

CONTACTOR, AC-3, 5.5KW/400V, AC-1, 22A, 24V DC, 4-POLE,
2NO+2NC, SIZE S00, CAGE CLAMP TERMINAL REUSABLE
PACKAGING 1 PACK = 144 UNITS



product brand name	SIRIUS
Product designation	power contactor
General technical data	
Size of contactor	S00
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Protection class IP	
• on the front	IP20
Mechanical service life (switching cycles)	
• of 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
Ambient conditions	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	

- during operation
- during storage

-25 ... +60 °C

-55 ... +80 °C

Main circuit

Number of poles for main current circuit	4
Number of NO contacts for main contacts	2
Number of NC contacts for main contacts	2
Operating current	
• 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 • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value	22 A 20 A 12 A 12 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible • at 40 °C minimum permissible	2.5 mm ² 2.5 mm ²
Operating current	
• at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value	20 A 2.1 A 0.8 A 0.6 A 20 A 12 A 1.6 A 0.8 A
Operating current	
• at 1 current path at DC-3 at DC-5 — at 24 V per NC contact rated value — at 24 V per NO contact rated value — at 110 V per NC contact rated value — at 110 V per NO contact rated value — at 220 V per NC contact rated value — at 220 V per NO contact rated value • with 2 current paths in series at DC-3 at DC-5 — at 110 V per NC contact rated value — at 110 V per NO contact rated value — at 24 V per NC contact rated value	20 A 20 A 0.075 A 0.15 A 0.375 A 0.75 A 0.175 A 0.35 A 20 A

— at 24 V per NO contact rated value	20 A
Operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 400 V rated value	13 kW
• at AC-2 at AC-3	
— at 230 V per NC contact rated value	3 kW
— at 230 V per NO contact rated value	3 kW
— at 400 V per NC contact rated value	5.5 kW
— at 400 V per NO contact rated value	5.5 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	0.7 W
Operating frequency	
• at AC-1 maximum	1 000 1/h

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	0.85 ... 1.1
Closing power of magnet coil at DC	3.3 W
Holding power of magnet coil at DC	3.3 W
Closing delay	
• at AC	8 ... 35 ms
• at DC	25 ... 100 ms
Opening delay	
• at AC	4 ... 30 ms
• at DC	7 ... 10 ms
Arcing time	10 ... 15 ms
Control version of the switch operating mechanism	conventional
Residual current of the electronics for control with signal <0>	
• at DC at 24 V maximum permissible	0.01 A

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 • at 400 V rated value	6 A 3 A
Operating current at DC-12	
• at 60 V rated value • at 110 V rated value • at 220 V rated value	6 A 3 A 1 A
Operating current at DC-13	
• at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value	10 A 2 A 1 A 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 — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	fuse gL/gG: 35 A fuse gL/gG: 20 A fuse gL/gG: 10 A

Installation/ mounting/ dimensions

Mounting position	with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
• Side-by-side mounting	Yes
Height	60 mm
Width	45 mm
Depth	72 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	spring-loaded terminals spring-loaded terminals
Type of connectable conductor cross-sections	
• for main contacts — solid — single or multi-stranded — finely stranded with core end processing	2x (0.25 ... 2.5 mm²) 2x (0,25 ... 2,5 mm²) 2x (0.25 ... 1.5 mm²)

— finely stranded without core end processing	2x (0.25 ... 2.5 mm ²)
• at AWG conductors for main contacts	2x (24 ... 14)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.25 ... 2.5 mm ²)
— single or multi-stranded	2x (0,25 ... 2,5 mm ²)
— finely stranded with core end processing	2x (0.25 ... 1.5 mm ²)
— finely stranded without core end processing	2x (0.25 ... 2.5 mm ²)
• at AWG conductors for auxiliary contacts	2x (24 ... 14)

Safety related data

Failure rate [FIT]

- with low demand rate acc. to SN 31920

100 FIT

Certificates/approvals

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
 CCC	 EAC	 EG-Konf.
 CSA	Baumusterprüfbescheinigung	
 UL		

Test Certificates	Shipping Approval
spezielle Prüfbescheinigungen n	 ABS
	 GL
	 LRS
	 RINA
	 RMRS

other

[Umweltbestätigung](#)

[Bestätigungen](#)

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Further information

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

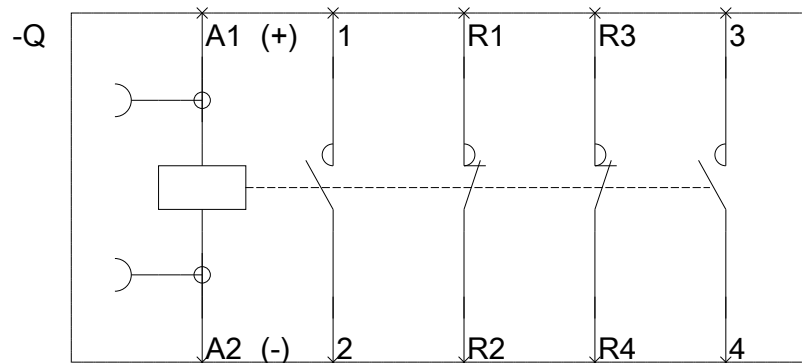
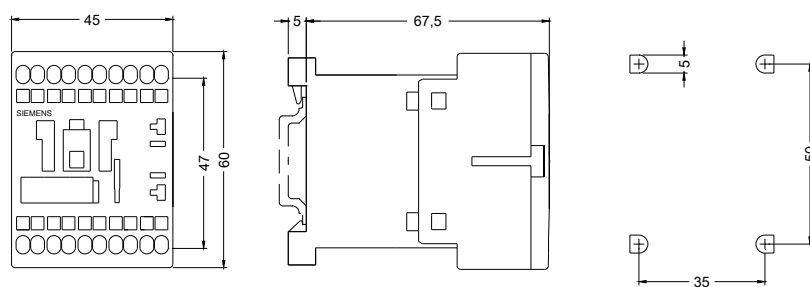
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1517-2BB40-Z X95>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1517-2BB40-Z X95>



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