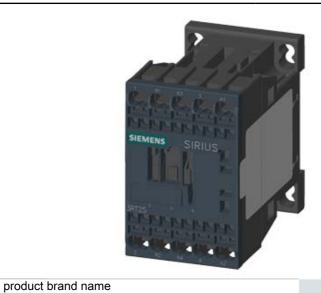
SIEMENS

Data sheet 3RT2517-2AK60



2NO+2NC CONTACTOR, AC3: 5.5KW DC 110V 50HZ, 120V 60HZ 4-POLE, 2NO+2NC, SZ: S00, SPRING-LOADED TERMINAL

Product designation		3RT2 contactor
General technical data:		
Insulation voltage		
Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
 of the contactor typical 		30 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 		5 000 000
 of the contactor with added auxiliary switch block typical 		10 000 000
Protection class IP		
• on the front		IP20
Equipment marking		
● acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q
Main circuit:		
Number of poles for main current circuit		4
Number of NC contacts for main contacts		2
Number of NO contacts for main contacts		2
Operating current		

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• at AC-1

		00
— up to 690 V at ambient temperature 40 °CRated 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	110
● at 60 Hz Rated value	V	120
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	43
Apparent holding power of the magnet coil with AC	V·A	6.5
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:		

yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.5
• for single-phase AC motor at 230 V Rated value	metric hp	2
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
g pecialis		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
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— 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 		2x (0.5 2.5 mm²)
processing		
 for AWG conductors for auxiliary contacts 		2x (20 12)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	43
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures	0/	
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	73
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100
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	m	2 000
maximum	m	2 000

0

mm

- downwards

during operation

°C -25 ... +60 °C

during storage

-55 ... +80

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery

Declaration of Conformity









Type Examination



T	est

Shipping Approval

Special Test Certificate

Certificates











GL

LRS

Shipping Approval









Confirmation

Environmental Confirmations



Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

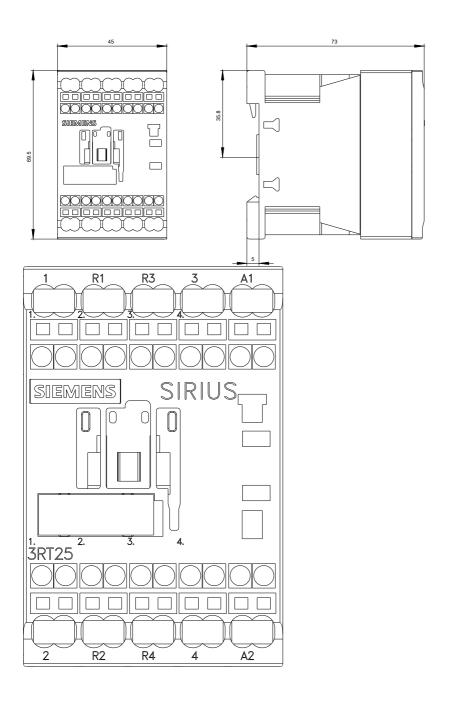
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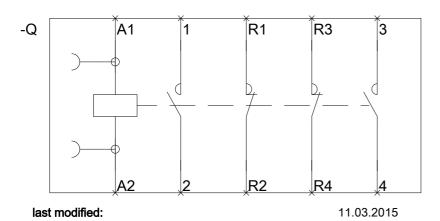
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT25172AK60

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

http://support.automation.siemens.com/WW/view/en/3RT25172AK60/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=3RT25172AK60&lang=en





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