SIEMENS

Data sheet 3RT2035-1AF00

CONTACTOR,AC3:18.5KW/400V, 1NO+1NC, 110V AC 50HZ, 3-POLE, SIZE S2, SCREW TERMINAL



Figure similar

product brandname	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

General technical data	
Size of contactor	S2
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20

Shock resistance at rectangular impulse at AC 11.8g / 5 ms, 7.4g / 10 ms Shock resistance with sine pulse at AC 18.5g / 5 ms, 11.6g / 10 ms Mechanical service life (switching cycles) 10.000 000 5.000 000 • of the contactor with added electronics-competible auxiliary switch block typical 5.000 000 5.000 000 • of the contactor with added auxiliary switch block typical 10.000 000 5.000 000 Ambient temperature - during operation - 25 +60 °C • during storage - 55 +80 °C Main circuit 3 Number of poles for main current circuit 3 Vumber of NO contacts for main contacts 3 Operating voltage • at AC-3 rated value maximum 690 V Operating current • at AC-1 at 400 V • at AC-1 at 400 V • at AC-1 at 400 V • at AC-2 at 400 V at ambient temperature 40 °C rated value 60 A • at AC-3 • at AC-3 • at AC-3 • at AC-3 at 400 V rated value 40 A • at AC-3 cared value 40 A • at 60 °C minimum permissible 40 M • at 60 °C minimum permissible 16		
■ at AC Shock resistance with sine pulse ■ at AC ■ at AC		IP00
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• of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • during operation • during operation • during storage Amblent temperature • during operation • during storage - 55 +80 °C Main circuit Number of poles for main current circuit 3 Number of NO contacts for main contacts 3 Operating voltage • at AC-3 rated value maximum • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 600 C romectable conductor cross-section in main circuit at AC-1 • at 80 °C minimum permissible • at 40 °C valed value • at 400 V rated value	Mechanical service life (switching cycles)	
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Operating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • 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 — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value 40 A — at 500 V rated value 40 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible 16 mm² • at 40 °C minimum permissible 16 mm² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 22 A • at 690 V rated value 18.5 A	Operating voltage	
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 at ambient temperature 40 °C rated value 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 400 V rated value at AC-3 at 400 V rated value at 690 V rated value at 60 °C minimum permissible at 40 °C minimum perm	Operating current	
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- at 500 V rated value 40 A - at 690 V rated value 24 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible 16 mm² • at 40 °C minimum permissible 16 mm² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 22 A • at 690 V rated value 18.5 A	• at AC-3	
— at 690 V rated value Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible 16 mm² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 18.5 A	— at 400 V rated value	40 A
Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible 16 mm² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 18.5 A	— at 500 V rated value	40 A
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at 40 °C minimum permissible Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 16 mm² 22 A 18.5 A		
Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value	• at 60 °C minimum permissible	16 mm²
cycles at AC-4 • at 400 V rated value • at 690 V rated value 18.5 A	• at 40 °C minimum permissible	16 mm²
• at 690 V rated value 18.5 A		
	• at 400 V rated value	22 A
	• at 690 V rated value	18.5 A
Operating current	Operating current	

• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
Operating power	
• at AC-1	
— at 230 V rated value	23 kW
— at 230 V at 60 °C rated value	

— at 400 V rated value	39 kW
— at 400 V at 60 °C rated value	36 kW
— at 690 V rated value	68 kW
— at 690 V at 60 °C rated value	62 kW
• at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	11.6 kW
• at 690 V rated value	16.8 kW
Thermal short-time current limited to 10 s	400 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	2.2 W
No-load switching frequency	
• at AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	110 V
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1

Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	110 V
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	190 V·A
Apparent holding power of magnet coil at AC	
● at 50 Hz	16 V·A
Closing delay	
• at AC	10 80 ms
Opening delay	
• at AC	10 18 ms
Arcing time	10 20 ms

Auxiliary circuit	
Number of NC contacts	

 for auxiliary contacts 	
 instantaneous contact 	1
Number of NO contacts	
 for auxiliary contacts 	
— instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
● at 500 V rated value	2 A
• at 690 V rated value	1 A
Operating current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
● at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	40 A
• at 600 V rated value	41 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for three-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp

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

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A

fuse gG: 10 A

Mounting position	+/-180° rotation possible on vertical mounting 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 60715
 Side-by-side mounting 	Yes
Height	114 mm
Width	55 mm
Depth	130 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	6 mm
— downwards	50 mm
• for live parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— 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	
 single or multi-stranded 	2x (1 35 mm²), 1x (1 50 mm²)
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
• positively driven operation acc. to IEC 60947-5-	No
1	
T1 value for proof test interval or service life acc. to	20 y
IEC 61508	
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529

Certificates/approvals

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Baumusterprüfbesc heinigung



Test Certificates

Shipping Approval

Typprüfbescheinigu ng/Werkszeugnis

<u>spezielle</u> <u>Prüfbescheinigunge</u> n

SHI





GL



LRS

Shipping Approval

other







Bestätigungen

Umweltbestätigung

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=3RT2035-1AF00

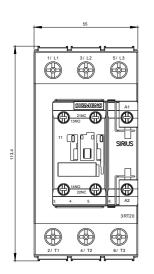
Cax online generator

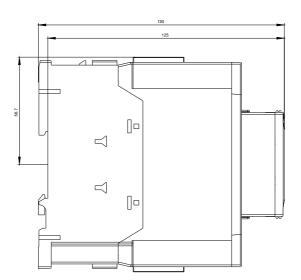
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AF00

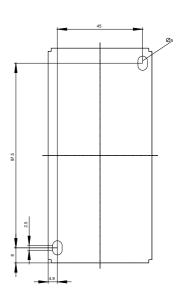
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

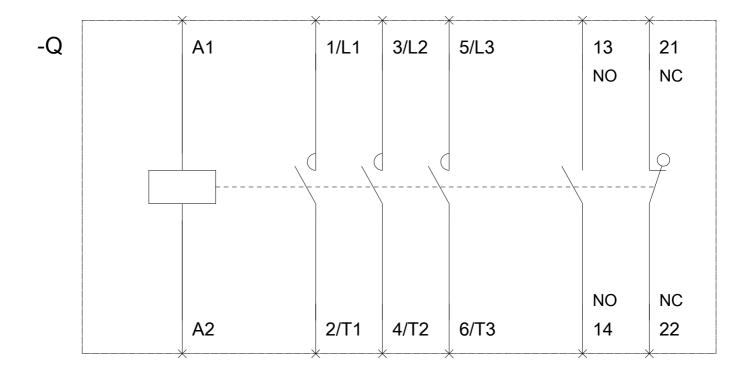
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AF00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1AF00&lang=en









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