SIEMENS

Data sheet

3RT2035-1AC20



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 1 NO + 1 NC, 24 V AC, 50 / 60 Hz, 3-pole, screw terminal

product brand name SIRIUS product designation SRT2 Central technical data size of contactor size of contactor S2 product stype designation No • auxiliary switch Yes • out also in hot operating state er pole 5.2 W • at AC in hot operating state per pole 2.2 W • without load current share typical 17.2 W insultary circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 64 KV • of main circuit with degree of pollution 3 rated value 64 KV • of main circuit with degree of pollution between coll and main contacts according to EN 6097-1 400 V • of main circuit with degree of pollution between coll and main contacts according to EN 6097-1 400 V • of auxiliary circuit rated value 6 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added	N/2 6/15																																																																												
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during storage2 000 m• during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	11.8g / 5 ms, 7.4g / 10 ms	mechanical service life (operating cycles)Infigure this predict• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions10/01/2014installation altitude at height above sea level maximum ambient temperature2 000 m• during operation • during storage-25 +60 °C -55 +80 °Crelative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	shock resistance with sine pulse		 of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch 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maximum																																																																													
Main circuit		95 %																																																																											
	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 			
operational current			
 at AC-1 at 400 V at ambient temperature 40 °C 	60 A		
rated value			
• 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	55 A		
rated value	33 A		
• at AC-3			
— at 400 V rated value	41 A		
— at 500 V rated value	41 A		
— at 690 V rated value	24 A		
• at AC-3e			
— at 400 V rated value	41 A		
— at 500 V rated value	41 A		
— at 690 V rated value	24 A		
 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 	36.5 A		
value			
 — 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	36.5 A		
value			
 — 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	24.2 A		
value			
 — 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	24.2 A		
value			
 — up to 690 V for current peak value n=30 rated value 	24 A		
minimum cross-section in main circuit at maximum AC-1	16 mm²		
rated value			
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 110 V rated value	4.5 A		
— at 220 V rated value	1 A		
— 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 			
— at 24 V rated value	55 A		
— at 110 V rated value	45 A		
— at 220 V rated value	5 A		
— at 440 V rated value	1 A		
— 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 110 V rated value	55 A 45 A		
— at 220 V rated value — at 440 V rated value	45 A 2.9 A		
- al 440 V Taleu Value	2.9 A		

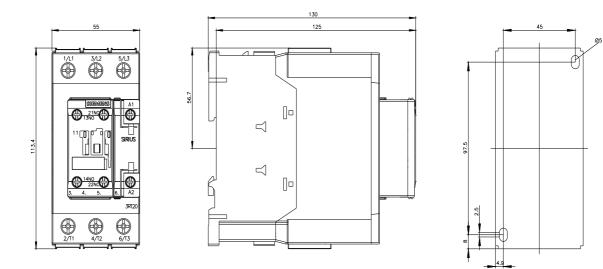
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 220 V rated value — at 440 V rated value	1 A 0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	0.00 A
- at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 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 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	942 A: Lice minimum process spectron ages to AC 1 roted value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value
 Imited to 5 s switching at zero current maximum Iimited to 10 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10's switching at zero current maximum limited to 30's switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum 	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V

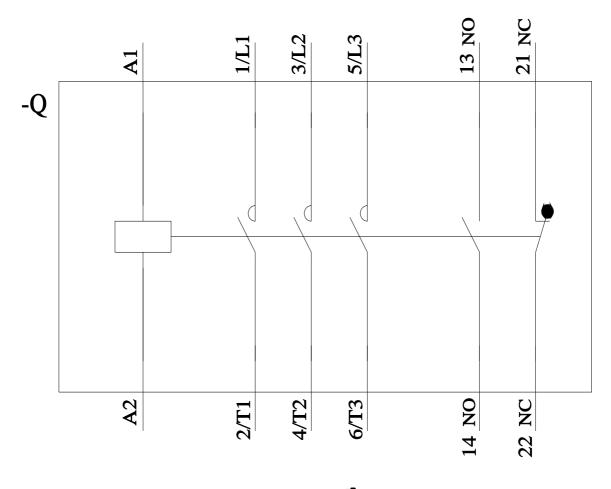
operating range factor control supply voltage rated				
value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.85 1.1			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	210 VA			
• at 60 Hz	188 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.69			
● at 60 Hz	0.65			
apparent holding power of magnet coil at AC				
• at 50 Hz	17.2 VA			
• at 60 Hz	16.5 VA			
inductive power factor with the holding power of the				
coil				
• at 50 Hz	0.36			
• at 60 Hz	0.39			
closing delay	40 00			
• at AC opening delay	10 80 ms			
• at AC	10 18 ms			
	10 20 ms			
arcing time control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit	Standard AT - AZ			
	1			
number of NC contacts for auxiliary contacts instantaneous contact	I			
number of NO contacts for auxiliary contacts	1			
instantaneous contact				
operational current at AC-12 maximum	10 A			
operational current at AC-15				
 at 230 V rated value 	10 A			
 at 400 V rated value 	3 A			
 at 500 V rated value 	2 A			
• at 690 V rated value	1 A			
operational current at DC-12				
at 24 V rated value	10 A			
at 48 V rated value	6 A			
• at 60 V rated value	6 A			
 at 110 V rated value at 125 V rated value 	3 A 2 A			
at 125 v rated value	1A			
at 600 V rated value	0.15 A			
operational current at DC-13	0.1077			
at 24 V rated value	10 A			
at 48 V rated value	2 A			
at 60 V rated value	2 A			
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)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	40 A			
• at 600 V rated value	41 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	3 hp			
— at 230 V rated value	7.5 hp			
for 3-phase AC motor	10 hz			
— 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 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	qG: 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 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)
required	
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	114 mm
width	55 mm
depth	130 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 type of connectable conductor cross-sections 	Screw-type terminals
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)
at 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	0.5 0.5 mm²
 solid or stranded finally stranded with core and processing 	0.5 2.5 mm ² 0.5 2.5 mm ²
 finely stranded with core end processing type of connectable conductor cross-sections 	0.0 2.0 11111
for auxiliary contacts	
 Ior 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)
 at AWG cables for auxiliary contacts 	2x (0.5 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	
section	
for main contacts	18 1
 for auxiliary contacts 	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes

	n operation according t	o IEC 60947-	No			
5-1 B10 value with high d	lemand rate according	to SN 31920	1 000 000			
proportion of dange						
	nd rate according to SN		40 %			
-	nd rate according to SI low demand rate accor		73 % 100 FIT			
31920		-				
IEC 61508	t interval or service life		20 y			
protection class IP o 60529	on the front according	g to IEC	IP20			
touch protection on suitability for use	the front according t	o IEC 60529	finger-safe, for vertical con	tact from the front		
 safety-related s 	witching OFF		Yes			
Certificates/ approval	s					
General Product Ap	oproval				EMC	
			140		•	
		<u>Confirmation</u>	ı <u>KC</u>	EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Con	formity	Test Certificates		Marine / Shipping	
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certificate</u> ate	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	KMRS	
other		Railway	Dangerous Good			
Confirmation	<u>Confirmation</u>	Vibration and St	nock <u>Transport Informa-</u> tion			
F						
Further information	wnloadcenter (Catalo	as Brochures)			
https://www.siemens.		.99, Divendies,	1			
Industry Mall (Onlin	e ordering system)	Cotolog/art des 12				
	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1AC20 Cax online generator					
http://support.automa	tion.siemens.com/WW		aspx?lang=en&mlfb=3RT2	<u>035-1AC20</u>		
	lanuals, Certificates,					
Image database (pro		ension drawings,	3D models, device circui		cros,)	
			=3RT2035-1AC20⟨=en	L		
	ping characteristics, I ry.siemens.com/cs/ww/					
Further characterist	ics (e.g. electrical en	durance, switchin		<u>20&objecttype</u> =14&aric	view=view1	

12/2/2022





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11/21/2022 🖸