

CONTACTOR 3-PH 5.5 KW/400 V, 24 V DC, 0.7...1.25*US, WITH
VARISTOR, 3-POLE, SIZE S0, SCREW CONNECTION STANDING
MOUNTING POSITION



Figure similar

product brandname	SIRIUS
Product designation	power contactor
General technical data	
Size of contactor	S0
Degree of pollution	3
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Mechanical service life (switching cycles)	
• of contactor typical	10 000 000
Ambient conditions	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
• during operation	-25 ... +60 °C
Main circuit	
Number of poles for main current circuit	3

Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V — at ambient temperature 40 °C rated value	40 A
• at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value	40 A 35 A
• at AC-3 — at 400 V rated value	12 A
Operating current	
• at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value	35 A 4.5 A
• with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value	35 A 35 A
• with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value	35 A 35 A
Operating current	
• at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value	20 A 2.5 A
• with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value — at 24 V rated value	15 A 35 A
• with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value — at 24 V rated value	35 A 35 A
Operating power	
• at AC-1 — at 400 V rated value	23 kW
• at AC-2 at 400 V rated value	5.5 kW
• at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value	5.5 kW 7.5 kW 7.5 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	0.5 W

Control circuit/ Control	
Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
• rated value	24 V
Operating range factor control supply voltage rated value of magnet coil at DC	0.7 ... 1.25
Design of the surge suppressor	with varistor
Closing power of magnet coil at DC	4.2 W
Holding power of magnet coil at DC	4.2 W

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	6 A
• at 400 V rated value	3 A
Operating current at DC-12	
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

Short-circuit protection	
Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of coordination 1 required	fuse gL/gG: 63 A
— with type of assignment 2 required	fuse gL/gG: 25 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A

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	88 mm
Width	45 mm
Depth	101 mm
Required spacing • for grounded parts — at the side	6 mm

Connections/Terminals

Type of electrical connection • for main current circuit • for auxiliary and control current circuit	screw-type terminals screw-type terminals
Type of connectable conductor cross-sections • for main contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts	2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²), max. 2x 10 mm ² 2x (1 ... 2,5 mm ²), 2x (2,5 ... 6 mm ²), max. 2x 10 mm ² 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) 2x (16 ... 12), 2x (14 ... 10), 1x 8
Type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing • at AWG conductors for auxiliary contacts	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/approvals

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
 CSA	 EAC	 EG-Konf.	Typprüfbescheinigung/Werkszeugnis spezielle Prüfbescheinigungen n  ABS
Shipping Approval	other		
 DNV	 GL	 LRS	 RINA
			 RMRS
Umweltbestätigung			
other			
Bestätigungen	sonstig		

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1024-1KB40-1AA0>

Cax online generator

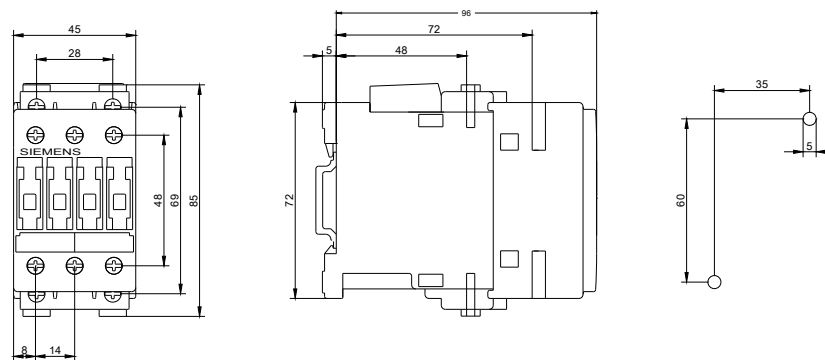
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1024-1KB40-1AA0>

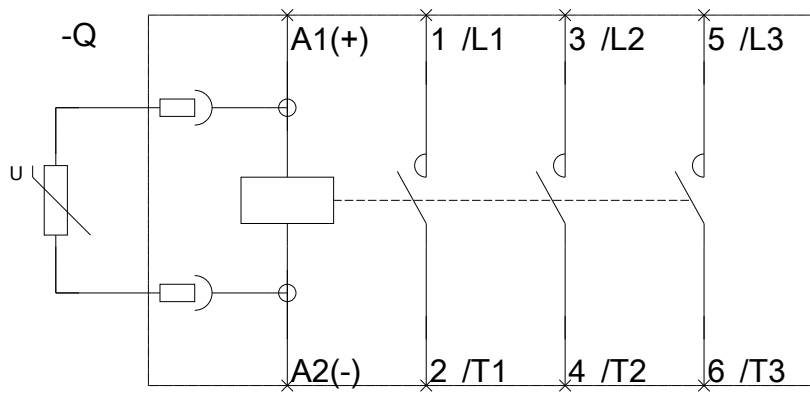
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1024-1KB40-1AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1024-1KB40-1AA0&lang=en





last modified:

10/31/2016