SIEMENS

Data sheet

3RT2035-1AB04



power contactor, AC-3 40 A, 18.5 kW / 400 V 2 NO + 2 NC, 24 V AC 50 Hz, 3-pole, Size S2, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
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
• per pole	2.2 W
power loss [W] for rated value of the current without load current share typical	16 W
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
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
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

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	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	00.27
 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	24.2.4
— 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 24.2 A
— up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated	24.2 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²
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
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
operational current	
 at 1 current path at DC-3 at DC-5 	

t AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	AC
Control circuit/ Control	
a at AC 4 maximum	300 1/h
• at AC-3 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
● at AC-1 maximum	1 200 1/h
operating frequency	
• at AC	5 000 1/h
no-load switching frequency	
 limited to 60 s switching at zero current maximum 	196 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value
short-time withstand current in cold operating state up to 40 °C	
• up to 690 V for current peak value n=30 rated value	28.6 kV·A
• up to 500 V for current peak value n=30 rated value	21 kV·A
• up to 400 V for current peak value n=30 rated value	16.8 kV·A
 up to 230 V for current peak value n=30 rated value 	9.6 kV·A
operating apparent power at AC-6a	
• up to 690 V for current peak value n=20 rated value	28.6 kV·A
• up to 500 V for current peak value n=20 rated value	31.6 kV·A
 up to 400 V for current peak value n=20 rated value 	25.2 kV·A
• up to 230 V for current peak value n=20 rated value	14.5 kV·A
operating apparent power at AC-6a	
• at 690 V rated value	16.8 kW
at 400 V rated value	11.6 kW
operating power for approx. 200000 operating cycles at AC-4	
— at 690 V rated value	22 kW
— at 500 V rated value	22 kW 22 kW
— at 400 V rated value	18.5 kW
— at 230 V rated value	11 kW
• at AC-3	
• at AC-2 at 400 V rated value	18.5 kW
operating power	
— at 600 V rated value	0.35 A
— at 440 V rated value	0.6 A
— at 220 V rated value	25 A
— at 110 V rated value	55 A
— at 24 V rated value	55 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 600 V rated value	0.16 A
— at 440 V rated value	0.27 A
— at 220 V rated value	5 A
— at 110 V rated value	25 A
with 2 current paths in series at DC-3 at DC-3 — at 24 V rated value	55 A
 — at 600 V rated value with 2 current paths in series at DC-3 at DC-5 	0.06 A
— at 440 V rated value	0.1 A
— at 220 V rated value	1 A
— at 110 V rated value	2.5 A

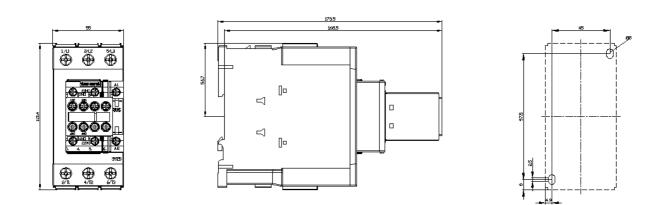
	100.1/ A
• at 50 Hz	190 V·A
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.72
apparent holding power of magnet coil at AC • at 50 Hz	16 V·A
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	1 A
 at 600 V rated value 	0.15 A
operational current at DC-13	
 at 24 V rated value 	6 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 	
— 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 	
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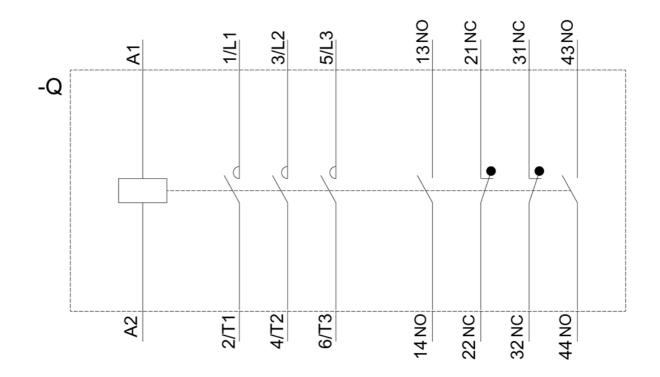
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)			
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 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	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
side-by-side mounting	Yes			
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			
Connections/ Terminals				
type of electrical connection				
	screw-type terminals			
tor main current circuit				
 for main current circuit for auxiliary and control circuit 				
 for auxiliary and control circuit 	screw-type terminals			
for auxiliary and control circuitat contactor for auxiliary contacts	screw-type terminals Screw-type terminals			
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	screw-type terminals			
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections 	screw-type terminals Screw-type terminals			
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts 	screw-type terminals Screw-type terminals Screw-type terminals			
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts – solid or stranded 	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²)			
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts – solid or stranded – finely stranded with core end processing 	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²) 2x (1 25 mm ²), 1x (1 35 mm ²)			
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts – solid or stranded 	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 35 mm ²), 1x (1 50 mm ²)			
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proportion of dange						
 with low deman 	id rate acc. to SN 3192					
 with high dema 	nd rate acc. to SN 3192	20 73 9	73 %			
failure rate [FIT] with	low demand rate acc. t	o SN 31920 100	100 FIT			
product function posit 60947-5-1	ively driven operation a	acc. to IEC No				
T1 value for proof te IEC 61508	est interval or service	life acc. to 20 y	/			
protection class IP of	on the front acc. to IE	C 60529 IP2	IP20			
touch protection on	the front acc. to IEC	60529 fing	er-safe, for vertical cont	act from the front		
suitability for use						
 safety-related s 	witching OFF	Yes	6			
ertificates/ approval	-					
General Product Ap					EMC	
SEA.			<u>KC</u>	EAC	RCM	
Functional Safety/Safety of Machinery	Declaration of Con	formity	Test Certificates		Marine / Shipping	
Type Examination Certificate	CE EG-Konf.	UK Declaration of Conformity	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping						
BUREAU VERITAS	Lloyd's Register uts	PRS	RINA	RMRS RMRS	DNV-GL EMISLCORE	
other						
Confirmation	<u>Confirmation</u>					
urther information Information- and Do	wnloadcenter (Catalo com/ic10	gs, Brochures,)				
Industry Mall (Online https://mall.industry.s Cax online generato	e ordering system) iemens.com/mall/en/er or					
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AB04 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AB04						
Image database (pro	oduct images, 2D dim	ension drawings, 3D	-	diagrams, EPLAN mad	cros,)	

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AB04/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1AB04&objecttype=14&gridview=view1





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