SIEMENS

Data sheet

3RT2035-1CL24-3MA0



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, captive auxiliary switch

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
 at AC in hot operating state per pole 	2.2 W
 without load current share typical 	6.5 W
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
SVHC substance name	Blei - 7439-92-1
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 %
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	60 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	60 A
value	
— 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-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 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	16 mm ²
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 60 V rated value	23 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 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	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 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

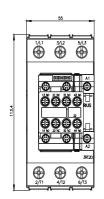
• at 1 current path at DC-3 at DC-5				
— at 24 V rated value	35 A			
— at 60 V rated value	6 A			
— at 220 V rated value	1A			
— at 440 V rated value	0.1 A			
— at 600 V rated value	0.06 A			
• with 2 current paths in series at DC-3 at DC-5				
— at 24 V rated value	55 A			
— at 60 V rated value	45 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 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 400 V rated value at 690 V rated value	16.8 kW			
operating apparent power at AC-6a	10.0 KVV			
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 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 				
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a 	31.6 kVA 28.6 kVA			
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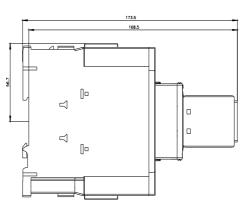
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
at 50 Hz rated value	230 V			
at 60 Hz rated value	230 V			
operating range factor control supply voltage rated value of				
magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.85 1.1			
design of the surge suppressor	with varistor			
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	17.01/4			
• at 50 Hz	17.2 VA			
• at 60 Hz	16.5 VA			
inductive power factor with the holding power of the coil	0.20			
• at 50 Hz	0.36			
• at 60 Hz	0.39			
closing delay	10 90 mg			
• at AC	10 80 ms			
opening delay	10 19 mg			
e at AC arcing time	10 18 ms 10 20 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous	2			
contacts	-			
number of NO contacts for auxiliary contacts instantaneous	2			
contact operational current at AC-12 maximum	10 A			
operational current at AC-15				
at 230 V rated value	6 A			
at 200 V rated value	3 A			
at 500 V rated value	2 A			
at 690 V rated value	1A			
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]				

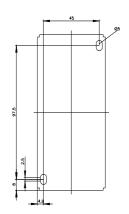
for single-phase AC motor				
— at 110/120 V rated value	3 hp			
— at 230 V rated value	7.5 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	10 hp			
— at 220/230 V rated value	15 hp			
— at 460/480 V rated value	30 hp			
— at 575/600 V rated value	40 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
— 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 for short-circuit protection of the auxiliary switch required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions	go. 10 A (500 V, 11A)			
	1/ 100° ratation peopible on vortical mounting surfaces can be tilted forward and			
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	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	0 mm			
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)			
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 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)			
 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 cross				
section				

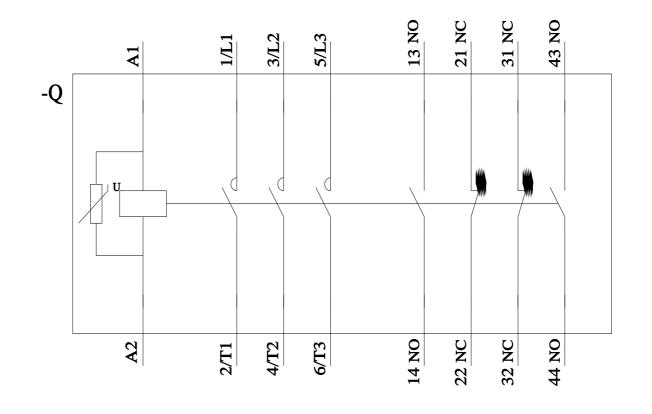
 for main contact 	s		18 1			
 for auxiliary con 	tacts		20 14			
Safety related data						
product function						
 mirror contact a 	ccording to IEC 60947-4-1		Yes			
	-	60947-5-1	No			
	positively driven operation according to IEC 60947-5-1					
suitability for use safety-related switching OFF		Yes				
	B10 value with high demand rate according to SN 31920		1 000 000			
proportion of danger						
	d rate according to SN 3192		40 %			
 with high demand rate according to SN 31920 		73 %				
failure rate [FIT] with lo	failure rate [FIT] with low demand rate according to SN 31920		100 FIT			
T1 value for proof test interval or service life according to IEC		20 a				
61508						
-	n the front according to IE		IP20			
touch protection on t	the front according to IEC	60529	finger-safe, for vertical cont	tact from the front		
Certificates/ approvals						
General Product App	proval					
SP C		<u>Confirmatio</u>		KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	Test Certificates		
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	
Marine / Shipping						
ABS	BUREAU VERITAS		Llovd's Register us	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good		
RMRS	<u>Confirmation</u>	<u>Confirmatio</u>	n <u>Vibration and Shoc</u>	<u>X Transport Information</u>		
Further information						
https://press.siemens.c Siemens is working of Please contact your lo EAC relevant market (Information on the pa https://support.industry	other than the sanctioned E ackaging /.siemens.com/cs/ww/en/vie	/siemens-wind-dc ent EAC certifica tatus of validity of AEU member sta ew/109813875	ates. the EAC certification if you in	itend to import or offer to supp	bly these products to an	
https://www.siemens.c Industry Mall (Online https://mall.industry.sie Cax online generator	ordering system) emens.com/mall/en/en/Cata	log/product?mlfb				
http://support.automati Service&Support (Ma https://support.industry Image database (proc	on.siemens.com/WW/CAX anuals, Certificates, Chara siemens.com/cs/ww/en/ps duct images, 2D dimensio	acteristics, FAQs /3RT2035-1CL24 on drawings, 3D		rams, EPLAN macros,)		
<u>mp.mwww.automation</u>	.siemens.com/bildub/cax_u					
3RT20351CL243MA Page 6/8	AO		8/17/2023		hange without notice	

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1CL24-3MA0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1CL24-3MA0&objecttype=14&gridview=view1









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