SIEMENS

Data sheet 3RT2517-2AP00



2NO+2NC CONTACTOR, AC3: 5.5KW AC 230V 50HZ 4-POLE, 2NO+2NC, SZ: S00, SPRING-LOADED TERMINAL

	SIRIUS
	3RT2 contactor
V	690
	3
kV	6
	30 000 000
	5 000 000
	10 000 000
	IP20
	Q
	Q
	4
	2
	2

 up to 690 V at ambient temperature 40 °C Rated value 	Α	22
 up to 690 V at ambient temperature 60 °C Rated value 	Α	20
● at AC-2 at AC-3 at 400 V		
— per NO contact Rated value	Α	12
— per NC contact Rated value	Α	9
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.1
— at 220 V Rated value	Α	0.8
— at 440 V Rated value	Α	0.6
• at DC-3 at DC-5		
— at 24 V per NC contact Rated value	Α	20
— at 24 V per NO contact Rated value	Α	20
— at 110 V per NC contact Rated value	Α	0.075
— at 110 V per NO contact Rated value	Α	0.15
— at 220 V per NC contact Rated value	Α	0.375
— at 220 V per NO contact Rated value	Α	0.75
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	12
— at 220 V Rated value	Α	1.6
— at 440 V Rated value	Α	0.8
• at DC-3 at DC-5		
— at 110 V per NC contact Rated value	Α	0.175
— at 110 V per NO contact Rated value	Α	0.35
— at 24 V per NC contact Rated value	Α	20
— at 24 V per NO contact Rated value	Α	20
Operating power		
• at AC-1 at 400 V Rated value	kW	13
Operating power		
• at AC-1		
— at 230 V Rated value	kW	7.5
• at AC-2 at AC-3		
— at 230 V per NC contact Rated value	kW	2.2
— at 230 V per NO contact Rated value	kW	3
— at 400 V per NC contact Rated value	kW	4
— at 400 V per NO contact Rated value	kW	5.5

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
● at 50 Hz Rated value	V	230
• at 60 Hz Rated value	V	230
Operating range factor control supply voltage rated		
value of the magnet coil with AC		
● at 50 Hz		0.8 1.1
• at 60 Hz		0.85 1.1
Apparent pick-up power of the magnet coil with AC	V·A	37
Apparent holding power of the magnet coil with AC	V·A	5.7
Inductive power factor		
with closing power of the coil		0.8
with the holding power of the coil		0.25
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
 instantaneous contact 		0
Number of NO contacts		
 for auxiliary contacts 		
 instantaneous contact 		0
Product expansion Auxiliary switch		Yes
Operating current at AC-15		
• at 230 V Rated value	Α	10
• at 400 V Rated value	Α	3
Operating current		
• at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 220 V Rated value	Α	1
• at DC-12 at 600 V Rated value	Α	0.15
• at DC-13 at 220 V Rated value	Α	0.3
• at DC-13 at 600 V Rated value	Α	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
• at DC-13		
— at 24 V Rated value	Α	10
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:		
TOL/COA Tallings.		

yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated	metric	0.5
value	hp 	
• for single-phase AC motor at 230 V Rated	metric	2
value	hp	
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

Short-circuit:	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of assignment 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A

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 rail according to DIN EN 50022
Side-by-side mounting		Yes
Height	mm	70
Width	mm	45
Depth	mm	73
Required spacing		
 with side-by-side mounting 		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	6
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— upwarus	11111	Ť

— at the side	mm	6
Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded terminals
Type of connectable conductor cross-section		
• for main contacts		
— solid		2x (0.5 4 mm²)
— single or multi-stranded		2x (0,5 4 mm²)
 finely stranded with core end processing 		2x (0.5 2.5 mm²)
finely stranded without core end processing		2x (0.5 2.5 mm²)
 for AWG conductors for main contacts 		2x (20 12)
• for auxiliary contacts		
— solid		2x (0.5 4 mm²)
 single or multi-stranded 		2x (0,5 4 mm²)
 finely stranded with core end processing 		2x (0.5 2.5 mm²)
 finely stranded without core end processing 		2x (0.5 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 12)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	37
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures	%	40
with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920		
with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN	% FIT	73 100
31920	FII	
Product function Mirror contact acc. to IEC 60947-4-1		Yes
• Note		with 3RH29
T1 value for proof test interval or service life acc. to IEC 61508	у	20
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S00
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		

0

mm

- downwards

during operation

°C -25 ... +60 °C -55 ... +80

during storage

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination



Test

Shipping Approval

Special Test Certificate

Certificates







other



GL



Shipping Approval







Environmental Confirmations

Confirmation



LRS

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT25172AP00}\\$

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

http://support.automation.siemens.com/WW/view/en/3RT25172AP00/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT25172AP00&lang=en



