



Reference: 3RT2037-3XF40-0LA2

RAIL-CONTACTOR, AC-3, 30KW/400V, 1NO+1NC, 110VDC, 0.7...1.25*US, WITH VARISTOR, 3-POLE, SIZE S2, SPRING-TYPE TERMINAL

Buy it at Electric Automation Network



product brand name	SIRIUS
Product designation	3RT2 contactor
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 60947-1	400 V
Protection class IP	
on the front	IP20
of the terminal	IP00
Shock resistance	
at rectangular impulse	
— at DC	7.7g / 5 ms, 4.5g / 10 ms
with sine pulse	
— at DC	12g / 5 ms, 7g / 10 ms

Mechanical service life (switching cycles)	
of contactor typical	10 000 000
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	-40 +70 °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	80 A
at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated value	70 A
at AC-2 at 400 V rated value	65 A
at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
Connectable conductor cross-section in main circuit at AC-1	
at 60 °C minimum permissible	25 mm²
at 40 °C minimum permissible	25 mm²
Operating current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	28 A
at 690 V rated value	22 A
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 110 V rated value	25 A
— at 220 V rated value	5 A
— at 24 V rated value	55 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 110 V rated value	55 A
— at 220 V rated value	25 A
— at 24 V rated value	55 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	30 kW
— at 230 V at 60 °C rated value	26 kW
— at 400 V rated value	53 kW

— at 400 V at 60 °C rated value	46 kW
— at 690 V rated value	91 kW
— at 690 V at 60 °C rated value	79 kW
at AC-2 at 400 V rated value	30 kW
at AC-3	30 80
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4	37 kW
at 400 V rated value	14.7 kW
at 690 V rated value	20 kW
Thermal short-time current limited to 10 s	520 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	3.8 W
No-load switching frequency	
at DC	1 500 1/h
Operating frequency	
at AC-1 maximum	800 1/h
at AC-2 maximum	400 1/h
at AC-3 maximum	700 1/h
at AC-4 maximum	200 1/h
Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
rated value	110 V
Operating range factor control supply voltage rated value of magnet coil at DC	0.7 1.25
Design of the surge suppressor	with varistor
Closing power of magnet coil at DC	23 W
Holding power of magnet coil at DC	1 W
Closing delay	
at DC	45 60 ms
Opening delay	
at DC	35 55 ms
Arcing time	10 20 ms
Residual current of the electronics for control with signal <0>	
at DC at 24 V maximum permissible	20 mA

Number of NC contacts 1 - 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 500 V rated value 3 A at 500 V rated value 1 A Operating current at DC-12 - at 24 V rated value 10 A at 690 V rated value 6 A at 100 V rated value 6 A at 110 V rated value 3 A at 220 V rated value 1 A at 220 V rated value 1 A at 2600 V rated value 1 A at 24 V rated value 10 A at 48 V rated value 10 A at 24 V rated value 10 A at 24 V rated value 10 A at 24 V rated value 10 A at 25 V rated value 2 A at 100 V rated value 1 A at 25 V rated value 0.3 A	Auxiliary circuit:	
— instantaneous contacts 1 Number of NO contacts — instantaneous contact — instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 — instantaneous contact at 230 V rated value 10 A at 400 V rated value 3 A at 500 V rated value 1 A Operating current at DC-12 — in 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 1 A at 220 V rated value 1 A at 220 V rated value 1 A at 600 V rated value 1 DA at 4 V rated value 1 OA at 4 V rated value 1 OA at 600 V rated value 2 A at 110 V rated value 2 A at 110 V rated value 1 A at 125 V rated value 0.3 A at 125 V rated value 0.3 A at 200 V rated value 0.1 A Contact reliability of auxiliary contacts 1 faulty swit	Number of NC contacts	
Number of NO contacts For auxiliary contacts For auxiliary contacts To	for auxiliary contacts	
rinstantaneous 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 2A at 690 V rated value 1A Operating current at DC-12 at 24 V rated value 1A at 80 V rated value 6A at 60 V rated value 6A at 110 V rated value 3A at 125 V rated value 1A at 125 V rated value 3A at 24 V rated value 3A at 24 V rated value 3A at 24 V rated value 3A at 125 V rated value 3A at 126 V rated value 3A at 127 V rated value 3A at 128 V rated value 3A at 129 V rated value 3A at 120 V ra	— instantaneous contact	1
— instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 10 A at 230 V rated value 10 A at 500 V rated value 2 A at 690 V rated value 1 A Operating current at DC-12 10 A at 24 V rated value 6 A at 60 V rated value 6 A at 100 V rated value 3 A at 125 V rated value 2 A at 125 V rated value 1 A at 220 V rated value 1 A at 600 V rated value 0.15 A Operating current at DC-13 10 A at 24 V rated value 10 A at 60 V rated value 2 A at 110 V rated value 1 A at 20 V rated value 0.9 A at 220 V rated value 0.3 A at 200 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 65 A	Number of NO contacts	
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at 500 V rated value 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 110 V rated value 3 A at 125 V rated value 1 A to 60 V rated value 10 A at 24 V rated value 10 A at 48 V rated value 2 A at 110 V rated value 2 A at 110 V rated value 1 A to 60 V rated value 1 A to 60 V rated value 2 A at 110 V rated value 1 A to 110 V rated value 1 A to 125 V rated value 1 A to 125 V rated value 1 A to 20 V rated value 1 A to 125 V rated value 1 A to 120 V rated value 1 A to 600 V rated value 5 A to 600 V rated value 5 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 5 hp	at 230 V rated value	10 A
at 690 V rated value 10 A Operating current at DC-12 at 24 V rated value 10 A at 48 V rated value 6 A at 10 V rated value 3 A at 110 V rated value 2 A at 125 V rated value 1 A at 220 V rated value 1 A at 600 V rated value 10 A 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 2 A at 110 V rated value 1 A at 110 V rated value 1 A at 125 V rated value 1 A at 125 V rated value 1 A at 110 V rated value 1 A at 125 V rated value 1 A at 220 V rated value 1 A at 220 V rated value 1 A at 600 V rated value 1 A bull-Cost ratings: Full-load current (FLA) for three-phase AC motor 1 A at 480 V rated value 55 A st 600 V rated value 55 A yielded mechanical performance [hp] for single-phase AC motor 5 hp	at 400 V rated value	3 A
Operating current at DC-12 at 24 V rated value	at 500 V rated value	2 A
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at 48 V rated value at 60 V rated value 3 A at 110 V rated value 3 A at 125 V rated value 2 A at 220 V rated value 1 A outs 600 V rated value 2 A at 600 V rated value 3 A outs 600 V rated value 1 DC-13 at 24 V rated value 2 A at 48 V rated value 3 A at 48 V rated value 4 DO-13 at 48 V rated value 5 A at 110 V rated value 1 A at 125 V rated value 1 A at 20 V rated value 3 A at 600 V rated value 4 DO-9 A at 200 V rated value 5 DO-14 at 600 V rated value 65 A at 600 V rated value 65 A at 600 V rated value 55 A at 600 V rated value 55 hp	Operating current at DC-12	
at 60 V rated value 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 110 V rated value 2 A at 110 V rated value 3 D.9 A at 220 V rated value 4 D.9 A at 220 V rated value 5 V rated value 6 D.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 5 D.4 Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 24 V rated value	10 A
at 110 V rated value at 125 V rated value 1 A at 220 V rated value 1 A operating current at DC-13 at 24 V rated value 1 10 A at 600 V rated value 2 A at 600 V rated value 1 10 A at 60 V rated value 2 A at 110 V rated value 1 A at 125 V rated value 1 A at 125 V rated value 2 A at 110 V rated value 3 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 52 A Yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 5 hp	at 48 V rated value	6 A
at 125 V rated value 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 110 V rated value 1 A at 125 V rated value 0.9 A at 220 V rated value 0.3 A at 220 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 55 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 60 V rated value	6 A
at 220 V rated value 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 10 V rated value 1 A at 125 V rated value 0.9 A at 220 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 55 A Yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 5 hp	at 110 V rated value	3 A
Operating current at DC-13 at 24 V rated value 10 A at 48 V rated value 2 A at 110 V rated value 1 A at 125 V rated value 1 A at 600 V rated value 2 A at 125 V rated value 3 A 4 600 V rated value 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 5 A Yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 5 hp	at 125 V rated value	2 A
at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 220 V rated value 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 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 220 V rated value	1 A
at 24 V rated value 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 0.1 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 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 5 hp	at 600 V rated value	0.15 A
at 48 V rated value 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 0.1 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 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	Operating current at DC-13	
at 60 V rated value at 110 V rated value 1 A at 125 V rated value 0.9 A at 220 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 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 24 V rated value	10 A
at 110 V rated value at 125 V rated value o.9 A at 220 V rated value o.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 o5 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 48 V rated value	2 A
at 125 V rated value 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 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 60 V rated value	2 A
at 220 V rated value 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 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 110 V rated value	1 A
at 600 V rated value 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 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 125 V rated value	0.9 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 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 220 V rated value	0.3 A
UL/CSA ratings: Full-load current (FLA) for three-phase AC motor at 480 V rated value 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 600 V rated value	0.1 A
Full-load current (FLA) for three-phase AC motor at 480 V rated value 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
at 480 V rated value 65 A at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	UL/CSA ratings:	
at 600 V rated value 52 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	Full-load current (FLA) for three-phase AC motor	
Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp	at 480 V rated value	65 A
for single-phase AC motor — at 110/120 V rated value 5 hp	at 600 V rated value	52 A
— at 110/120 V rated value 5 hp	Yielded mechanical performance [hp]	
	for single-phase AC motor	
— at 230 V rated value 10 hp	— at 110/120 V rated value	5 hp
	— at 230 V rated value	10 hp

for three-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 hp
Contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
Design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A
— with type of assignment 2 required	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
Installation/ mounting/ dimensions:	
Mounting position	\pm +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by \pm -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	114 mm
Witd>	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	screw-type terminals
for auxiliary and control current circuit	spring-loaded 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 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)
at AWG conductors for auxiliary contacts	2x (20 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 60947-5-1	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y