## SIEMENS

## Data sheet

## 3RT2026-2AB00



power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, 24 V AC, 50 Hz 3-pole, Size S0 Spring-type terminal

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S0			
product extension				
<ul> <li>function module for communication</li> </ul>	No			
auxiliary switch	Yes			
power loss [W] for rated value of the current at AC in hot operating state	4.8 W			
per pole	1.6 W			
power loss [W] for rated value of the current without load current share typical	9.8 W			
surge voltage resistance				
<ul> <li>of main circuit rated value</li> </ul>	6 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	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	8,3g / 5 ms, 5,3g / 10 ms			
shock resistance with sine pulse				
• at AC	13,5g / 5 ms, 8,3g / 10 ms			
mechanical service life (switching cycles)				
<ul> <li>of contactor typical</li> </ul>	10 000 000			
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000			
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000			
reference code acc. to IEC 81346-2	Q			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C			
ambient temperature 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	40 A
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	40 A
<ul> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>	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
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	15.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	35.2 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	20.7 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	20.2 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	20.2 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	20.2 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	12.9 A
<ul> <li>at AC-6a</li> <li>— up to 230 V for current peak value n=30 rated</li> </ul>	13.5 A
value — up to 400 V for current peak value n=30 rated	13.5 A
value — up to 500 V for current peak value n=30 rated	13.5 A
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	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	9 A
at 690 V rated value	9 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	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	
<ul> <li>with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> </ul>	35 A
<ul> <li>with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> </ul>	35 A 35 A
<ul> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	35 A 35 A 35 A
<ul> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>	35 A 35 A 35 A 2.9 A
<ul> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	35 A 35 A 35 A
with 3 current paths in series at DC-1         — at 24 V rated value         — at 110 V rated value         — at 220 V rated value         — at 440 V rated value         — at 600 V rated value  operational current	35 A 35 A 35 A 2.9 A
with 3 current paths in series at DC-1         — at 24 V rated value         — at 110 V rated value         — at 220 V rated value         — at 440 V rated value         — at 600 V rated value  operational current     • at 1 current path at DC-3 at DC-5	35 A 35 A 35 A 2.9 A 1.4 A
with 3 current paths in series at DC-1         — at 24 V rated value         — at 110 V rated value         — at 220 V rated value         — at 440 V rated value         — at 600 V rated value  operational current	35 A 35 A 35 A 2.9 A

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• at 50 Hz	77 V·A					
apparent plot-up power of magnet con at AO						
apparent pick-up power of magnet coil at AC						
• at 50 Hz	0.8 1.1					
operating range factor control supply voltage rated						
at 50 Hz rated value	24 V					
control supply voltage at AC						
type of voltage of the control supply voltage	AC					
Control circuit/ Control						
at AC-3 maximum     at AC-4 maximum	250 1/h					
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> </ul>	750 1/h 750 1/h					
• at AC-1 maximum • at AC-2 maximum	750 1/h					
• at AC-1 maximum	1 000 1/h					
• at AC	5 000 1/h					
no-load switching frequency	5 000 4/h					
Imited to 60 s switching at zero current maximum	106 A; Use minimum cross-section acc. to AC-1 rated value					
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value					
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value					
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	299 A; Use minimum cross-section acc. to AC-1 rated value					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	375 A; Use minimum cross-section acc. to AC-1 rated value					
up to 40 °C	275 At the minimum error postion and to AO 4 acts that the					
short-time withstand current in cold operating state						
• up to 690 V for current peak value n=30 rated value	15.5 kV·A					
• up to 500 V for current peak value n=30 rated value	11.6 kV·A					
• up to 400 V for current peak value n=30 rated value	9.3 kV·A					
• up to 230 V for current peak value n=30 rated value	5.3 kV·A					
operating apparent power at AC-6a						
• up to 690 V for current peak value n=20 rated value	15.4 kV·A					
• up to 500 V for current peak value n=20 rated value	17.4 kV·A					
• up to 400 V for current peak value n=20 rated value	13.9 kV·A					
• up to 230 V for current peak value n=20 rated value	8 kV·A					
operating apparent power at AC-6a						
• at 690 V rated value	7.7 kW					
at 400 V rated value	4.4 kW					
at AC-4						
operating power for approx. 200000 operating cycles						
— at 690 V rated value	11 kW					
— at 500 V rated value	11 KW 11 KW					
— at 400 V rated value	11 kW					
- at 230 V rated value	5.5 kW					
• at AC-3						
— at 600 V rated value operating power	0.6 A					
— at 440 V rated value	0.6 A					
— at 220 V rated value	10 A					
— at 110 V rated value	35 A					
— at 24 V rated value	35 A					
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>at 24 V reted value</li> </ul>	25 A					
— at 600 V rated value	0.16 A					
— at 440 V rated value	0.27 A					
— at 220 V rated value	3 A 0 27 A					
— at 110 V rated value	15 A					
— at 24 V rated value	35 A					
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V roted value</li> </ul>	25 A					
— at 600 V rated value	0.06 A					
— at 440 V rated value	0.09 A					
	1 A					

• at 50 Hz	0.82			
apparent holding power of magnet coil at AC				
• at 50 Hz	9.8 V·A			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.25			
closing delay				
• at AC	8 40 ms			
opening delay				
• at AC	4 16 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 instantaneous contact	1			
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			
<ul> <li>at 400 V rated value</li> </ul>	3 A			
• at 500 V rated value	2 A			
at 690 V rated value	1 A			
operational current at DC-12				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 48 V rated value</li> </ul>	6 A			
<ul> <li>at 60 V rated value</li> </ul>	6 A			
<ul> <li>at 110 V rated value</li> </ul>	3 A			
<ul> <li>at 125 V rated value</li> </ul>	2 A			
<ul> <li>at 220 V rated value</li> </ul>	1 A			
at 600 V rated value	0.15 A			
operational current at DC-13				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 48 V rated value</li> </ul>	2 A			
<ul> <li>at 60 V rated value</li> </ul>	2 A			
<ul> <li>at 110 V rated value</li> </ul>	1 A			
<ul> <li>at 125 V rated value</li> </ul>	0.9 A			
<ul> <li>at 220 V rated value</li> </ul>	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				
<ul> <li>at 480 V rated value</li> </ul>	21 A			
• at 600 V rated value	22 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 110/120 V rated value	2 hp			
— at 230 V rated value	3 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
— at 200/208 V rated value	5 hp			
— at 220/230 V rated value	7.5 hp			
— at 460/480 V rated value	15 hp			
— at 575/600 V rated value	20 hp			
contact rating of auxiliary contacts according to UL	A600 / P600			
Short-circuit protection				
design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
— 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)			

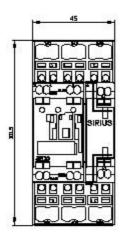


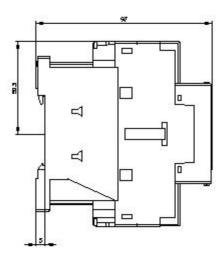
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)				
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)				
required Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible 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 standard mounting rail according to DIN EN 60715				
<ul> <li>side-by-side mounting</li> </ul>	Yes				
height	102 mm				
width	45 mm				
depth	97 mm				
required spacing					
with side-by-side mounting     forwards	10				
— forwards	10 mm 10 mm				
— upwards — downwards	10 mm				
<ul> <li>— at the side</li> <li>for grounded parts</li> </ul>	0 mm				
<ul> <li>for grounded parts</li> <li>forwards</li> </ul>	10 mm				
	10 mm				
— upwards — at the side	10 mm 6 mm				
— at the side — downwards	10 mm				
<ul> <li>for live parts</li> <li>forwards</li> </ul>	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	6 mm				
	0 11111				
Connections/ Terminals					
type of electrical connection	anting loaded to mindle				
for main current circuit	spring-loaded terminals				
for auxiliary and control circuit	spring-loaded terminals				
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>	Spring-type terminals Spring-type terminals				
type of connectable conductor cross-sections	opinig-type terminals				
• for main contacts					
— solid	2x (1 10 mm²)				
— solid or stranded	2x (1 10 mm <sup>2</sup> )				
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )				
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )				
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (18 8)				
connectable conductor cross-section for main					
contacts					
• solid	1 10 mm²				
• stranded	1 10 mm²				
<ul> <li>finely stranded with core end processing</li> </ul>	1 6 mm²				
<ul> <li>finely stranded without core end processing</li> </ul>	1 6 mm²				
connectable conductor cross-section for auxiliary contacts					
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm <sup>2</sup>				
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm²				
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>				
type of connectable conductor cross-sections					
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stranded	2x (0.5 2.5 mm²)				
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)				
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> ) 2x (20 14)				

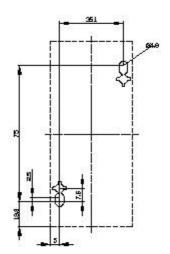
	as coded connectable co	onductor	18 8					
	as coded connectable co	onductor	20 14					
	auxiliary contacts							
Safety related data					_			
	demand rate acc. to SN	31920	1 000 000					
proportion of dange								
<ul> <li>with low deman</li> </ul>	<ul> <li>with low demand rate acc. to SN 31920</li> </ul>			40 %				
<ul> <li>with high dema</li> </ul>	and rate acc. to SN 3192	20	73 %					
failure rate [FIT] with	low demand rate acc. to	SN 31920	100 FIT					
product function								
<ul> <li>mirror contact a</li> </ul>	acc. to IEC 60947-4-1		Yes					
T1 value for proof te IEC 61508	est interval or service	life acc. to	20 y					
protection class IP	on the front acc. to IEC	C 60529	IP20					
touch protection on	the front acc. to IEC 6	60529	finger-safe,	for vertical cor	ntact from the front			
suitability for use safe	ety-related switching OF	F	Yes					
Certificates/ approva	ls							
						EMC		
General Product A	pprovai					EMC		
(SP)	CCC			<u>KC</u>	EHC	RCM		
Declaration of Con	formity	Test Certifica	ates		Marine / Shipping			
CE EG-Konf.	<u>Miscellaneous</u>	<u>Special Te</u> <u>Certificate</u>		<u>Type Test</u> tificates/Test <u>Report</u>	ABS	BUREAU VERITAS		
Marine / Shipping						other		
Lloyds Register urs	PRS	() RINA		KMRS RMRS	DNV-GL Ewsledger	<u>Confirmation</u>		
other								
other								
UDE VDE	<u>Confirmation</u>							
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=3RT2026-2AB00 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2AB00 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AB00 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2AB00⟨=en								

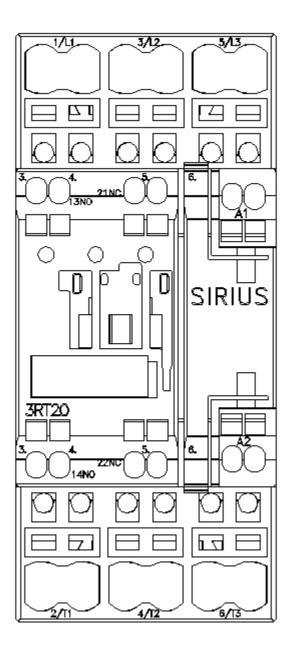


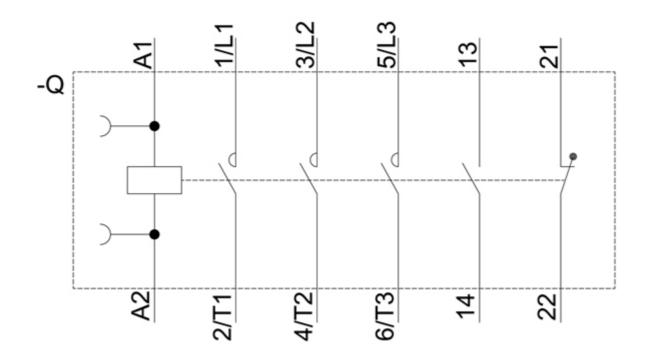
## Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AB00/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2AB00&objecttype=14&gridview=view1











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