SIEMENS

Data sheet

3RT2026-2BF40



power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, 110 V DC 3-pole, Size S0 Spring-type terminal

and ust brand name	
product brand name	SIRIUS Bauar contenter
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
product extension	
function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	4.8 W
 at AC in hot operating state per pole 	1.6 W
without load current share typical	5.9 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 safe isolation betweencoil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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 value 	40 A
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
 at AC-5a up to 690 V rated value 	35.2 A
• at AC-5b up to 400 V rated value	20.7 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	20.2 A
 up to 400 V for current peak value n=20 rated value 	20.2 A
 — up to 500 V for current peak value n=20 rated value 	20.2 A
 up to 690 V for current peak value n=20 rated value 	12.9 A
 at AC-6a up to 230 V for current peak value n=30 rated value 	13.5 A
— up to 400 V for current peak value n=30 rated value	13.5 A
 — up to 500 V for current peak value n=30 rated value 	13.5 A
up to 690 V for current peak value n=30 rated value	13 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	10 mm ²
cycles at AC-4	
at 400 V rated value	9 A
• at 690 V rated value	9 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 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 	
- at 24 V rated value	35 A
— at 110 V rated value	35 A 35 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	35 A				
— at 110 V rated value	35 A				
— at 220 V rated value	35 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	20 A				
— at 110 V rated value	2.5 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.09 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	35 A				
— at 110 V rated value	15 A				
— at 220 V rated value	3 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	35 A				
— at 110 V rated value	35 A				
— at 220 V rated value	10 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.6 A				
operating power					
• at AC-3					
— at 230 V rated value	5.5 kW				
— at 400 V rated value	11 kW				
— at 500 V rated value	11 kW				
— at 690 V rated value	11 kW				
● at AC-3e					
— at 230 V rated value	5.5 kW				
— at 400 V rated value	11 kW				
— at 500 V rated value	11 kW				
— at 690 V rated value	11 kW				
operating power for approx. 200000 operating cycles at AC-4					
• at 400 V rated value	4.4 kW				
• at 690 V rated value	7.7 kW				
operating apparent power at AC-6a					
• up to 230 V for current peak value n=20 rated value	8 kVA				
 up to 400 V for current peak value n=20 rated value 	13.9 kVA				
• up to 500 V for current peak value n=20 rated value	17.4 kVA				
• up to 690 V for current peak value n=20 rated value	15.4 kVA				
operating apparent power at AC-6a					
• up to 230 V for current peak value n=30 rated value	5.3 kVA				
• up to 400 V for current peak value n=30 rated value	9.3 kVA				
• up to 500 V for current peak value n=30 rated value	11.6 kVA				
• up to 690 V for current peak value n=30 rated value	15.5 kVA				
short-time withstand current in cold operating state up to 40 °C					
• limited to 1 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	299 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 10 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	106 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at DC	1 500 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-3 maximum	250 1/h			
Control circuit/ Control				
	DC			
type of voltage of the control supply voltage control supply voltage at DC	DC			
rated value	110 V			
operating range factor control supply voltage rated value of magnet coil at DC				
• initial value	0.8			
full-scale value	1.1			
closing power of magnet coil at DC	5.9 W			
holding power of magnet coil at DC	5.9 W			
closing delay				
• at DC	50 170 ms			
opening delay				
• at DC	15 17.5 ms			
arcing time	10 10 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	1			
instantaneous contact	4			
number of NO contacts for auxiliary contacts instantaneous contact	1			
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 	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 	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	21 A			
at 600 V rated value	22 A			
yielded mechanical performance [hp]				
for single-phase AC motor	2.64			
- at 110/120 V rated value	2 hp			
— at 230 V rated value	3 hp			
for 3-phase AC motor at 200/208 V rated value	5 hp			
- at 200/208 V rated value	5 hp			
- at 220/230 V rated value	7.5 hp			
— at 460/480 V rated value — at 575/600 V rated value	15 hp			
	20 hp A600 / P600			
contact rating of auxiliary contacts according to UL				

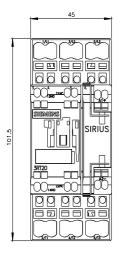
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)			
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (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	102 mm			
width	45 mm			
depth	107 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	spring-loaded terminals			
 for auxiliary and control circuit 	spring-loaded terminals			
 at contactor for auxiliary contacts 	Spring-type terminals			
 of magnet coil 	Spring-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (1 10 mm²)			
— solid or stranded	2x (1 10 mm ²)			
 finely stranded with core end processing 	2x (1 6 mm ²)			
— finely stranded without core end processing	2x (1 6 mm ²)			
at AWG cables for main contacts	2x (18 8)			
connectable conductor cross-section for main contacts				
• solid	1 10 mm²			
• stranded	1 10 mm²			
 finely stranded with core end processing 	1 6 mm²			
 finely stranded without core end processing 	1 6 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 2.5 mm²			
 finely stranded with core end processing 	0.5 1.5 mm²			
 finely stranded without core end processing 	0.5 2.5 mm ²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded	2x (0.5 2.5 mm²)			

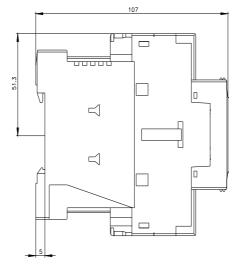
— finely strar	nded with core end proc nded without core end p for auxiliary contacts	•	2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (20 14)			
AWG number as coo	ded connectable cond	uctor cross	ZA (20 14)			
section			40 0			
for main contacfor auxiliary cor			18 8 20 14			
Safety related data	liacis		20 14		_	
product function						
	according to IEC 60947-	4-1	Yes			
	emand rate according to		450 000			
proportion of dangerous failures						
	with low demand rate according to SN 31920		40 %			
 with high dema 	 with high demand rate according to SN 31920 		73 %			
	low demand rate accord	ling to SN	100 FIT			
31920	an the frent coordina		1000			
60529	on the front according		IP20			
	the front according to	IEC 60529	finger-safe, for vertical conta	act from the front		
suitability for use						
 safety-related s 	0		Yes			
Certificates/ approval		_				
General Product Ap	proval					
SP CSA	<u>Confirmation</u>			<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o		Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK Declaration of Conformity	Type Test Certific- ates/Test Report	Special Test Certific- ate	
Marine / Shipping						
ABS	BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	
Marine / Shipping	other			Dangerous Good		
KMRS RARS	Environmental Con- firmations	<u>Confirmatic</u>		<u>Transport Informa-</u> tion		
Further information 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=3RT2026-2BF40 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2BF40						
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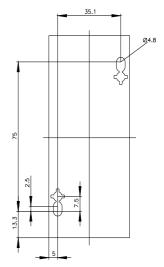
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2BF40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2BF40&lang=en Characteristic: Tripping characteristics, I²t, Let-through current

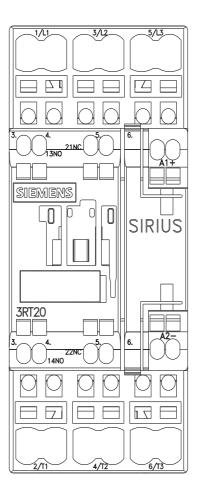
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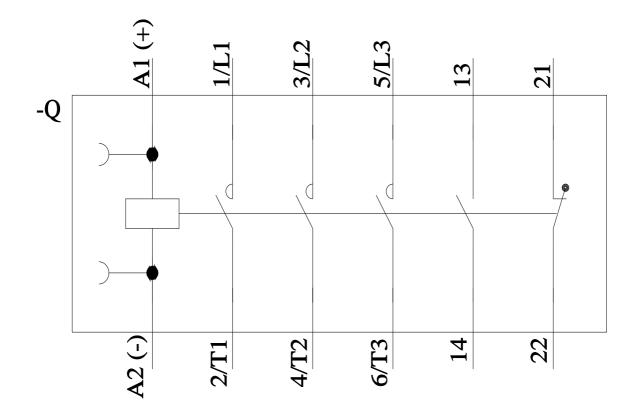
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2BF40&objecttype=14&gridview=view1











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