Data sheet

Traction contactor, AC-3 17 A, $7.5 \, kW / 400 \, V$ 1 NO + 1 NC with electronic drive 24 V DC, 0.7- 1.25^* US, with integrated varistor, 3-pole, Size S0, Spring-type terminal



Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

General technical data	
Size of contactor	S0
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
Surge voltage resistance	
of main circuit rated value	6 kV
• of auxiliary circuit 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	10g / 5 ms, 7,5g / 10 ms
Shock resistance 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 added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN EN 81346-2	Q
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 poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
 at AC-3 rated value maximum 	690 V
Operating current	
● at AC-1 at 400 V	
— rated value	40 A
— 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 $^{\circ}\text{C}$ rated value	35 A
• at AC-2 at 400 V rated value	17 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
Connectable conductor cross-section in main circuit	
at AC-1	

• at 40 °C minimum permissible Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 7.7 A • at 690 V rated value 7.7 A Operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 240 V rated value — at 240 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 25 A — at 27 V rated value — at 28 V rated value — at 400 V rated value — at 200 V rated value — at 400 V rated value — at 25 A — at 220 V rated value — at 20 V rated value — at 20 V rated value — at 400 V rated	inimum permissible 10 n	m²
cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 1 current path at DC-1	inimum permissible 10 r	m²
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- at 220 V rated value		
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 with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value 15 A 	V rated value 0.09	A
 at 24 V rated value at 110 V rated value 15 A 	V rated value 0.06	A
— at 110 V rated value 15 A	ent paths in series at DC-3 at DC-5	
	V rated value 35 A	
— at 220 V rated value 3 A	V rated value 15 A	
	V rated value 3 A	
— at 440 V rated value 0.27 A	V rated value 0.27	A
— at 600 V rated value 0.16 A	V rated value 0.16	A
• with 3 current paths in series at DC-3 at DC-5	ent paths in series at DC-3 at DC-5	
— at 24 V rated value 35 A	√ rated value 35 A	
— at 110 V rated value 35 A	V rated value 35 A	

— at 220 V rated value	10 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 at 60 °C rated value	13.3 kW
— at 400 V rated value	23 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V at 60 °C rated value	40 kW
• at AC-2 at 400 V rated value	7.5 kW
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	3.5 kW
• at 690 V rated value	6 kW
Thermal short-time current limited to 10 s	150 A
Power loss [W] at AC-3 at 400 V for rated value of	0.9 W
the operating current per conductor	
No-load switching frequency	
• at DC	1 500 1/h
Ratings for railway applications	
Thermal current (Ith) up to 690 V	
 up to 40 °C according to IEC 60077 rated value 	40 A
• up to 70 °C according to IEC 60077 rated value	30 A
Connectable conductor cross-section in main circuit	
 up to 40 °C according to IEC 60077 rated value minimum permissible 	10 mm²
• up to 70 °C according to IEC 60077 rated value	10 mm²
minimum permissible	
Control circuit/ Control	
Type of voltage	DC
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	
• initial value	0.7
Full-scale value	1.25

Design of the surge suppressor	with varistor
Inrush current peak	
• at 24 V	2.5 A
Duration of inrush current peak	
• at 24 V	100 µs
Closing power of magnet coil at DC	6.7 W
Holding power of magnet coil at DC	0.8 W
Closing delay	
• at DC	50 170 ms
Opening delay	
• at DC	15 17.5 ms
Arcing time	10 10 ms
Control version of the switch operating mechanism	Standard A1 - A2
Residual current of the electronics for control with	
signal <0>	
 at DC at 24 V maximum permissible 	16 mA
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	1
• instantaneous contact	1
Number of NO contacts for auxiliary contacts	1
• 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

• at 125 V rated value

• at 220 V rated value

1 A 0.9 A

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)
LII (OCA matica na	

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	14 A
• at 600 V rated value	17 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
• for three-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

Short-circuit protection	
Product function Short circuit protection	No
Design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A

nstallation/ 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 60715
Side-by-side mounting	Yes
Height	102 mm
Width	45 mm
Depth	107 mm
Required spacing • with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm

• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 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 (1 10 mm²)
— single or multi-stranded	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end 	2x (1 6 mm²)
processing	
 at AWG conductors for main contacts 	2x (18 8)
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 	2x (0.5 2.5 mm²)
processing	
 at AWG conductors for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross	
section	
• for main contacts	18 8
for auxiliary contacts	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 %
Failure rate [FIT]	
• with low demand rate acc. to SN 31920	100 FIT

Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
positively driven operation acc. to IEC 60947-5-	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Protection against electrical shock	finger-safe

Communi	ication/	'Pro	locol
Communication	ioatioi i		

Product function Bus communication No

Certificates/approvals

General Product Approval

EMC











Functional
Safety/Safety
of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

of Machinery

Type Examination

Certificate



Special Test Certificate

Type Test Certificates/Test Report

KC





other

Marine / Shipping

Lloyd's Register

LRS









Confirmation

other Railway



Vibration and Shock

Confirmation

Further information

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2025-2XB40-0LA2

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2025-2XB40-0LA2}$

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

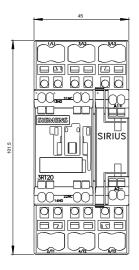
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2XB40-0LA2

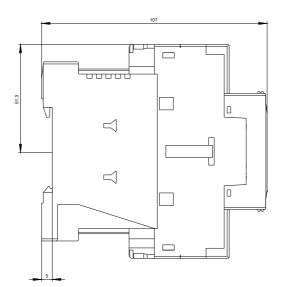
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2XB40-0LA2&lang=en

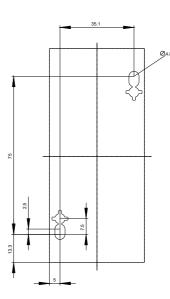
Characteristic: Tripping characteristics, I2t, Let-through current

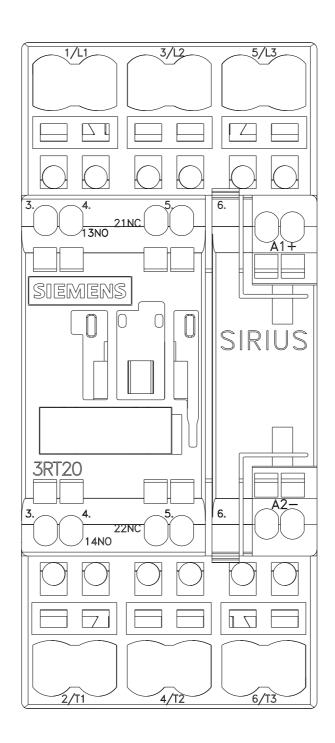
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2XB40-0LA2/char

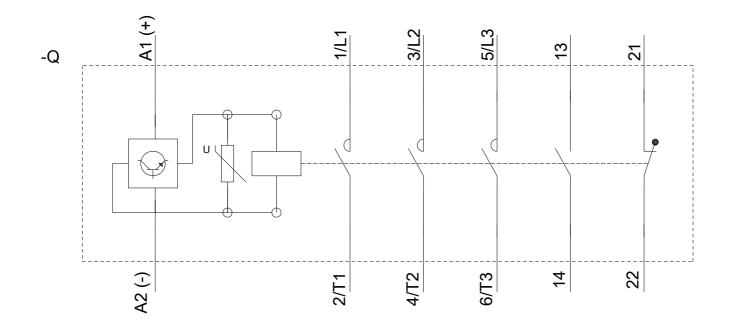
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-2XB40-0LA2&objecttype=14&gridview=view1











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