



Automation specialists

Reference: 3RT2017-2LB42-1AA0

COUPLING CONTACTOR RAIL, AC3:5.5KW,DC24V,0,7...1,25*US, 1NC, VARISTOR INTEGRATED, 3-POLE, SZ S00 SPRING-LOADED TERMINAL UPRIGHT MOUNTING POSITION

Buy it at Electric Automation Network



product brand name	SIRIUS
Product designation	Coupling relay
General technical data:	
Size of contactor	500
Product extension	
function module for communication	No
Auxiliary switch	No
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 DC	7.3g / 5 ms, 4.7g / 10 ms
with sine pulse	
— at DC	11,4g / 5 ms, 7,3g / 10 ms

Mechanical service life (switching cycles)	
of contactor typical	30 000 000
Ambient conditions:	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
during operation	-40 +70 °C
during operation Note	Railway application: -40 70 °C with 10 mm clearance. See catalog for other rated conditions
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 	22 A
at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 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	9.2 A
— at 690 V rated value	6.7 A
Connectable conductor cross-section in main circuit at AC-1	
at 60 °C minimum permissible	2.5 mm ²
at 40 °C minimum permissible	4 mm ²
Operating current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
Operating current	
at 1 current path at DC-1	
— at 24 V rated value	20 A
- at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A

- at 440 V rated value0.6 A- at 600 V rated value0.6 Awith 2 current paths in series at DC-120 A- at 210 V rated value1.6 A- at 240 V rated value0.8 A- at 600 V rated value0.7 A- at 600 V rated value0.7 A- at 400 V rated value0.7 A- at 400 V rated value0.7 A- at 24V rated value0.7 A- at 400 V rated value0.7 A- at 24V rated value10 A- at 24V rated value13 A- at 400 V rated value13 A- at 400 V rated value0.7 A- at 400 V rated value0.7 A- at 400 V rated value1.3 A- at 400 V rated value0.7 A- at 400 V rated value0.7 A- at 110 V rated value0.7 A- at 110 V rated value0.7 A- at 400 V rated value0.7 A- at 110 V rated value0.7 A- at 400 V rated value <th></th> <th></th>		
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- at 440 V rated value0.8 A- at 600 V rated value0.7 AWith 3 current paths in series at DC-120 A- at 24 V rated value20 A- at 110 V rated value20 A- at 420 V rated value1.3 A- at 600 V rated value1.4Operating current1.4- at 24 V rated value0.0 A- at 10 V rated value0.1 AOperating current0.1 A- at 110 V rated value0.35 A- at 110 V rated value0.35 A- at 110 V rated value20 A- at 110 V rated value0.35 A- at 110 V rated value0.35 A- at 110 V rated value0.2 A- at 110 V rated value0.2 A- at 24 V rated value0.2 A- at 110 V rated value0.2 A- at 24 V rated value1.5 A- at 24 V rated value0.2 A- at 400 V rated value0.2 A- at 400 V rated value1.5 kW- at 400 V rated value2.2 kW- at 400 V rated value1.5 kW- at 600 V rated value	— at 110 V rated value	12 A
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- 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 100 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 0.35 A - at 24 V rated value 20 A with 3 current paths in series at DC-3 at DC-5 - - at 210 V rated value 20 A - at 220 V rated value 20 A - at 40 V rated value 20 A - at 40 V rated value 0.2 A - at 410 V rated value 0.2 A - at 420 V rated value 7.5 kW - at 420 V rated value 7.5 kW - at 400 V rated value 13 kW - at 400 V rated value 22 kW - at 400 V rated value	— at 24 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 0.35 A - at 24 V rated value 20 A with 3 current paths in series at DC-3 at DC-5 - - at 210 V rated value 20 A - at 220 V rated value 20 A - at 40 V rated value 20 A - at 40 V rated value 0.2 A - at 400 V rated value 0.2 A - at 400 V rated value 7.5 KW - at 230 V rated value 1.3 kW - at 400 V rated value 13 kW - at 400 V rated value 22 kW - at 400 V rated value 22 kW - at 400 V rated value 5.5 kW	— at 110 V rated value	20 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 0.35 A - at 24 V rated value 20 A with 3 current paths in series at DC-3 at DC-5 - - at 24 V rated value 20 A - at 24 V rated value 20 A - at 24 V rated value 20 A - at 220 V rated value 20 A - at 24 V rated value 0.2 A - at 440 V rated value 0.2 A Operating power - - at 230 V rated value 7.5 kW - at 230 V rated value 13 kW - at 400 V rated value 13 kW - at 690 V rated value 22 kW - at 690 V rated value 5.5 kW	— at 220 V rated value	20 A
Operating currentImage: Constraint of the	— at 440 V rated value	1.3 A
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- 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 24 V rated value 20 A - at 20 V rated value 20 A - at 20 V rated value 20 A - at 220 V rated value 20 A - at 24 V rated value 20 A - at 24 V rated value 20 A - at 20 V rated value 0.2 A - at 600 V rated value 0.2 A Operating power - - at 230 V rated value 7.5 kW - at 230 V rated value 13 kW - at 230 V rated value 13 kW - at 400 V rated value 22 kW - at 690 V rated value 22 kW - at 690 V rated value 5.5 kW	Operating current	
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with 2 current paths in series at DC-3 at DC-5	— at 24 V rated value	20 A
- 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 110 V rated value 20 A - at 220 V rated value 20 A - at 24 V rated value 0.2 A - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A Operating power 0.2 A at AC-1 - - at 230 V rated value 0.2 A - at 230 V rated value 0.2 A - at 230 V rated value 0.2 A - at 230 V rated value 1.5 kW - at 230 V rated value 7.5 kW - at 400 V rated value 13 kW - at 400 V rated value 13 kW - at 690 V rated value 22 kW - at 690 V rated value 22 kW - at 690 V rated value 5.5 kW	— at 110 V rated value	0.1 A
- at 24 V rated value 20 A with 3 current paths in series at DC-3 at DC-5 20 A - at 110 V rated value 20 A - at 220 V rated value 1.5 A - at 24 V rated value 0.2 A - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A Operating power 0.2 A at AC-1 - - at 230 V rated value 0.2 A - at 230 V rated value 0.2 A - at 230 V rated value 0.2 A - at 230 V rated value 1.5 KW - at 400 V rated value 2.5 KW - at 400 V rated value 22 kW - at 690 V rated value 22 kW - at 690 V rated value 5.5 kW	with 2 current paths in series at DC-3 at DC-5	
with 3 current paths in series at DC-3 at DC-5 20 A - at 110 V rated value 20 A - at 220 V rated value 1.5 A - at 24 V rated value 20 A - at 24 V rated value 0.2 A - at 600 V rated value 0.2 A Operating power 0.2 A at AC-1 - - at 230 V rated value 7.5 kW - at 230 V rated value 13 kW - at 400 V rated value 22 kW - at 690 V rated value 22 kW - at 690 V rated value 55 kW	— at 110 V rated value	0.35 A
- at 110 V rated value 20 A - at 220 V rated value 1.5 A - at 24 V rated value 20 A - at 24 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 rated value 1.3 kW - at 400 V rated value 1.3 kW - at 400 V rated value 22 kW - at 690 V rated value 5.5 kW	— at 24 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 rated value 13 kW - at 400 V rated value 13 kW - at 600 V rated value 22 kW - at 690 V rated value 22 kW at AC-2 at 400 V rated value 5.5 kW	with 3 current paths in series at DC-3 at DC-5	
- 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 rated value 13 kW - at 400 V rated value 13 kW - at 600 V rated value 22 kW - at 600 V rated value 5.5 kW	— at 110 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 13 kW - at 400 V rated value 13 kW - at 690 V rated value 22 kW at AC-2 at 400 V rated value 5.5 kW	— at 220 V rated value	1.5 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 13 kW - at 400 V rated value 13 kW - at 690 V rated value 22 kW - at 690 V rated value 5.5 kW	— at 24 V rated value	20 A
Operating power Image: Comparison of the state of the st	— at 440 V rated value	0.2 A
at AC-1 7.5 kW - 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 600 V rated value 13 kW - at 690 V rated value 22 kW at AC-2 at 400 V rated value 5.5 kW	— at 600 V rated value	0.2 A
- 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 rated value 5.5 kW at AC-2 at 400 V rated value 5.5 kW	Operating power	
- 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 5.5 kW	at AC-1	
- 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 5.5 kW	— at 230 V rated value	7.5 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 5.5 kW	— at 230 V at 60 °C rated value	7.5 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 5.5 kW at AC-3	— at 400 V rated value	13 kW
- at 690 V at 60 °C rated value 22 kW at AC-2 at 400 V rated value 5.5 kW at AC-3	— at 400 V at 60 °C rated value	13 kW
at AC-2 at 400 V rated value 5.5 kW at AC-3	— at 690 V rated value	22 kW
at AC-3	— at 690 V at 60 °C rated value	22 kW
	at AC-2 at 400 V rated value	5.5 kW
- at 230 V rated value 3 kW	at AC-3	
	— at 230 V rated value	3 kW

— at 400 V rated value	5.5 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	90 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	1.2 W
No-load switching frequency	
at DC	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	DC
Control supply voltage at DC	
rated value	24 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	2.8 W
Holding power of magnet coil at DC	2.8 W
Closing delay	
at DC	30 100 ms
Opening delay	
at DC	7 13 ms
Arcing time	10 15 ms
Residual current of the electronics for control with signal <0>	
at AC at 230 V maximum permissible	4 mA
at DC at 24 V maximum permissible	10 mA
Auxiliary circuit:	
Number of NC contacts	
for auxiliary contacts	
— instantaneous contact	
	1
Number of NO contacts	1

— instantaneous contact	0
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	0.5 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

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: 50 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	standing, on horizontal 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	70 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	spring-loaded terminals
for auxiliary and control current circuit	spring-loaded terminals
Type of connectable conductor cross-sections	

for main contacts	
— solid	2x (0.5 4 mm²)
— single or multi-stranded	2x (0,5 4 mm²)
- finely stranded with core end processing	2x (0.5 2.5 mm²)
- finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG conductors for main contacts	2x (20 12)
Type of connectable conductor cross-sections	
for auxiliary contacts	
— single or multi-stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
- finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG conductors for auxiliary contacts	2x (20 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
T1 value for proof test interval or service life acc. to IEC 61508	20 у