3RT1064-6XB46-0LA2

Data sheet



Traction contactor, AC-3 225 A, 110 kW / 400 V Coil 24 V DC x (0.7-1.25) PLC input 24-110 V DC Auxiliary contacts 2 NO + 2 NC 3-pole size S10 Busbar connections Coil connection: screw terminal

product brand name	SIRIUS
product designation	Contactor
design of the product	With extended operating range
product type designation	3RT1
General technical data	
size of contactor	S10
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	51 W
 at AC in hot operating state per pole 	17 W
without load current share typical	3.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance for railway applications according to EN 61373	Category 1, Class B
shock resistance at rectangular impulse	
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/06/2016
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

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
 at AC-3 rated value maximum 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	275 A
rated value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	275 A
— up to 690 V at ambient temperature 60 °C	250 A
rated value	200 A
— up to 1000 V at ambient temperature 60 °C	100 A
rated value	
• at AC-2 at 400 V rated value	225 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-4 at 400 V rated value	195 A
minimum cross-section in main circuit	
 at maximum AC-1 rated value 	150 mm²
at maximum Ith rated value	150 mm²
operational current for approx. 200000 operating	
cycles at AC-4	00.4
at 400 V rated value	96 A
at 690 V rated value	85 A
operating power	440 1114
at AC-2 at 400 V rated value	110 kW
• at AC-3	70 144/
— at 230 V rated value	73 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
• at AC-3e	72 μΜ
— at 230 V rated value	73 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	54 kW
at 690 V rated value	82 kW
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	4 000 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value
- limited to 10 a quitable of more automatical requirement	2 082 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	
Ilmited to 10's switching at zero current maximum Ilmited to 30's switching at zero current maximum	1 397 A; Use minimum cross-section acc. to AC-1 rated value

no lond quitabing fraguency	
no-load switching frequency	700 1/h
• at DC	700 1/11
operating frequency • at AC-1 maximum	700 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
at AC-2 at AC-3e maximum	250 1/h
at AC-4 maximum	130 1/h
operating frequency	
at DC-1 maximum	350 1/h
• at DC-3 maximum	250 1/h
at DC-5 maximum	250 1/h
Ratings for railway applications	
thermal current (Ith) up to 690 V	
 up to 40 °C according to IEC 60077 rated value 	275 A
 up to 70 °C according to IEC 60077 rated value 	215 A
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
consumed current at PLC-control input according to IEC 60947-1 maximum	2 mA
voltage at PLC-control input 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
closing power of magnet coil at DC	580 W
holding power of magnet coil at DC	3.4 W
closing delay	
• at DC	45 80 ms
opening delay	
• at DC	80 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
at 400 V rated value	3 A
at 500 V rated value at 500 V rated value	2 A
operational current at DC-12	271
• at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 50 V rated value at 110 V rated value	3 A
	2 A
at 125 V rated value at 220 V rated value	
at 220 V rated value at 600 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	0.4
• at 24 V rated value	6 A
at 48 V rated value	2 A
 at 60 V rated value 	2 A

* all 15 V rated value		
• at 800 V roted value	• at 110 V rated value	1 A
a d 500 Y rated value		
Street S		
full-oad current (FLA) for 3-phase AC motor at 480 V rated value 182 A val 480 V rated value 182 A val 680 V rated value 182 A val 600 V rated value 182 A - of 3-phase AC motor - 60 Pp		0.1 A
• at 880 V rated value • at 800 V rated value velided mechanical performance (hp) • for 3-phase AC motor — at 200/230 V rated value — at 404/80 V rated value — at 404/80 V rated value — at 404/80 V rated value — 18 575/800 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the man circuit — with type of contination 1 required — with type of contination 1 required — with type of contination 1 required — with type of ssignment 2 required — with type of ssignment 2 required — with type of sessignment 2 required — with type of contination 1 required — of short-circuit protection of the auxiliary switch required — with type of contination 1 required — side-by-side mounting fastening method — side-by-side mounting — forwards — upwards — other side — othe		
• at 800 V rated value 182. A		
yielded mechanical performance [hp] • for 3-phase AC motor — at 200208 V rated value — at 220230 V rated value — at 2700230 V rated value — at 275600 V rated value — at 575600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — with type of coordination 1 required — with type of assignment 2 required — state-by-side mounting — forwards — upwards — ownwards — ownw		
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 450/480 V rated value — at 575/600 V rated value — with type of assignment 2 required — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — with value of the auxiliary switch — althe added of the auxiliary switch — saide-by-side mounting — saide-by-side mounting — saide-by-side mounting — of the formation of the auxiliary switch — at the side — of grounded parts — forwards — at the side — of owwards —		182 A
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at 480/480 V rated value at 575/600 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required with part of assignment 2 required with side-by-side mounting with side-by-sid		
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Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for gound mounting with vertical mounting surface +/-90" rotatable, with vertical mounting surface +/-22.5" tilitable to the front and back screw fixing 20 mm 210 mm • with side-by-side mounting • with side-by-side mounting • for grounded parts • for live parts • for l		·
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- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position surface */- 22.5" filtable to the front and back screw fixing • side-by-side mounting height 210 mm width 145 mm depth 202 mm required spacing • with side-by-side mounting - forwards 20 mm - upwards 10 mm • for grounded parts - for wards 20 mm - upwards 10 mm • for grounded parts - forwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm • for live parts - towards 20 mm - upwards 10 mm • for main current circuit screw-type terminals type of electrical connection • for main current circuit screw-type terminals width of connection bar 6 mm tilckness of connection bar 6 mm diameter of holes 11 mm rumber of holes 11 mm rumber of holes • for main contacts - solid or stranded 2x (70 240 mm²)		aC: 500 A (600 V 100 kA)
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth 200 mm • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards — upwards — at the side — upwards — to main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit width of connection bar tikness of connection bar file main contacts • formain contacts • formain contacts — solid or stranded • for main contacts • formain contacts •		
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fastening method	mounting position	
● side-by-side mounting Yes height 210 mm width 145 mm depth 202 mm required spacing • with side-by-side mounting • with side-by-side mounting 20 mm - or upwards 10 mm - downwards 10 mm - downwards 10 mm • for grounded parts 20 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm • for live parts 20 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection screw-type terminals • for a mailiary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals width of connection bar 25 mm diameter of holes 11 mm number of holes 1 + for main contacts - solid or stranded <td< td=""><td></td><td></td></td<>		
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- upwards - downwards - at the side • for grounded parts - forwards - upwards - upwards - at the side • for live parts • for live parts - forwards - upwards - upwards - towards - towards - towards - upwards - for live parts - forwards - upwards - upwards - upwards - upwards - the side - townwards - at the side - townwards - at the side - townwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes - type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (70 240 mm²)		20 mm
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- downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit width of connection bar thickness of connection bar diameter of holes number of holes • for main contacts - solid or stranded 10 mm 10 mm screw-type terminals screw-type terminals 125 mm 6 mm 11 mm 125 mm 127 mm 128 mm 13 mm 14 mm 15 mm 16 mm 17 mm 17 mm 18 mm		
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type of connectable conductor cross-sections • for main contacts — solid or stranded 2x (70 240 mm²)		
 ◆ for main contacts — solid or stranded 2x (70 240 mm²) 	number of holes	1
 ◆ for main contacts — solid or stranded 2x (70 240 mm²) 	type of connectable conductor cross-sections	
()		
• at AWG cables for main contacts 2/0 500 kcmil	— solid or stranded	2x (70 240 mm²)
	 at AWG cables for main contacts 	2/0 500 kcmil

type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12		
AWG number as coded connectable conductor cross section			
 for auxiliary contacts 	18 14		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
 positively driven operation according to IEC 60947- 5-1 	No		
B10 value with high demand rate according to SN 31920	1 000 000		
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover		
Communication/ Protocol			
product function bus communication	No		
Certificates/ approvals			
Conoral Broduct Annyoval			

General Product Approval





Confirmation



<u>KC</u>



EMC Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

other		Railway	
Miscellaneous Confirmation	Miscellaneous	Type Test Certificates/Test Report	Special Test Certific- ate

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1064-6XB46-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6XB46-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6XB46-0LA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-6XB46-0LA2&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6XB46-0LA2/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-6XB46-0LA2&objecttype=14&gridview=view1

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