, device circuit <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-4AG62&lang=en</u>

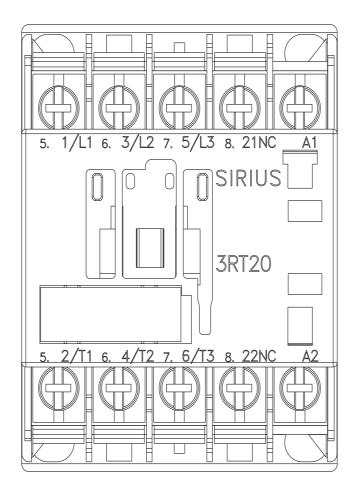
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-4AG62/char

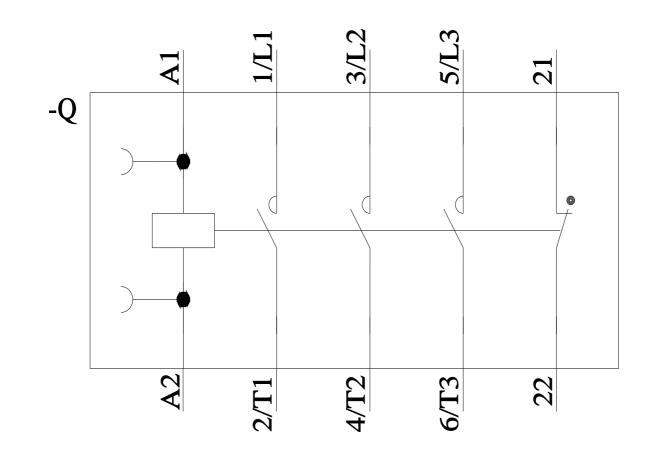
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-4AG62&objecttype=14&gridview=view1











last modified:

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