SIEMENS

Data sheet

3RT2016-1AP62



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00

product brand name SIRUS product designation Power contactor product type designation SRT2 Contractor S00 product extension No • turnction module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 0.9 W • 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 Insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 75 ms. 4.2g / 10 ms * shock resistance at rectangular impulse 10.5g / 5 ms. 6.6g / 10 ms		
product type designation 3RT2 Ceneral technical data	product brand name	SIRIUS
Concrait technical data S00 size of contactor S00 product extension No • auxiliary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • without load current share typical 1.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of contactor with added dectronically optimized auxiliary switch block typical 30 000 000 • of the contactor with added auxiliary switch block typical 30 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0 00 m	product designation	Power contactor
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• 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 400 V • 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 10 000 000 • 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 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 95 %	surge voltage resistance	
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• 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 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	mechanical service life (operating cycles)	
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Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 % Main circuit	reference code according to IEC 81346-2	Q
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• 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 % Main circuit	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 %	during storage	-55 +80 °C
Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	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	22 A
value	
• 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	20 A
value	
● 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	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	5.2.4
— 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 — up to 500 V for current peak value n=20 rated value 	5.3 A 5.3 A
— up to 500 V for current peak value n=20 rated value	5.5 A
• at AC-6a	54
 up to 230 V for current peak value n=30 rated value 	3.5 A
— up to 200 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	4 mm ²
value	
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
— 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 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 at 60 V rated value at 110 V rated value with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 60 V rated value at 110 V rated value 	20 A 0.5 A 0.15 A 20 A 5 A 0.35 A
 at 110 V rated value with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 60 V rated value 	0.15 A 20 A 5 A
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value	20 A 5 A
— at 24 V rated value — at 60 V rated value	5 A
— at 60 V rated value	5 A
at 110 V rated value	0.35 A
— at 110 V rated value	
 with 3 current paths in series at DC-3 at DC-5 	
— 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	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
at AC-2 at 400 V rated value	4 kW
• 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 600 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 600 V rated value	5.5 kW
	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	
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	
 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	
	AC
type of voltage of the control supply voltage	
 control supply voltage at AC at 50 Hz rated value 	220 V
at 60 Hz rated value	240 V
operating range factor control supply voltage rated value of magnet coil at AC	

• at 50 Hz 0.8 1.1 apparent pick-up power of magnet coil at AC 26.4 VA • at 50 Hz 26.4 VA Inductive power factor with closing power of the coil 0.81 • at 50 Hz 0.44 VA • at 60 Hz 0.81 • at 60 Hz 0.24 • at 60 V rated value 10 A <	
apparent pick-up power of magnet coil at AC • at 50 Hz 26.4 VA • at 50 Hz 26.4 VA inductive power factor with closing power of the coil 0.81 • at 50 Hz 0.81 apparent holding power of magnet coil at AC 0.81 • at 50 Hz 0.81 apparent holding power of magnet coil at AC 4.4 VA • at 60 Hz 4.4 VA inductive power factor with the holding power of the coil 0.24 • at 60 Hz 0.24 closing delay 0.24 • 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 1 number of NC contacts for auxiliary contacts instantaneous contact 1 coperational current at AC-12 maximum 10 A • at 400 V rated value 3 A • at 200 V rated value 2 A • at 600 V rated value 6 A • at 400 V rated value 6 A • at 400 V rated value 6 A •	
 at 50 Hz 26.4 VA at 60 Hz 26.4 VA inductive power factor with closing power of the coll at 60 Hz 0.81 at 60 Hz 0.81 at 60 Hz 0.24 at 60 Hz at AC at 60 Hz at AC at 60 Hz at AC at 60 V rated value at 60 Hz at 60 V rated value at 60 V rated value at 220 V rated value at 240 V rated value at 60 V rated value at 240 V rated value at 220 V rated value at 430 V rated val	
• at 60 Hz 26.4 VA inductive power factor with closing power of the coil	
inductive power factor with closing power of the coll	
• at 50 Hz 0.81 • at 60 Hz 0.81 • at 60 Hz 0.81 • at 60 Hz 4.4 VA • at 50 Hz 4.4 VA • at 60 Hz 4.4 VA Inductive power factor with the holding power of the coil 4.4 VA inductive power factor with the holding power of the coil 0.24 • at 60 Hz 0.24 • at 60 Hz 0.24 • at AC 9 35 ms opening delay 4 15 ms • at AC 4 15 ms arcing time 10 15 ms control version of the switch operating mechanism 1 operational current at AC-12 maximum 10 A operational current at AC-15 - • at 200 V rated value 10 A • at 400 V rated value 3 A • at 600 V rated value 10 A • at 600 V rated value 6 A • at 400 V rated value 10 A • at 400 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 2 A •	
• at 60 Hz 0.81 apparent holding power of magnet coil at AC 4.4 VA • at 60 Hz 4.4 VA • at 60 Hz 4.4 VA • at 60 Hz 0.24 • 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 Atuiliary circuit 10 A operational current at AC-12 maximum 10 A operational current at AC-15 - • at 200 V rated value 3 A • at 500 V rated value 1 A operational current at DC-12 - • at 200 V rated value 6 A • at 600 V rated value 6 A • at 600 V rated value 6 A • at 100 V rated value 6 A • at 400 V rated value 6 A • at 600 V rated value 2 A	
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• at 110 V rated value 1 A	
• at 125 V rated value 0.9 A	
• at 220 V rated value 0.3 A	
at 600 V rated value 0.1 A	
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V,	1 mA)
JL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value 7.6 A	
• at 600 V rated value 9 A	
yielded mechanical performance [hp]	
for single-phase AC motor	
- 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 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			
 side-by-side mounting 	Yes			
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			
— at the side — downwards	0 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 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)			
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm²			
stranded	0.5 4 mm²			
 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 2.5 mm ²			
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 mm ²), 2x (0.75 2.5 mm ²)			
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12			
AWG number as coded connectable conductor cross section				
for main contacts	20 12			
for auxiliary contacts	20 12			
Safety related data	20 12			
product function	Vac			
mirror contact according to IEC 60947-4-1	Yes			
	Yes			
suitability for use safety-related switching OFF				
suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920 proportion of dangerous failures	1 000 000			

failure rate [FIT] with low d T1 value for proof test inte 61508 protection class IP on th touch protection on the f Certificates/ approvals	erval or service life accorner front according to IE front according to IEC	ro SN 31920 rding to IEC EC 60529	73 % 100 FIT 20 a IP20 finger-safe, for vertical contact	from the front							
failure rate [FIT] with low d T1 value for proof test inte 61508 protection class IP on th touch protection on the f Certificates/ approvals	demand rate according t erval or service life accord ne front according to IE front according to IEC	ro SN 31920 rding to IEC EC 60529	20 a IP20	from the front							
61508 protection class IP on the touch protection on the f Certificates/ approvals	ne front according to IE front according to IEC	EC 60529	IP20	from the front							
touch protection on the t Certificates/ approvals	front according to IEC			from the front							
touch protection on the t Certificates/ approvals	front according to IEC		finger-safe, for vertical contact	from the front							
	val										
General Product Approv	val			ertificates/ approvals							
				General Product Approval							
(SP) CAL	CCC	<u>Confirmatio</u>		KC	EHC						
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	Test Certificates							
	<u>ype Examination Cer-</u> tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report						
Marine / Shipping											
ABS	BUREAU VERITAS		Lloyd's Register urs	PRS	RINA						
Marine / Shipping	other			Railway	Environment						
RMRS	<u>Confirmation</u>	DE	Confirmation	Vibration and Shock	Environmental Con- firmations						
Further information Siemens has decided to											

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2016-1AP62

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-1AP62

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1AP62

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

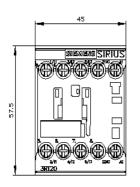
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1AP62&lang=en

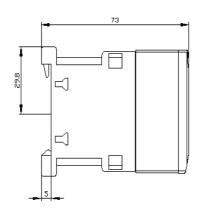
Characteristic: Tripping characteristics, I2t, Let-through current

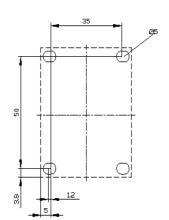
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1AP62/char

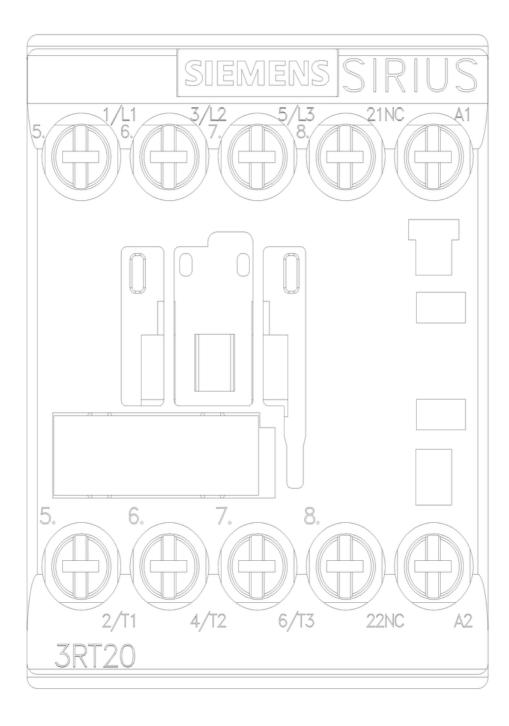
Further characteristics (e.g. electrical endurance, switching frequency)

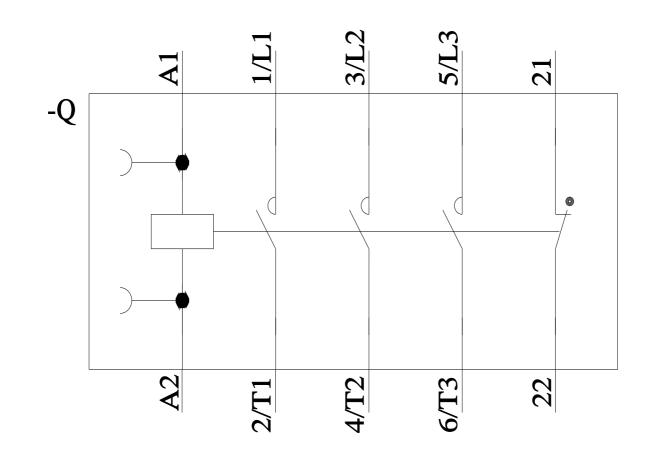
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-1AP62&objecttype=14&gridview=view1











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