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Data sheet 3RT1015-2AP01

Figure similar

CONTACTOR, AC-3 3 KW/400 V, 1 NO, AC 230 V, 50/60 HZ, 3-POLE, SIZE S00, CAGE CLAMP CONNECTION

product brand name		SIRIUS
Product designation		power contactor
General technical data:		
Degree of pollution		3
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
• of the terminal		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		3
Number of NC contacts for main contacts		0
Number of NO contacts for main contacts		3
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	A	18

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— up to 690 V at ambient temperature 40 °C Rated value	A	18
— up to 690 V at ambient temperature 60 °C Rated value	A	16
• at AC-3		
— at 400 V Rated value	A	7
• at AC-4 at 400 V Rated value	A	6.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	A	15
— at 110 V Rated value	A	1.5
• at DC-3 at DC-5		
— at 24 V Rated value	A	15
— at 110 V Rated value	A	0.1
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	A	15
— at 110 V Rated value	A	8.4
• at DC-3 at DC-5		
— at 110 V Rated value	A	0.25
— at 24 V Rated value	A	15
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	A	15
— at 110 V Rated value	A	15
• at DC-3 at DC-5		
— at 110 V Rated value	A	15
— at 24 V Rated value	A	15
Operating power		
• at AC-1 at 400 V Rated value	kW	11
• at AC-2 at 400 V Rated value	kW	3
• at AC-4 at 400 V Rated value	W	3 000
Operating power		
• at AC-3		
— at 400 V Rated value	kW	3
— at 500 V Rated value	kW	3.5
— at 690 V Rated value	kW	4

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
• at 50 Hz Rated value	V	230

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• at 60 Hz Rated value	V	230
• Rated value	Hz	50
Control supply voltage frequency 2 Rated value	Hz	60
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	27
Apparent holding power of the magnet coil with AC	V·A	4.4
Inductive power factor		
• with closing power of the coil		0.8
• with the holding power of the coil		0.27

Auxiliary circuit:

Number of NC contacts		
• for auxiliary contacts		
— instantaneous contact		0
Number of NO contacts		
• for auxiliary contacts		
— instantaneous contact		1
Operating current at AC-15		
• at 230 V Rated value	A	6
• at 400 V Rated value	A	3
Operating current		
• at DC-12 at 220 V Rated value	A	1
• at DC-13 at 220 V Rated value	A	0.3
Operating current		
• at DC-12		
— at 60 V Rated value	A	6
— at 110 V Rated value	A	3
• at DC-13		
— at 24 V Rated value	A	10
— at 60 V Rated value	A	2
— at 110 V Rated value	A	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)

Short-circuit:

Design of the fuse link		
• for short-circuit protection of the main circuit		
— with type of assignment 1 required		fuse gL/gG: 35 A
— with type of assignment 2 required		fuse gL/gG: 20 A
• for short-circuit protection of the auxiliary switch required		fuse gL/gG: 10 A

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Installation/ mounting/ dimensions:		
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	60
Width	mm	45
Depth	mm	73
Required spacing		
• for grounded parts		
— at the side	mm	6

Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		Cage Clamp terminals
• for auxiliary and control current circuit		Cage Clamp terminals
Type of connectable conductor cross-section		
• for main contacts		
— solid		2x (0.25 ... 2.5 mm²)
— single or multi-stranded		2x (0,25 ... 2,5 mm²)
— finely stranded with core end processing		2x (0.25 ... 1.5 mm²)
— finely stranded without core end processing		2x (0.25 ... 2.5 mm²)
• for AWG conductors for main contacts		2x (24 ... 14)
• for auxiliary contacts		
— solid		2x (0.25 ... 2.5 mm²)
— finely stranded with core end processing		2x (0.25 ... 1.5 mm²)
— finely stranded without core end processing		2x (0.25 ... 2.5 mm²)
• for AWG conductors for auxiliary contacts		2x (24 ... 14)

Mechanical data:		
Size of contactor		S00

Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60

Certificates/ approvals:

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General Product Approval					Functional Safety/Safety of Machinery
CCC	CSA	UR	UL	EAC	Type Examination

Declaration of Conformity	Test Certificates	Shipping Approval			
EG-Konf.	Special Test Certificate	ABS	DNV	GL	LRS

Shipping Approval			other		
PRS	RINA	RMRS	Confirmation	Environmental Confirmations	other

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
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10152AP01

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RT10152AP01/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=3RT10152AP01&lang=en

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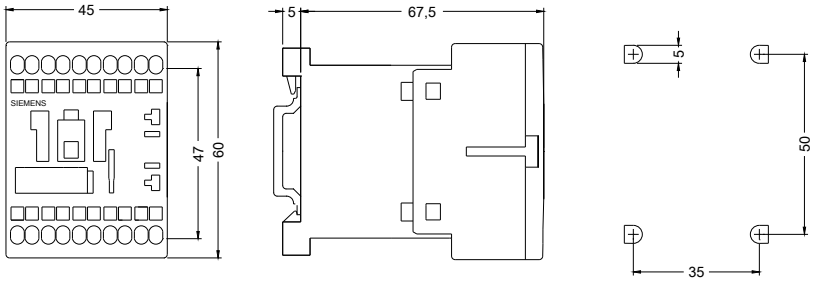

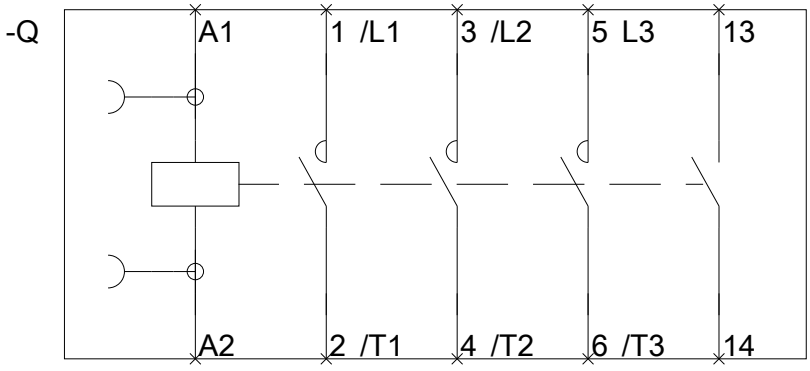

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