SIEMENS



Reference: 3RT2016-1AP01

CONTACTOR, AC-3, 4KW/400V, 1NO, AC 230V, 50/60 HZ, 3-POLE, SZ S00 SCREW TERMINAL

Buy it at Electric Automation Network



product brand name	SIRIUS
Product designation	3RT2 contactor
General technical data:	
Size of contactor	500
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 60947-1	400 V
Protection class IP	
on the front	IP20
of the terminal	IP20
Shock resistance	
at rectangular impulse	
— at AC	6,7g / 5 ms, 4,2g / 10 ms
with sine pulse	
— at AC	10,5g / 5 ms, 6,6g / 10 ms

Mechanical service life (switching cycles) of contactor typical 30 000 000 of the contactor with atd> 5 000 000 of the contactor with atd> 10 000 000 Ambient conditions: Installation altitude at height above sea level maximum 2 000 m Ambient temperature during operation 25 +60 °C during storage -55 +80 °C Main circult: Number of NO contacts for main contacts 3 Number of NO contacts for main contacts 0 Operating voltage -50 +60 °C Operating current -1 at AC-3 rated value maximum 690 V Operating current -1 at AC-1 -1 at 400 V — at ambient temperature 40 °C rated value 22 A at AC-1 -1 up to 690 V at ambient temperature 60 °C rated value 20 A at AC-3 — at 400 V rated value 9 A at AC-3 — at 500 V rated value 7, 7 A — at 500 V rated value 7, 7 A — at 600 V rated value 7, 7 A — at 600 V rated value 7, 7 A — at 600 V rated value 40 °C rated 7, 7 A — at 600 V rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rated value 7, 7 A — at 7 C rat		
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during operation -25 +60 °C during storage -55 +80 °C Main circuit: Number of NO contacts for main contacts 3 Number of NC contacts for main contacts 0 Operating voltage at AC-3 rated value maximum 690 V 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 value 22 A at AC-2 - up to 690 V at ambient temperature 60 °C rated value at AC-3 - at 400 V rated value 9 A at AC-3 - at 400 V rated value 10 - at 500 V rated value 20 A at AC-3 - at 400 V rated value 20 A at AC-1 - at 690 V rated value 20 A at AC-2 in 400 V rated value 20 A at AC-3 - at 400 V rated value 20 A at AC-1 - at 690 V rated value 20 A at 60 °C minimum permissible 40 °C minimum permissible 41 AC-4 41 400 V rated value 41 AC-4 41 400 V rated value 33 A Operating current 41 current path at DC-1 - at 24 V rated value 20 A - at 110 V rated value 21 A	Installation altitude at height above sea level maximum	2 000 m
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at 1 current path at DC-1 — at 24 V rated value 20 A — at 110 V rated value 2.1 A	at 690 V rated value	3.3 A
 at 24 V rated value at 110 V rated value 20 A 2.1 A 	Operating current	
- at 110 V rated value 2.1 A	at 1 current path at DC-1	
	— at 24 V rated value	20 A
— at 220 V rated value 0.8 A	— at 110 V rated value	2.1 A
	— at 220 V rated value	0.8 A

— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
Operating current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
with 2 current paths in series at DC-3 at DC-5	
— at 110 V rated value	0.35 A
— at 24 V rated value	20 A
with 3 current paths in series at DC-3 at DC-5	
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 24 V rated value	20 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
Operating power	
at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V rated value	13 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V rated value	22 kW
— at 690 V at 60 °C rated value	22 kW
at AC-2 at 400 V rated value	4 kW
at AC-3	
— at 230 V rated value	2.2 kW

— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
Operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
Thermal short-time current limited to 10 s	72 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	0.7 W
No-load switching frequency	
at AC	10 000 1/h
Operating frequency	
at AC-1 maximum	1 000 1/h
at AC-2 maximum	750 1/h
at AC-3 maximum	750 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
Operating range factor control supply voltage rated value of magnet coil at AC	
at 50 Hz	0.8 1.1
at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
at 50 Hz	27 V·A
at 60 Hz	31.7 V·A
Inductive power factor with closing power of the coil	
at 50 Hz	0.8
at 60 Hz	0.81
Apparent holding power of magnet coil at AC	
at 50 Hz	4.2 V·A
at 60 Hz	4.8 V·A
Inductive power factor with the holding power of the coil	
at 50 Hz	0.25
at 60 Hz	0.25
Closing delay	
at AC	9 35 ms

Opening delay	
at AC	3.5 14 ms
Arcing time	10 15 ms
Residual current of the electronics for control with signal <0>	
at AC at 230 V maximum permissible	3 mA
at DC at 24 V maximum permissible	10 mA
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	
— instantaneous contact	0
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)

Full lead surrent (FLA) (culture at	
Full-load current (FLA) for three-phase AC motor	
at 480 V rated value	7.6 A
at 600 V rated value	9 A
Yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
for three-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
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
Side-by-side mounting	Yes
Height	58 mm
Witd>	45 mm
Depth	73 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	0 mm
— Backwards	0 mm

— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm
Connections/Terminals:	
Type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG conductors for main contacts	2x (20 16), 2x (18 14), 2x 12
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), 2x 4 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), 2x 12
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 %
Failure rate [FIT]	
with low demand rate acc. to SN 31920	100 FIT
Product function	
Mirror contact acc. to IEC 60947-4-1	Yes; with 3RH29
T1 value for proof test interval or service life acc. to IEC 61508	20 y