

Product data sheet 3RT2026-2AP00

CONTACTOR, AC-3, 11KW/400V, 1NO+1NC, AC 230V 50HZ, 3-POLE, SZ SO SPRING-LOADED TERMINAL

Product brand name		SIRIUS
Product designation		3RT2 contactor
Size of the contactor		SO
Protection class IP / frontal/front side		IP20
Degree of pollution		3
Altitude of installation site / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 80
during the operating phase	°C	-25 60
during transport	°C	-55 80
Resistance against shock		12.5g / 5 ms and 7.8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Resistive loss		
• per conductor / typical	W	1.6
Apparent loss power / of the magnet coil / at AC / typical	V-A	9.8
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		К
• according to DIN EN 61346-2		Q
Mechanical operating cycles as operating time		
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 		10,000,000

Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating voltage / at 3 AC / rated value		

• maximum	V	690
Operating current / at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	Α	40
• at 60 °C ambient temperature / rated value	Α	35
Operating current		
• at AC-2 / at 400 V / rated value	Α	25
• at AC-3 / at 400 V / rated value	Α	25
• at AC-4 / at 400 V / rated value	Α	15.5
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	15
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
Service power		
• at AC-2 / at 400 V / rated value	kW	11
• at AC-3		
• at 400 V / rated value	kW	11
• at 500 V / rated value	kW	11
• at 690 V / rated value	kW	11
• at AC-4 / at 400 V / rated value	kW	7.5
Operating reactive power / at AC-6b		
• at 230 V / rated value	var	0
• at 400 V / rated value	var	0
• at 690 V / rated value	var	0
Off-load operating frequency	1/h	5,000
Switching frequency		
• at AC-1 / according to IEC 60947-6-2 / maximum	1/h	1,000

at AC-2 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	250

Control circuit:		
Design of activation of the operating mechanism		conventional
Type of voltage / of the controlled supply voltage		AC
control supply voltage frequency		
• 1 / rated value	Hz	50
Control supply voltage / 1		
• at 50 Hz / for AC		
• rated value	V	230
Operating range factor control supply voltage rated value / of solenoid		
• at 50 Hz / for AC		0.8 1.1
Apparent pull-in power / of the solenoid / for AC	V-A	77
Apparent holding power / of the solenoid / for AC	V·A	9.8
Power factor inductive		
at pull-in power of the coil		0.82
at holding power of the coil		0.25

	Yes
	1 faulty switching per 100 million (17 V, 1 mA)
	1
	0
	1
	0
Α	10
Α	10
Α	3
Α	6
Α	6
Α	3
Α	1
	A A A A

• at 24 V	Α	6
• at 48 V	Α	2
• at 60 V	Α	2
• at 110 V	Α	1
• at 220 V	Α	0.3

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		
at type of coordination 1 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5S 100 A	E:
• at type of coordination 2 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5S 35A	E:

Installation/mounting/dimensions:		
built in orientation		vertical
Type of fixing/fixation		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Type of fixing/fixation / Series installation		Yes
Width	mm	45
Height	mm	102
Depth	mm	92
distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	0
distance, to be maintained, to earthed part		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
distance, to be maintained, conductive elements		
• forwards	mm	6
• backwards	mm	6
• upwards	mm	6
• downwards	mm	10
• sidewards	mm	6

Connections:	
design of the electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control current circuit	spring-loaded terminals
Type of the connectable conductor cross-section	
• for main contacts	
• unifilar	2x (1 10 mm2)
• stranded wire	2x (1 10 mm2)
• stranded wire	
 with conductor end processing 	2x (1 6 mm2)
without conductor final cutting	2x (1 6 mm2)
• at AWG-conductors / for main contacts	1x (18 8)
for auxiliary contact	
• solid	2x (0.5 2.5 mm2)
• stranded wire	
with wire end processing	2x (0.5 1.5 mm2)
without conductor final cutting	2 x (0.5 1.5 mm2)
 for AWG conductors / for auxiliary contacts 	2x (20 14)

verification of suitability		CE / UL / CSA / CCC
Safety:		
B10 value / with high demand rate		
according to SN 31920		1,000,000
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Proportion of dangerous failures		
with low demand rate / according to SN 31920	%	75
with high demand rate / according to SN 31920	%	75
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	50
Protection against electrical shock		finger-safe

Further information:

Certificates/approvals:

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

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

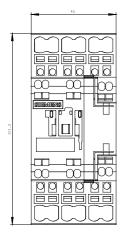
Global Industry Mall (Online ordering system)

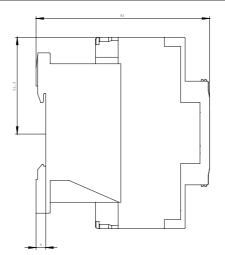
http://www.siemens.com/industrial-controls/mall

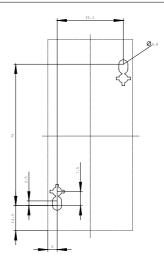
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

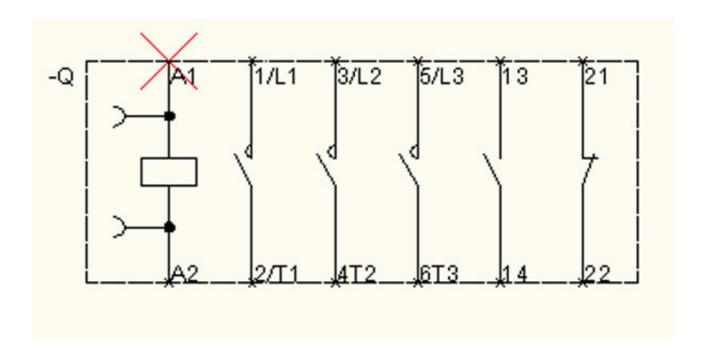
http://support.automation.siemens.com/WW/view/en/3RT2026-2AP00/all

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2026-2AP00









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