SIEMENS

Data sheet

3RT2535-1AB00



Power contactor, AC-3 40 A, 18.5 kW / 400 V 2 NO + 2 NC 24 V AC, 50 Hz 4-pole size S2 screw terminals 1 NO + 1 NC integrated

10. 10. 4	
product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
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 between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-40 +70 °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	4
number of NO contacts for main contacts	2
number of NC contacts for main contacts	2
operational current	

e at AC 1 up to 600 V			
 at AC-1 up to 690 V — at ambient temperature 40 °C rated value 	60 A		
— at ambient temperature 40°C rated value			
	55 A		
• at AC-2 at AC-3 at 400 V	25 A		
— per NO contact rated value	35 A		
— per NC contact rated value	35 A		
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²		
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	1A		
— at 440 V rated value	0.4 A		
 with 2 current paths in series at DC-1 			
- at 24 V rated value	55 A		
— at 110 V rated value	45 A		
	5 A		
— at 220 V rated value			
— at 440 V rated value	1 A		
at 1 current path at DC-3 at DC-5 at 24 V por NC contract roted value	25.4		
— at 24 V per NC contact rated value	35 A		
— at 24 V per NO contact rated value	35 A		
— at 110 V per NC contact rated value	1.25 A		
— at 110 V per NO contact rated value	2.5 A		
— at 220 V per NC contact rated value	0.5 A		
— at 220 V per NO contact rated value	1 A		
— at 440 V per NC contact rated value	0.045 A		
— at 440 V per NO contact rated value	0.1 A		
• with 2 current paths in series at DC-3 at DC-5			
— at 24 V per NC contact rated value	55 A		
— at 24 V per NO contact rated value	55 A		
— at 110 V per NC contact rated value	12.5 A		
— at 110 V per NO contact rated value	25 A		
 — at 220 V per NC contact rated value 	2.5 A		
- at 220 V per NO contact rated value	5 A		
— at 440 V per NC contact rated value	0.135 A		
— at 440 V per NO contact rated value	0.27 A		
operating power at AC-2 at AC-3			
a at 220 V par NC contract rated value	11 kW		
 at 230 V per NC contact rated value 			
• at 230 V per NO contact rated value	11 kW		
 at 230 V per NO contact rated value at 400 V per NC contact rated value 	11 kW 18.5 kW		
 at 230 V per NO contact rated value at 400 V per NC contact rated value at 400 V per NO contact rated value 	11 kW		
 at 230 V per NO contact rated value at 400 V per NC contact rated value at 400 V per NO contact rated value short-time withstand current in cold operating state 	11 kW 18.5 kW		
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inductive power factor with closing power of the coil	0.72			
• at 50 Hz	0.72			
apparent holding power of magnet coil at AC	16 VA			
• at 50 Hz	16 VA			
inductive power factor with the holding power of the coil	0.37			
• 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	AC			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	1			
instantaneous contact				
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	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	1A			
• at 600 V rated value	0.15 A			
	0.15 A			
operational current at DC-13	10.4			
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				
yielded mechanical performance [hp]				
 for 3-phase AC motor at 460/480 V rated value 	20 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	gG: 125 A (690 V, 100 kA)			
— with type of assignment 2 required	gG: 63A (690V, 100kA)			
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A			
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			
	50022			
 side-by-side mounting 	Yes			
height	114 mm			
width	75 mm			
depth	130 mm			
required spacing				
with side-by-side mounting				
— forwards	0 mm			

haaluvarda	0 mm			
— backwards	0 mm			
— upwards — downwards	0 mm 0 mm			
— at the side	0 mm			
 for grounded parts 	0 mm			
- forwards	0 mm			
— backwards	0 mm 0 mm			
— upwards	50 mm			
— at the side	10 mm			
— downwards	50 mm			
• for live parts				
— forwards	0 mm			
— backwards	0 mm			
— upwards	50 mm			
— downwards	50 mm			
— at the side	10 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 	Screw-type terminals			
type of connectable conductor cross-sections	Sciew-type terminals			
for main contacts				
— solid	$2x (1 - 35 \text{ mm}^2) + 1x (1 - 50 \text{ mm}^2)$	$2x(1 - 2Emm^2) = 1x(1 - E0mm^2)$		
— solid — solid or stranded	2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²)			
 — finely stranded with core end processing 	2x (1 25 mm ²), 1x (1 35 mm ²)			
 at AWG cables for main contacts 	2x (18 2), 1x (18 1)			
type of connectable conductor cross-sections	2x (10 2), 1x (10 1)			
for auxiliary contacts				
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— 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 (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross	18 1			
section for main contacts				
Safety related data				
product function				
 mirror contact according to IEC 60947-4-1 	Yes			
 positively driven operation according to IEC 60947- 	No			
5-1				
protection class IP on the front according to IEC	IP20			
60529				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
Certificates/ approvals				
General Product Approval		EMC		
Confirmation				
		A		
		Â		
		RCM		
Functional	, FHT			
Functional Safety/Safety of Declaration of Conformity	Test Certificates	RCM		
Functional	, FHT	RCM		
Functional Safety/Safety of Machinery Declaration of Conformity	Test Certificates	RCM		
Functional Safety/Safety of Machinery Declaration of Conformity	Test Certificates	RCM		
Functional Safety/Safety of Machinery Declaration of Conformity	Test Certificates	Marine / Shipping		
Functional Safety/Safety of Machinery Declaration of Conformity Type Examination	Test Certificates	Marine / Shipping		
Functional Safety/Safety of Machinery Declaration of Conformity Type Examination Certificate CE	Test Certificates	Marine / Shipping		

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Marine / Shipping					
BUREAU VERITAS		Lloyd's Register uis	PRS	RINA	RMRS
other	Railway	Dangerous Good			
Confirmation	Vibration and Shock	<u>Transport Informa-</u> <u>tion</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=3RT2535-1AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2535-1AB00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1AB00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

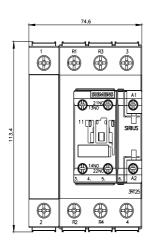
 $\underline{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2535-1AB00\&lang=enderseterender$

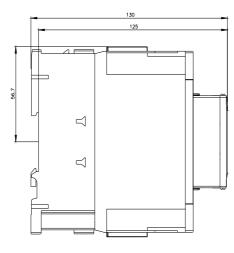
Characteristic: Tripping characteristics, I²t, Let-through current

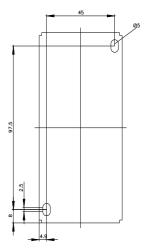
https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1AB00/char

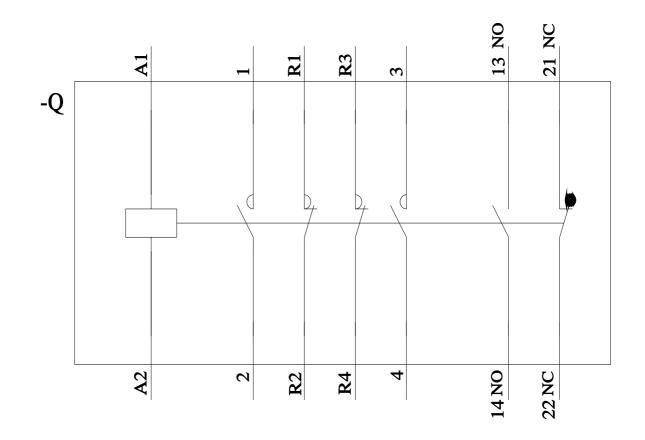
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2535-1AB00&objecttype=14&gridview=view1









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11/21/2022 🖸