SIEMENS

Data sheet

3RT2046-3XB40-0LA2



traction contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, electronic drive, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: springloaded terminal

product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT2
General technical data	
size of contactor	S3
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 	19.8 W
 at AC in hot operating state per pole 	6.6 W
 without load current share typical 	1.8 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 	690 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 at rectangular impulse	
● at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
● at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating 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)	03/01/2017
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 maximum	95 %

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 	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 	130 A
rated value	
• at AC-1	400 A
— up to 690 V at ambient temperature 40 °C rated value	130 A
— up to 690 V at ambient temperature 60 °C	110 A
rated value	
 at AC-2 at 400 V rated value 	95 A
• at AC-3	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
 at AC-4 at 400 V rated value minimum cross-section in main circuit 	80 A
at maximum AC-1 rated value	50 mm²
at maximum AC- Trated value at maximum Ith rated value	50 mm ²
operational current for approx. 200000 operating	30 mm
cycles at AC-4	
at 400 V rated value	42 A
• at 690 V rated value	30 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1 at 24 V reted value	400 A
— at 24 V rated value — at 110 V rated value	100 A 100 A
— at 220 V rated value	10 A
- at 440 V rated value	1.8 A
— at 600 V rated value	1 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	400.4
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A 0.42 A
— at 440 V rated value — at 600 V rated value	0.42 A 0.16 A
	0.10 A

• with 3 current paths in series at DC-3 at DC-5	400.4
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
 operating power at AC-2 at 400 V rated value 	45 kW
• at AC-3	45 KW
• at AC-3 — at 230 V rated value	22 kW
— at 200 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	22 kW
• at 690 V rated value	27.4 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 725 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1's switching at zero current maximum limited to 5 s switching at zero current maximum 	1 297 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	946 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	610 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	486 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 000 1/h
operating frequency	
• at AC-2 at AC-3e maximum	350 1/h
● at AC-4 maximum	250 1/h
Ratings for railway applications	
thermal current (Ith) up to 690 V	
	400 A
 up to 40 °C according to IEC 60077 rated value 	130 A
 up to 40 °C according to IEC 60077 rated value up to 70 °C according to IEC 60077 rated value 	95 A
• up to 70 °C according to IEC 60077 rated value	
• up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage	95 A
up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage	95 A DC
up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC	95 A DC
up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC	95 A DC DC
up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC	95 A DC DC 24 V
up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC	95 A DC DC 24 V 0.7
up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC	95 A DC DC 24 V 0.7 1.25
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor 	95 A DC DC 24 V 0.7
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor 	95 A DC DC 24 V 0.7 1.25 with varistor
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs 3.2 A
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak locked-rotor current mean value locked-rotor current peak 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs 3.2 A 6.5 A
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs 3.2 A 6.5 A 150 ms
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs 3.2 A 6.5 A 150 ms 75 mA
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs 3.2 A 6.5 A 150 ms 75 mA 76 W
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value closing power of magnet coil at DC 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs 3.2 A 6.5 A 150 ms 75 mA 76 W
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 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs 3.2 A 6.5 A 150 ms 75 mA 76 W 1.8 W 50 70 ms 38 57 ms
 up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage 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 initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay 	95 A DC DC 24 V 0.7 1.25 with varistor 6.5 A 50 μs 3.2 A 6.5 A 150 ms 75 mA 76 W 1.8 W 50 70 ms

Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
instantaneous contact	1
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 	2 A
 at 690 V rated value 	1 A
operational 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
operational current at DC-13	10.4
at 24 V rated value	10 A
at 48 V rated value	2 A 2 A
 at 60 V rated value at 110 V rated value 	2 A 1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.9 A 0.3 A
at 600 V rated value	0.1 A
UL/CSA ratings	0.174
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	96 A
at 600 V rated value	77 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	75 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
product function short circuit protection	No
design of the fuse link	
 for short-circuit protection of the main circuit 	~C+ 250 A (600 V/ 400 KA) -M+ 460 A (600 V/ 400 KA) - D000- 000 A
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 side-by-side mounting 	Yes
height	140 mm
width	70 mm
depth	152 mm
required spacing	
 with side-by-side mounting 	
— forwards — upwards	20 mm 10 mm

			40		
- downward			10 mm		
— at the side			0 mm		
	for grounded parts				
— forwards			20 mm		
— upwards			10 mm		
— at the side	9		10 mm		
— downward	ls		10 mm		
 for live parts 					
— forwards			20 mm		
— upwards			10 mm		
— downward	ls		10 mm		
— at the side	e		10 mm		
Connections/ Termina	als				
type of electrical co	nnection				
 for main current 			screw-type terminals		
 for auxiliary and 			spring-loaded terminals		
	auxiliary contacts		Spring-type terminals		
 of magnet coil 	auxiliary contacts		Spring-type terminals		
-	conductor cross sections	for main	Opinig-type terminals		
contacts	conductor cross-sections				
	with core end processin	na	2x (2.5 35 mm²), 1x ($2.5 50 \text{ mm}^2$	
•	conductor cross-sect	•	_x (), 1x (
 for auxiliary cor 					
● lor advillary cor — solid or str			$2x(0.5 - 2.5 \text{ mm}^2)$		
		againg	2x (0.5 2.5 mm ²)		
	nded with core end proc		2x (0.5 1.5 mm ²)		
	nded without core end p	rocessing	2x (0.5 2.5 mm ²)		
	for auxiliary contacts		2x (20 16)		
AWG number as coo	ded connectable cond	uctor cross			
	-		10 2		
	• for main contacts				
-	for auxiliary contacts		20 14		
Safety related data					
product function					
product functionmirror contact a	according to IEC 60947-		Yes		
 product function mirror contact a positively driver 	according to IEC 60947- n operation according to		Yes No		
product function • mirror contact a • positively driver 5-1	n operation according to	DIEC 60947-	No		
product function • mirror contact a • positively driver 5-1 B10 value with high d	n operation according to demand rate according to	DIEC 60947-			
product function • mirror contact a • positively driver 5-1 B10 value with high d proportion of dange	n operation according to demand rate according to prous failures	o IEC 60947- o SN 31920	No 1 000 000		
product function • mirror contact a • positively driver 5-1 B10 value with high d proportion of dange • with low deman	n operation according to demand rate according to prous failures nd rate according to SN	o IEC 60947- o SN 31920 31920	No 1 000 000 40 %		
product function • mirror contact a • positively driver 5-1 B10 value with high d proportion of dange • with low deman • with high dema	n operation according to demand rate according to prous failures and rate according to SN and rate according to SN	o IEC 60947- o SN 31920 31920 I 31920	No 1 000 000		
product function • mirror contact a • positively driver 5-1 B10 value with high d proportion of dange • with low deman • with high dema failure rate [FIT] with	n operation according to demand rate according to prous failures nd rate according to SN	o IEC 60947- o SN 31920 31920 I 31920	No 1 000 000 40 %		
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product function • mirror contact a • positively driver 5-1 B10 value with high d proportion of dange • with low deman • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of	n operation according to demand rate according to prous failures and rate according to SN and rate according to SN low demand rate accord	o IEC 60947- o SN 31920 31920 I 31920 ding to SN according to	No 1 000 000 40 % 73 % 100 FIT		
product function • mirror contact a • positively driver 5-1 B10 value with high d proportion of dange • with low deman • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529	n operation according to demand rate according to prous failures and rate according to SN and rate according to SN low demand rate accord to the front according on the front according	o IEC 60947- o SN 31920 31920 I 31920 Jing to SN according to to IEC	No 1 000 000 40 % 73 % 100 FIT 20 a IP20	contact from the front	
product function • mirror contact a • positively driver 5-1 B10 value with high d proportion of dange • with low deman • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on	n operation according to demand rate according to prous failures and rate according to SN and rate according to SN low demand rate accord st interval or service life a on the front according the front according to	o IEC 60947- o SN 31920 31920 I 31920 Jing to SN according to to IEC	No 1 000 000 40 % 73 % 100 FIT 20 a	contact from the front	
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product function • mirror contact a • positively driver 5-1 B10 value with high d proportion of dange • with low deman • with high dema failure rate [FIT] with 31920 T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on Communication/ Prot	n operation according to demand rate according to prous failures and rate according to SN and rate according to SN low demand rate accord to the front according to the front according to tocol as communication	o IEC 60947- o SN 31920 31920 I 31920 Jing to SN according to to IEC	No 1 000 000 40 % 73 % 100 FIT 20 a IP20	contact from the front	
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Type Examination Certificate

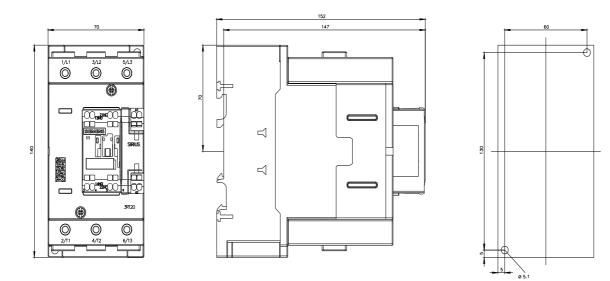


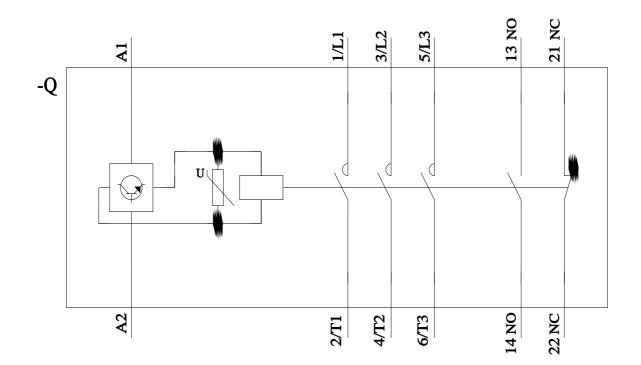


Type Test Certificates/Test Report Special Test Certificate

Marine / Shipping					other
ABS	Lloyds Register uts	PRS	RINA	RMRS	<u>Confirmation</u>
Railway					
<u>Type Test Certific-</u> ates/Test Report	Vibration and Shock	<u>Special Test Certific-</u> <u>ate</u>			

Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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=3RT2046-3XB40-0LA2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-3XB40-0LA2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3XB40-0LA2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-3XB40-0LA2⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3XB40-0LA2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-3XB40-0LA2&objecttype=14&gridview=view1





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