SIEMENS

Data sheet

3RT2046-3XF40-0LA2



traction contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 110 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: spring-loaded terminal

4/1	
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 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 0.8 A				
— at 440 V rated value					
— 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					
— at 500 V rated value	45 kW 55 kW				
— at 690 V rated value	55 KW 75 kW				
— at 1000 V rated value	75 kW 37 kW				
• at AC-3e					
— at 230 V rated value	22 kW				
— at 400 V rated value	45 kW				
— at 500 V rated value	45 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 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					
	130 A				
 up to 40 °C according to IEC 60077 rated value 	10077				
 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 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	95 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	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				
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 110 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				
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 110 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 110 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 110 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	95 A DC DC 110 V 0.7 1.25 with varistor 1.5 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 full-scale value design of the surge suppressor inrush current peak duration of inrush current peak 	95 A DC DC 110 V 0.7 1.25 with varistor 1.5 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 110 V 0.7 1.25 with varistor 1.5 A 50 μs 1.1 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 duration of inrush current peak locked-rotor current mean value locked-rotor current peak 	95 A DC DC 110 V 0.7 1.25 with varistor 1.5 A 50 μs 1.1 A 2.7 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 110 V 0.7 1.25 with varistor 1.5 A 50 μs 1.1 A 2.7 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 110 V 0.7 1.25 with varistor 1.5 A 50 μs 1.1 A 2.7 A 150 ms 15 mA				
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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 holding power of magnet coil at DC 	95 A DC DC 110 V 0.7 1.25 with varistor 1.5 A 50 μs 1.1 A 2.7 A 150 ms 15 mA 64 W				
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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				

	10
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
 for live parts 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection • for main current circuit	
	screw-type terminals
 for auxiliary and control circuit 	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
 of magnet coil 	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm ²)
— finely stranded without core end processing	2x (0.5 2.5 mm ²)
 at AWG cables for auxiliary contacts 	2x (20 16)
AWG number as coded connectable conductor cross	
section	
 for main contacts 	10 2
 for auxiliary contacts 	20 14
Safety related data	
product function	
product tunction	
•	Mar.
 mirror contact according to IEC 60947-4-1 	Yes
•	Yes No
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 	
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 	No
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures 	No
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 	No 1 000 000
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 	No 1 000 000 40 %
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Ø
RCM

<u>Type Examination</u> <u>Certificate</u>





Special Test Certificate Type Test Certificates/Test Report

Marine / Shipping					other	
ABS	Lloyd's Register urs	PRS	RINA	RMRS	<u>Confirmation</u>	
Railway						
<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	Vibration and Shock				
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=3RT2046-3XF40-0LA2 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-3XF40-0LA2						
Semilar & Cumpart (Manuala, Cartificator, Characteristica, EAC.)						

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3XF40-0LA2}$

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

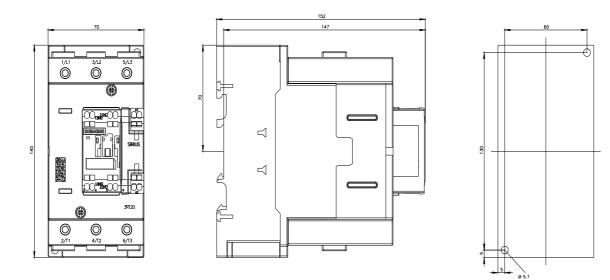
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-3XF40-0LA2&lang=en

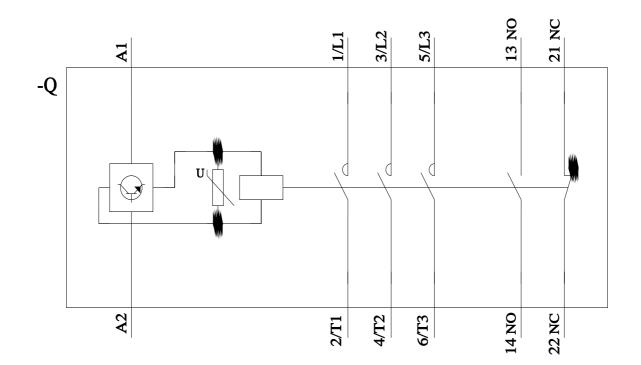
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3XF40-0LA2/char

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

 $\label{eq:http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-3XF40-0LA2&objecttype=14&gridview=view1$





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