SIEMENS

Data sheet

3RT2035-1AP04



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

muching brand memo	SIRIUS
product brand name	Power contactor
product designation	
product type designation	3RT2
General technical data	20
size of contactor	S2
product extension	
function module for communication	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.6 W
 at AC in hot operating state per pole 	2.2 W
without load current share typical	6 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	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 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)	10/01/2014
Weight	1.065 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	236 kg
Global Warming Potential [CO2 eq] during manufacturing	4.11 kg
Global Warming Potential [CO2 eq] during operation	233 kg
Global Warming Potential [CO2 eq] after end of life	-0.635 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	60 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	60 A
— up to 690 V at ambient temperature 60 °C rated value	55 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
 — at 690 V rated value • at AC-3e 	24 A
• at AC-3e — at 400 V rated value	41 A
— at 500 V rated value	41 A 41 A
— at 690 V rated value	24 A
 at 690 v rated value at AC-4 at 400 V rated value 	35 A
• at AC-5a up to 690 V rated value	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	24.2 A
 up to 400 V for current peak value n=30 rated value 	24.2 A
— up to 500 V for current peak value n=30 rated value	24.2 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	22 A
• at 690 V rated value	18.5 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	55 A
- at 24 V rated value	55 A
- at 60 V rated value	45 A
- at 110 V rated value	45 A
- at 220 V rated value	5 A
- at 440 V rated value	1A
— at 600 V rated value	0.8 A

 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	0.0077
- at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 100 V rated value	25 A
- at 220 V rated value	5 A 0.27 A
- at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
 at AC-2 at 400 V rated value 	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	14.5 kVA
• up to 400 V for current peak value n=20 rated value	25.2 kVA
• up to 500 V for current peak value n=20 rated value	31.6 kVA
 up to 690 V for current peak value n=20 rated value 	28.6 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	9.6 kVA
 up to 400 V for current peak value n=30 rated value 	16.8 kVA
 up to 500 V for current peak value n=30 rated value 	21 kVA
 up to 690 V for current peak value n=30 rated value 	28.6 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value
-	
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	400 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	241 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	

• # AC BU00 1/h • et AC-1 maximum 1 200 1/h • et AC-3 maximum 1 200 1/h • et AC-3 maximum 1 000 1/h • et AC-3 maximum 1 000 1/h • et AC-3 maximum 1 000 1/h • et AC-4 maximum 3 00 1/h • et AC-4 maximum 20 1/h • et AC-4 0 = 11 • et AC-4 0 = 11 • et AC-4 0 = 01		5 000 4/
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• 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) UL/CSA ratings 1 full-load current (FLA) for 3-phase AC motor 40 A		
• at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 1 full-load current (FLA) for 3-phase AC motor 40 A		
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 40 A		
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 40 A		
full-load current (FLA) for 3-phase AC motor 40 A		1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value 40 A		
	full-load current (FLA) for 3-phase AC motor	
at 600 V rated value 41 A	• at 480 V rated value	
	• at 600 V rated value	41 A
yielded mechanical performance [hp]	yielded mechanical performance [hp]	

a for single phase AC mater	
for single-phase AC motor at 410/420 V retact value	2 hz
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
for 3-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
 — with type of assignment 2 required a for abort circuit protoction of the quiviliant quitab required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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	114 mm
width	55 mm
depth	174 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
	6 11111
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 or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
for AWG cables for main contacts	2x (18 2), 1x (18 1)
connectable conductor cross-section for main contacts	
 finely stranded with core end processing 	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm ²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
-	

AWG number as coded connectable conductor of	cross				
 for main contacts 		18 1			
for auxiliary contacts		20 14			
Safety related data		20 14			
product function	_				
mirror contact according to IEC 60947-4-1		Yes			
 positively driven operation according to IEC 60047 4 1 		No			
suitable for safety function		No 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	0	73 %			
B10 value with high demand rate according to S	N 31920	1 000 000			
failure rate [FIT] with low demand rate according 31920	g to SN	100 FIT			
ISO 13849					
device type according to ISO 13849-1	:	3			
overdimensioning according to ISO 13849-2 nec		Yes			
IEC 61508					
safety device type according to IEC 61508-2		Туре А			
Electrical Safety					
protection class IP on the front according to IEC	60529	IP20			
touch protection on the front according to IEC 6	60529	finger-safe, for vertical contact	from the front		
Approvals Certificates					
General Product Approval					
((() ()		<u>Confirmation</u>	ሠ	<u>KC</u>	
General Product Ap-	UK CA Test Certificates	Commation	UL Marine / Shipping	_	
General Product An-	UK CA Test Certificates	Commation	Marine / Shipping		
General Product Ap-		c- Special Test Certific-	Marine / Shipping	B U REAU VERITAS	
General Product Approval EMV	Test Certificates	c- Special Test Certific-	Marine / Shipping	BUREAU VERITAS	
General Product Ap- proval	Test Certificates	c- Special Test Certific-	ABS	Confirmation	
General Product Approval EMV	Test Certificates	c- Special Test Certific-	ABS	B U REAU VERITAS	
General Product Approval EMV Image: Construction of the second	Test Certificates Type Test Certific ates/Test Repor	c- Special Test Certific-	ABS	B U REAU VERITAS	
General Product Approval EMV Emv Marine / Shipping Image: Diversion of the product of t	Test Certificates	c- Special Test Certific-	ABS	BUREAU VERITAS	
General Product Approval EMV Image: Construction of the second	Test Certificates Type Test Certific ates/Test Repor	c- Special Test Certific-	ABS	B U REAU VERITAS	
General Product Approval EMV · EERE EERV · Marine / Shipping · · Discourse · · Railway Dangerous goods I Special Test Certification ation Transport Information I	Test Certificates Type Test Certific ates/Test Repor	c- t Special Test Certific- ate i i	ABS	BUREAU VERITAS	
General Product Approval EMV · EERE EERV · Marine / Shipping · · Marine / Shipping · · EERE · · Special Test Certification ate · · Special Test Certification · · Automation · ·	Test Certificates Type Test Certific ates/Test Repor	c- t Special Test Certific- ate i i	ABS	BUREAU VERITAS	
General Product Approval EMV Emet Emet Marine / Shipping Emet Marine / Shipping Emet Emet Emet Special Test Certification Transport Information Special Test Certification Transport Information Information on the packaging Information and Downloadcenter (Catalogs, Brocenter)	Test Certificates Type Test Certific ates/Test Repor	c- t Special Test Certific- ate i i	ABS	B U REAU VERITAS	
General Product Approval EMV EMV EMV Marine / Shipping ECM Marine / Shipping ECM Marine / Shipping ECM Special Test Certification attended Transport Information attended Further information Transport Information attended Further information Information on the packaging https://support.industry.siemens.com/cs/ww/en/view	Test Certificates Type Test Certific ates/Test Repor	c- t Special Test Certific- ate i i	ABS	B U REAU VERITAS	

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1AP04 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AP04

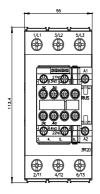
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AP04

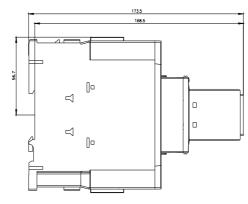
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1AP04&lang=en

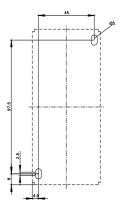
Characteristic: Tripping characteristics, I2t, Let-through current

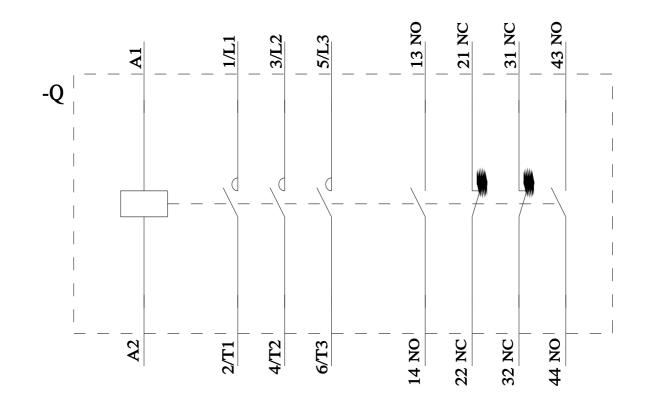
https://support.industry.siemens.com/cs/ww/en/ps/3RT20 P04/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1AP04&objecttype=14&gridview=view1









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