



Reference: 3RT2024-4XJ40-0LA2

CONT. F. RAILW. A., AC-3, 5,5KW/400V, 1NO+1NC, W.SOLID-STATE OPERATING MECHANI DC 72V, 0,7...1,25*US, M. VARISTOR INTEGRATED, 3-POLE SIZE S0, RING-LUG CONN

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product brand name	SIRIUS
·	
Product designation	3RT2 contactor
General technical data:	
Size of contactor	50
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	IP00
of the terminal	IP00
Shock resistance	
at rectangular impulse	
— at DC	10g / 5 ms, 7,5g / 10 ms
with sine pulse	
— at DC	15g / 5 ms, 10g / 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	40 A
at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	40 A
— up to 690 V at ambient temperature 60 $^{\circ}$ C rated value	35 A
at AC-2 at 400 V rated value	12 A
at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
Connectable conductor cross-section in main circuit at AC-1	
at 60 °C minimum permissible	10 mm²
at 40 °C minimum permissible	10 mm²
Operating current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	5.5 A
at 690 V rated value	5.5 A
Operating current	
at 1 current path at DC-1	
— at 24 V rated value	35 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	35 A
— at 110 V rated value	35 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 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	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	15 A
— at 220 V rated value	3 A
— at 24 V rated value	35 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	35 A
— at 220 V rated value	10 A
— at 24 V rated value	35 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
Operating power	
at AC-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V rated value	23 kW

- at 400 V at 60 °C rated value		
at 690 V at 60 °C rated value	— at 400 V at 60 °C rated value	23 kW
at AC-2 at 400 V rated value at AC-3 — at 230 V rated value — at 400 V rated value — at 690 V rated value 2.6 kW at 690 V rated value 2.6 kW Thermal short-time current limited to 10 s — 110 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at DC — 1 500 1/h Thermal short-time current limited to 10 s — 1 500 1/h 1 500 1/h 1 500 1/h 1 1 000 1/h at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-4 maximum 200 1/h Control circuit/ Control: Type of voltage of the control supply voltage Control supply voltage at DC rated value — 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor with varistor Closing power of magnet coil at DC Design of the surge suppressor with varistor Closing delay at DC Dening delay at DC 5 9 W Residual current of the electronics for control with signal col> at AC at 230 V maximum permissible 6 mA	— at 690 V rated value	40 kW
at AC-3 — at 230 V rated value 3 kW — at 400 V rated value 7.5 kW Operating power for approx. 200000 operating cycles at AC-4 8 kW at 400 V rated value 2.6 kW at 400 V rated value 4.6 kW Thermal short-time current limited to 10 s 110 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 1 to 5 kW No-load switching frequency 1 to 50 l/h No-load switching frequency 1 to 90 l/h at AC-1 maximum 1 to 90 l/h at AC-3 maximum 1 to 90 l/h at AC-4 maximum 300 l/h Control circuit/ Control: Type of voltage of the control supply voltage DC Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of the surge suppressor with varistor Closing power of magnet coil at DC 5.9 W Holding power of magnet coil at DC 5.9 W Closing delay at DC poening delay 15 17.5 ms Arcing time 8.6 kW Example 10 lime 10 ms Residual current of the electronics for control with signal 40 cm AC 10 ms Example 10 ms Type 30 lime 8.6 kW Type 30 lime 10 ms Type 30 lime 10 ms Type 30 lime 10 ms	— at 690 V at 60 °C rated value	40 kW
at 230 V rated value 5.5 kW - at 690 V rated value 7.5 kW Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 2.6 kW at 400 V rated value 4.6 kW Thermal short-time current limited to 10 s 110 A Power loss IWI at AC-3 at 400 V for rated value of the operating frequency at AC-1 maximum 1 000 1/h of AC-2 maximum 1 000 1/h at AC-2 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-3 maximum 300 1/h Control circuit/ Control: Type of voltage of the control supply voltage DC Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor with varistor Closing power of magnet coil at DC Losing delay at DC at DC Arcing time 15 17.5 ms Residual current of the electronics for control with signal cD> at AC-2 130 V maximum permissible 6 mA	at AC-2 at 400 V rated value	5.5 kW
- at 400 V rated value 7.5 kW - at 690 V rated value 7.5 kW Operating power for approx. 200000 operating cycles at AC-4 2.6 kW at 400 V rated value 2.6 kW at 690 V rated value 4.5 kW Thermal short-time current limited to 10 s 110 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 0.5 W No-load switching frequency 2 at DC 1 500 1/h Operating frequency 1 1 000 1/h at AC-1 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-3 maximum 300 1/h Control circuit/ Control: Type of voltage of the control supply voltage DC Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC 5.9 W Holding power of magnet coil at DC 5.9 W Closing delay 3t DC Arcing time 10 10 ms Residual current of the electronics for control with signal co> at AC at 230 V maximum permissible 6 mA	at AC-3	
The at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value 2.6 kW Thermal short-time current limited to 10 s 110 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at DC 1 500 1/h Operating frequency at AC-1 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-3 maximum 1 000 1/h Control circuit/ Control: Type of voltage of the control supply voltage DC Control supply voltage at DC rated value Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor with varistor Closing power of magnet coil at DC S.9 W Holding power of magnet coil at DC Opening delay at DC Opening delay at DC Opening delay at DC Arcing time Residual current of the electronics for control with signal <0>	— at 230 V rated value	3 kW
AC-4 at 400 V rated value at 690 V rated value 4.6 kW Thermal short-time current limited to 10 s 110 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at DC 1 500 1/h Operating frequency at AC-1 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-4 maximum 2 No-10ad supply voltage DC Control supply voltage at DC rated value Operating range factor control supply voltage rated value Operating range factor control supply voltage rated value Operating range factor control supply voltage rated value Operating range factor control at DC Design of the surge suppressor with varistor Closing power of magnet coil at DC Colosing delay at DC Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> control with unique maximum permissible 6 mA	— at 400 V rated value	5.5 kW
at 400 V rated value at 690 V rated value 4.6 kW Thermal short-time current limited to 10 s 110 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at DC 1 500 1/h Operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-4 maximum 20 1/h Control circuit/ Control: Type of voltage of the control supply voltage DC Control supply voltage at DC rated value Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor with varistor Closing power of magnet coil at DC 5.9 W Holding power of magnet coil at DC Closing delay at DC Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the electronics for control with signal <0> control current of the current of the electronics for control with signal <0> control current of	— at 690 V rated value	7.5 kW
at 690 V rated value Thermal short-time current limited to 10 s 110 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at DC 1 500 1/h Operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 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 Control supply voltage at DC rated value Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor With varistor Closing power of magnet coil at DC 5.9 W Holding power of magnet coil at DC Coloning delay at DC Opening delay at DC 15 17.5 ms Arcing time Residual current of the electronics for control with signal colonic at 230 V maximum permissible 6 mA		
Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at DC 1 500 1/h Operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 1/h at AC-3 maximum 1 000 1/h At AC-4 maximum 1 000 1/h Control circuit/ Control: Type of voltage of the control supply voltage Control supply voltage at DC rated value Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor With varistor Closing power of magnet coil at DC So 170 ms Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> Control supplu valuum permissible 6 mA	at 400 V rated value	2.6 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at DC 1 500 1/h Operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-4 maximum 3 00 1/h Control circuit/ Control: Type of voltage of the control supply voltage Control supply voltage at DC rated value Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor With varistor Closing power of magnet coil at DC Closing delay at DC Closing delay at DC Arcing time Residual current of the electronics for control with signal <0> C mA	at 690 V rated value	4.6 kW
operating current per conductor No-load switching frequency at DC 1 500 1/h Operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 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 DC Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor Closing power of magnet coil at DC Holding power of magnet coil at DC S.9 W Closing delay at DC So 170 ms Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> CO> at AC at 230 V maximum permissible 6 mA	Thermal short-time current limited to 10 s	110 A
at DC Operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 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 Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor with varistor Closing power of magnet coil at DC Holding power of magnet coil at DC 5.9 W Closing delay at DC Opening delay at DC Arcing time 10 10 ms Residual current of the electronics for control with signal <0> Clos mA		0.5 W
Operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 1 000 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 DC Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor with varistor Closing power of magnet coil at DC Holding power of magnet coil at DC 5.9 W Closing delay at DC Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> An AC at 230 V maximum permissible 6 mA	No-load switching frequency	
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at AC-2 maximum at AC-3 maximum at AC-4 maximum 300 1/h Control circuit/ Control: Type of voltage of the control supply voltage Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay at DC Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> An MA AC at 230 V maximum permissible 6 mA	Operating frequency	
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at AC-4 maximum Control circuit/ Control: Type of voltage of the control supply voltage Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay at DC Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible DC DC T2 V 0.7 1.25 With varistor 5.9 W 5.9 W 5.9 W 10 170 ms 10 170 ms 10 10 ms	at AC-2 maximum	1 000 1/h
Type of voltage of the control supply voltage Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay at DC Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible DC 72 V 0.7 1.25 0.7 1.25 With varistor 5.9 W 5.9 W 5.9 W 1.0 170 ms 6 mA	at AC-3 maximum	1 000 1/h
Type of voltage of the control supply voltage Control supply voltage at DC rated value 72 V Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay at DC Opening delay at DC 15 17.5 ms Arcing time Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible Opening delay at AC at 230 V maximum permissible	at AC-4 maximum	300 1/h
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Operating range factor control supply voltage rated value of magnet coil at DC Design of the surge suppressor Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay at DC Opening delay at DC 15 17.5 ms Arcing time Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 0.7 1.25 with varistor 5.9 W 5.9 W 15 170 ms 6 mA	Control supply voltage at DC	
value of magnet coil at DC Design of the surge suppressor Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay at DC Opening delay at DC Arcing time Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 0.7 1.23 with varistor 5.9 W 5.9 W 5.9 W 1.0 170 ms 1.0 170 ms 6 mA	rated value	72 V
Closing power of magnet coil at DC Holding power of magnet coil at DC 5.9 W Closing delay at DC 50 170 ms Opening delay at DC 15 17.5 ms Arcing time Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 6 mA		0.7 1.25
Holding power of magnet coil at DC Closing delay at DC 50 170 ms Opening delay at DC 15 17.5 ms Arcing time 10 10 ms Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 6 mA	Design of the surge suppressor	with varistor
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at DC 50 170 ms Opening delay at DC 15 17.5 ms Arcing time 10 10 ms Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 6 mA	Holding power of magnet coil at DC	5.9 W
Opening delay at DC	Closing delay	
at DC 15 17.5 ms Arcing time 10 10 ms Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 6 mA	at DC	50 170 ms
Arcing time 10 10 ms Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 6 mA	Opening delay	
Residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible 6 mA	at DC	15 17.5 ms
<0> at AC at 230 V maximum permissible 6 mA	Arcing time	10 10 ms
at DC at 24 V maximum permissible 16 mA	at AC at 230 V maximum permissible	6 mA
	at DC at 24 V maximum permissible	16 mA

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	11 A
at 600 V rated value	11 A
Yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp

for three-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 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: 63 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 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	85 mm
Witd>	45 mm
Depth	107 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	ring cable connection
for auxiliary and control current circuit	ring cable connection
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
T1 value for proof test interval or service life acc. to IEC 61508	20 y