SIEMENS

Data sheet

3RT2517-1AP00

Power contactor, AC-3 12 A, 5.5 kW / 400 V 2 NO + 2 NC 230 V AC, 50/60 Hz 4-pole Size S00 Screw terminal



Product brand name	SIRIUS
Product designation	contactor
Product type designation	3RT25
General technical data	
Size of contactor	S00
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
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 	400 V
60947-1	
Protection class IP	
• on the front	IP20

• on the frontIP20• of the terminalIP20Shock resistance at rectangular impulse• at AC7,3g / 5 ms, 4,7g / 10 ms

Installation altitude at height above sea level 2 000 m	Shock resistance with sine pulse	
 of contactor typical 30 000 000 of the contactor with added electronics- compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical 000 000 000 000 000 000	• at AC	11,4g / 5 ms, 7,3g / 10 ms
 a the contactor with added electronics- compatible auxiliary switch block typical a of the contactor with added auxiliary switch block typical Reference code acc. to DIN EN 81346-2 Q Ambient conditions Installation altitude at height above see level maximum 2 000 m Mumber of poles for main contacts Q Operating current at AC-1 at AC-1 at AC-1 at AC-1 at AC-1 at AC-1 bit to the sign of the s	Mechanical service life (switching cycles)	
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- at 24 V rated value 20 A - at 110 V rated value 2.1 A - at 220 V rated value 0.8 A - at 440 V rated value 0.6 A • with 2 current paths in series at DC-1 - - at 24 V rated value 20 A - at 24 V rated value 12 A - at 220 V rated value 16 A - at 440 V rated value 0.8 A - at 440 V rated value 0.8 A - at 24 V rated value 1.6 A - at 440 V rated value 0.8 A - at 440 V rated value 0.8 A	Operating current	
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at 110 V rated value12 A at 220 V rated value1.6 A at 440 V rated value0.8 AOperating current	 with 2 current paths in series at DC-1 	
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at 440 V rated value 0.8 A Operating current at 24 V per NC contact rated value 20 A	— at 110 V rated value	12 A
Operating current • at 1 current path at DC-3 at DC-5 — at 24 V per NC contact rated value 20 A	— at 220 V rated value	1.6 A
at 1 current path at DC-3 at DC-5 — at 24 V per NC contact rated value 20 A	— at 440 V rated value	0.8 A
- at 24 V per NC contact rated value 20 A	Operating current	
	• at 1 current path at DC-3 at DC-5	
- at 24 V per NO contact rated value 20 A	— at 24 V per NC contact rated value	20 A
	— at 24 V per NO contact rated value	20 A

— at 110 V per NC contact rated value	0.075 A
— at 110 V per NO contact rated value	0.15 A
— at 220 V per NC contact rated value	0.375 A
— at 220 V per NO contact rated value	0.75 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V per NC contact rated value	20 A
— at 24 V per NO contact rated value	20 A
— at 110 V per NC contact rated value	0.175 A
— at 110 V per NO contact rated value	0.35 A
Operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 400 V rated value	13 kW
• at AC-2 at AC-3	
— at 230 V per NC contact rated value	2.2 kW
— at 230 V per NO contact rated value	3 kW
— at 400 V per NC contact rated value	4 kW
— at 400 V per NO contact rated value	5.5 kW
Power loss [W] at AC-3 at 400 V for rated value of	1.2 W
the operating current per conductor	
No-load switching frequency	
● at AC	10 000 1/h
• at DC	10 000 1/h
Operating frequency	
● at AC-1 maximum	1 000 1/h
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	0.8 1.1
• at 50 Hz	0.85 1.1
• at 60 Hz Apparent pick-up power of magnet coil at AC	37 V·A
• at 50 Hz	27 V·A
• at 60 Hz	24.3 V·A
Inductive power factor with closing power of the coil	0.8
• at 50 Hz	0.8
• at 60 Hz	0.75
Apparent holding power of magnet coil at AC	4.2 V·A
• at 50 Hz	4.2 V·A

• at 60 Hz	3.3 V·A		
Inductive power factor with the holding power of the	0.25		
coil			
• at 50 Hz	0.25		
• at 60 Hz	0.25		
Closing delay			
• at AC	8 33 ms		
Opening delay			
• at AC	4 15 ms		
Arcing time	10 15 ms		
Residual current of the electronics for control with signal <0>			
• at AC at 230 V maximum permissible	0.004 A		
Auxiliary circuit			
Number of NC contacts for auxiliary contacts			
 instantaneous contact 	0		
Number of NO contacts for auxiliary contacts			
 instantaneous contact 	0		
Operating current at AC-12 maximum	10 A		
Operating current at AC-15			
• at 230 V rated value	10 A		
• at 400 V rated value	3 A		
Operating current at DC-12			
• 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		
Operating 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 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]	
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• for single-phase AC motor

— at 110/120 V rated value

0.5 hp

— at 230 V rated value	2 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: 35 A (690 V, 100 kA)			
— with type of assignment 2 required	gG: 20A (690V, 100kA)			
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A			
required				
Installation/mounting/dimonsions				
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			
Mounting type	screw and snap-on mounting onto 35 mm standard mounting ra according to DIN EN 50022			
Side-by-side mounting	Yes			
Height	57.5 mm			
Width	45 mm			
Depth	73 mm			
Required spacing				
 with side-by-side mounting 				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— at the side	6 mm			
— downwards	0 mm			
• for live parts				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	6 mm			
Connections/Terminals				
Type of electrical connection				
• for main current circuit	screw-type terminals			

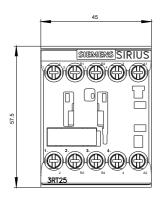
screw-type terminals

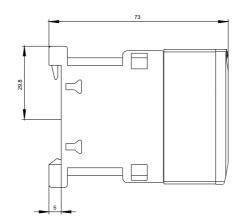
 for auxiliary and control current circuit 	screw-type terminals		
Type of connectable conductor cross-sections			
 for main contacts 			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 at AWG conductors for main contacts 	2x (20 16), 2x (18 14), 2x 12		
Type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12		
AWG number as coded connectable conductor cross section for main contacts	20 12		
Safety related data			
Product function			
 Mirror contact acc. to IEC 60947-4-1 	Yes; with 3RH29		
 positively driven operation acc. to IEC 60947-5- 1 	No		
T1 value for proof test interval or service life acc. to IEC 61508	20 у		
Protection against electrical shock	finger-safe		
Certificates/approvals			

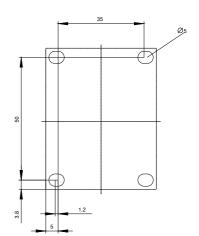
General Product	Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
	CSA		EHC	Type Examination Certificate	EG-Konf.
Declaration of Conformity	Test Certific- ates	Marine / Ship	pping		
Miscellaneous	Type Test Certific- ates/Test Report	ABS	B U R E A U VERITAS	Llovd's Register LRS	PRS
Marine / Shippin	g		other		
RINA	RMRS	DNV-GL	Confirmation		
rther information formation- and Dov tp://www.siemens.cor	vnloadcenter (Catalo	o gs, Brochures,)		
dustry Mall (Online			b=3RT2517-1AP00		
ax online generator			ox?lang=en&mlfb=3RT25 ⁻	I7-1AP00	
	anuals, Certificates, siemens.com/cs/ww/er				
nage database (pro	duct images, 2D dim	ension drawings	, 3D models, device cir o RT2517-1AP00⟨=en	cuit diagrams, EPLAN	macros,)

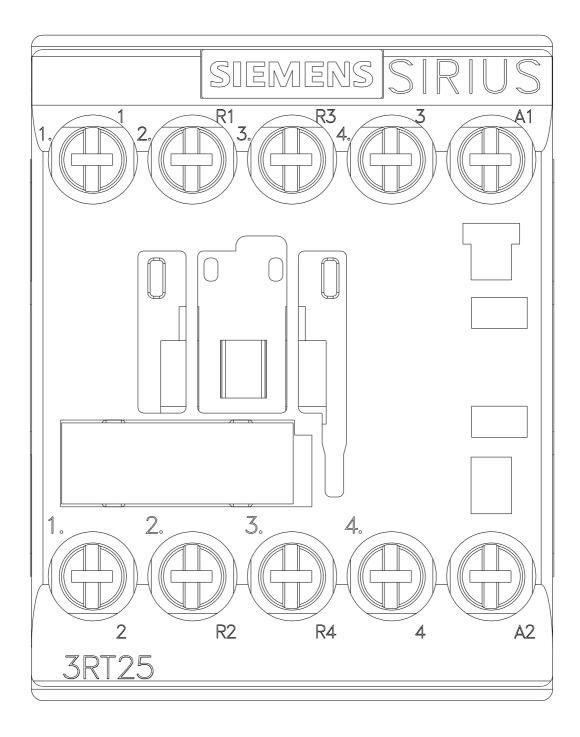
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-1AP00/char

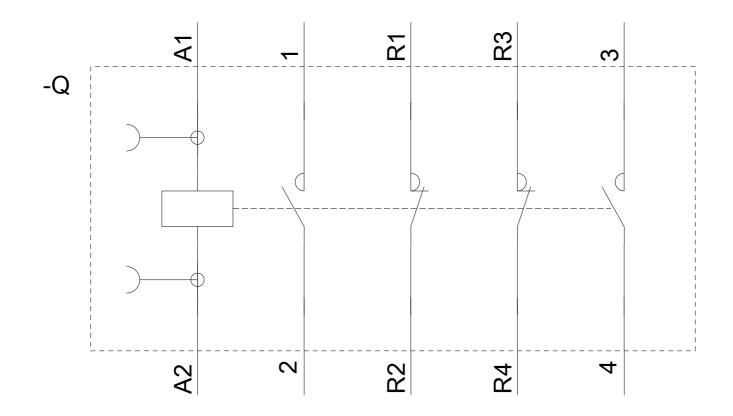
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-1AP00&objecttype=14&gridview=view1











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