SIEMENS

Product data sheet 3RT2035-3AP00



CONTACTOR,AC3:18.5KW/400V, 1NO+1NC, 230V AC 50HZ, 3-POLE, SIZE S2, SPRING-TYPE TERMINAL

General technical data:		
product brand name		SIRIUS
Size of contactor		S2
Product expansion		
Auxiliary switch		Yes
function module for communication		No
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
during operation	°C	-25 +60
Surge voltage resistance / Rated value	kV	6
Insulation voltage / Rated value	V	690
maximum permissible voltage for safe isolation / between coil and main contacts / acc. to EN 60947-1	V	400
Mechanical service life (switching cycles)		
of the contactor / typical		10,000,000
of the contactor with added auxiliary switch block / typical		10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 		5,000,000

Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	mm²	16
• at 60 °C / minimum permissible	mm²	25
Operating current		
• at AC-1 / up to 690 V		
• at ambient temperature 40 °C / Rated value	Α	60
• at ambient temperature 60 °C / Rated value	Α	55
• at AC-2 / at 400 V / Rated value	Α	40
• at AC-3		
• at 400 V / Rated value	Α	40
• at 500 V / Rated value	Α	40
• at 690 V / Rated value	Α	24
• at AC-4 / at 400 V / Rated value	Α	35
Operating current / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / Rated value	Α	22
• at 690 V / Rated value	Α	18.5
Operating current		
• with 1 current path / at DC-1		
• at 24 V / Rated value	Α	55
• at 110 V / Rated value	Α	4.5
• at 220 V / Rated value	Α	2
• at 440 V / Rated value	Α	0.4
• at 600 V / Rated value	Α	0.25
• with 2 current paths in series / at DC-1		
• at 24 V / Rated value	Α	55
• at 110 V / Rated value	Α	45
• at 220 V / Rated value	Α	5
• at 440 V / Rated value	Α	1
• at 600 V / Rated value	Α	0.8
• with 3 current paths in series / at DC-1		
• at 24 V / Rated value	Α	55
• at 110 V / Rated value	Α	45
• at 220 V / Rated value	Α	45
• at 440 V / Rated value	Α	2.9
at 600 V / Rated value	Α	1.4

Operating current		
• with 1 current path / at DC-3 / at DC-5		
at 24 V / Rated value	Α	35
• at 110 V / Rated value	Α	2.5
at 220 V / Rated value	Α	2
• at 440 V / Rated value	Α	0.1
• at 600 V / Rated value	Α	0.06
• with 2 current paths in series / at DC-3 / at DC-5		
at 24 V / Rated value	Α	55
• at 110 V / Rated value	Α	25
at 220 V / Rated value	Α	5
• at 440 V / Rated value	Α	0.27
• at 600 V / Rated value	Α	0.16
• with 3 current paths in series / at DC-3 / at DC-5		
at 24 V / Rated value	Α	55
• at 110 V / Rated value	Α	45
at 220 V / Rated value	Α	25
• at 440 V / Rated value	Α	0.6
• at 600 V / Rated value	Α	0.6
Operating power		
• at AC-1 / at 230 V / Rated value	kW	23
• at AC-1 / at 400 V / Rated value	kW	39
• at AC-1 / at 690 V / Rated value	kW	68
• at AC-2		
at 400 V / Rated value	kW	18.5
• at AC-3		
at 230 V / Rated value	kW	11
• at 400 V / Rated value	kW	18.5
• at 500 V / Rated value	kW	22
at 690 V / Rated value	kW	22
• at AC-4		
• at 400 V / Rated value	kW	18.5
Operating power / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / Rated value	kW	11.6
• at 690 V / Rated value	kW	16.8
Thermal short-time current / restricted to 10 s	Α	400
Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor	W	2.2
No-load switching frequency		

Operating frequency		
• at AC-1 / maximum	1/h	1,200
• at AC-2 / maximum	1/h	750
• at AC-3 / maximum	1/h	1,000
• at AC-4 / maximum	1/h	300

Control circuit/ Control:		
Type of voltage / of the control supply voltage		AC
Control supply voltage		
• with AC / at 50 Hz / Rated value	V	230
Operating range factor control supply voltage rated value / of the magnet coil		
• with AC / at 50 Hz		0.8 1.1
Apparent pick-up power / of the magnet coil / with AC		
• at 50 Hz	V·A	190
Apparent holding power / of the magnet coil / with AC		
• at 50 Hz	V·A	16
Closing delay		
• with AC	ms	10 80
Opening delay		
• with AC	ms	10 18
Arcing time	ms	10 20

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	Α	10
• at AC-15		
• at 230 V / Rated value	Α	10
• at 400 V / Rated value	Α	3
• at 500 V / Rated value	Α	2
• at 690 V / Rated value	Α	1
Operating current / at DC-12		
• at 24 V / Rated value	Α	10
• at 48 V / Rated value	Α	6
• at 60 V / Rated value	Α	6
• at 110 V / Rated value	Α	3
• at 125 V / Rated value	Α	2

mounting position		+/-180° rotation possible on vertical mounting surface;
Installation/ mounting/ dimensions:		
with type of assignment 1 / required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
for short-circuit protection of the main circuit		
for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
Design of the fuse link		
Short-circuit:		
Contact rating / of the auxiliary contacts / acc. to UL		A600 / P600
• at 600 V / Rated value	A	41 A600 / D600
• at 480 V / Rated value	A	40
Full-load current (FLA) / for three-phase AC motor		
• at 575/600 V / Rated value	hp	40
• at 460/480 V / Rated value	hp	30
• at 220/230 V / Rated value	hp	15
• at 200/208 V / Rated value	hp	10
for three-phase AC motor		
• at 230 V / Rated value	hp	7.5
• at 110/120 V / Rated value	hp	3
for single-phase AC motor		
yielded mechanical performance [hp]		
UL/CSA ratings:		
at 600 V / Rated value	Α	0.1
• at 440 V / Rated value	A	0.14
• at 220 V / Rated value	A	0.3
• at 125 V / Rated value	A	0.9
• at 110 V / Rated value	Α	1
• at 60 V / Rated value	Α	2
• at 48 V / Rated value	Α	2
• at 24 V / Rated value	Α	10
Operating current / at DC-13		
• at 600 V / Rated value	Α	0.15
• at 440 V / Rated value	Α	0.3
at 220 V / Rated value	Α	1

Installation/ mounting/ dimensions:		
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 50022
Width	mm	55
Height	mm	113.4

Depth	mm	130
Spacing required / with side-by-side mounting	mm	0

Connections/ terminals:	
Design of the electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	spring-loaded terminals
Type of connectable conductor cross-section	
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)
• for AWG conductors / for main contacts	2x (18 2), 1x (18 1)
Type of connectable conductor cross-section	
for auxiliary contacts	
single or multi-stranded	2x (0,5 2,5 mm²)
finely stranded / with core end processing	2x (0.5 1.5 mm²)
finely stranded / without core end processing	2x (0.5 2.5 mm²)
for AWG conductors / for auxiliary contacts	2x (20 14)

Safety related data:		
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 60947-5-1		No

Certificates/ approvals:

General Product Approval

other





Confirmation

Further information:

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

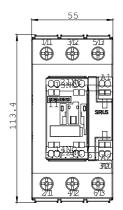
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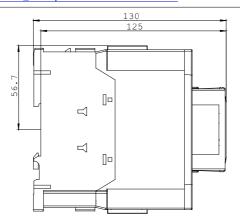
http://www.siemens.com/cax

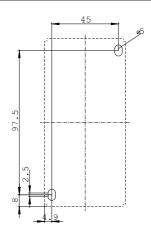
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

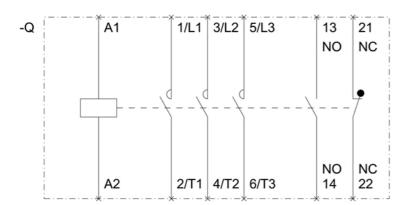
 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3RT2035-3AP00/all}}$

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2035-3AP00









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