SIEMENS

Product data sheet 3RT1017-2VB42

COUPLING RELAY, 5.5 KW/400 V 3-POLE,
SIZE S00, 1 NC, 24 V DC,
0.85...1.85 X US, 1.4 W,
CAGE CLAMP CONNECTION, DIODE BUILT-IN

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature / during operating	°C	-25 … +60
Mechanical operating cycles as operating time		
• of the contactor / typical		30,000,000

Main circuit:		
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 40 °C ambient temperature / rated value	A	22
• at AC-3 / at 400 V / rated value	A	12
• at AC-4 / at 400 V / rated value	A	8.5
• with 1 current path / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	2.1

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• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	12
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	20
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	0.15
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	0.35
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	20
Service power		
• at AC-2 / at 400 V / rated value	kW	5.5
• at AC-3 / at 400 V / rated value	kW	5.5
• at AC-4 / at 400 V / rated value	W	4,000

Control circuit:		
Design of the surge suppressor		with diode
Voltage type / of control feed voltage		DC
Operating range factor control supply voltage rated value / of the magnet coil		
• for DC		0.85 … 1.85
Pull-in power / of the solenoid / for DC	W	1.4
Holding power / of the solenoid / for DC	W	1.4

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		0

Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
• for short-circuit protection of the main circuit		
• with type of assignment 1 / required		fuse gL/gG: 35 A
• at type of coordination 2 / required		fuse gL/gG: 20 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
series installation		Yes
Width	mm	45
Height	mm	60
Depth	mm	73
Distance, to be maintained, to earthed part / sidewards	mm	6

Connection type:

Design of the electrical connection		
• for main current circuit		Cage Clamp terminals
• for auxiliary and control current circuit		Cage Clamp terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (0.25 ... 2.5 mm²)
• finely stranded		
• with conductor end processing		2x (0.25 ... 1.5 mm²)
• without conductor final cutting		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 conductor end processing		2x (0.25 ... 1.5 mm²)
• without conductor final cutting		2x (0.25 ... 2.5 mm²)
• for AWG conductors / for auxiliary contacts		2x (24 ... 14)

Certificates/approvals:

General Product Approval			Functional Safety / Safety of Machinery	Declaration of Conformity	Test Certificates
CSA		UL	Type Examination	EG-Konf.	Special Test Certificate
Shipping Approval					
ABS	GL	RINA	RMRS		
other					
Confirmation	other	Environmental Confirmations			

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Further information:

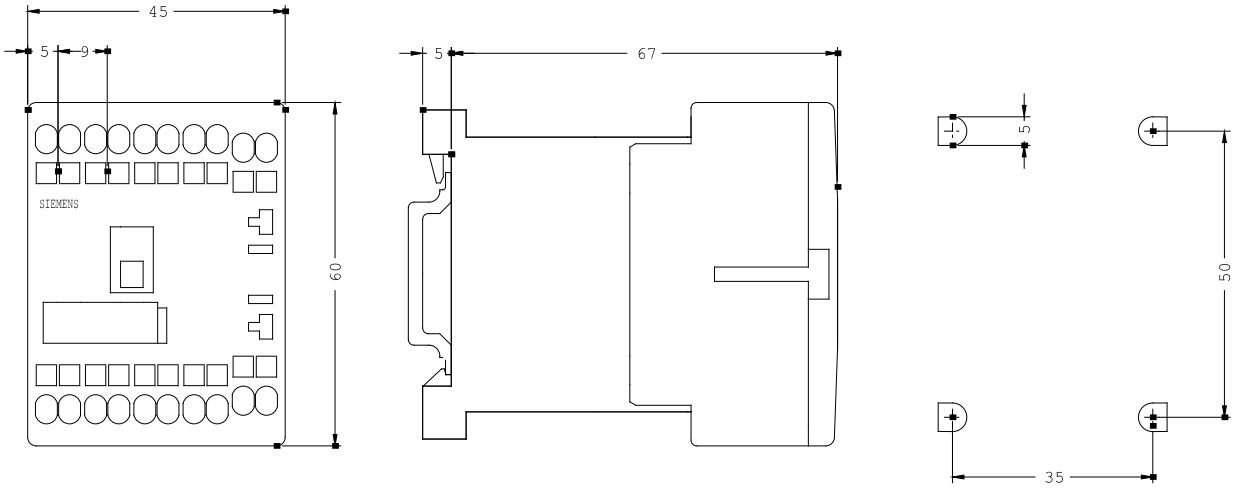
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

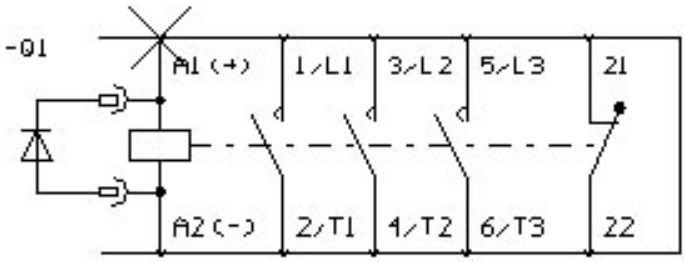
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

Cax online generator:
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RT1017-2VB42/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1017-2VB42





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