SIEMENS

Data sheet

3RT2036-3XF44-0LA2



traction contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 110 V DC, 0.7-1.25* Us, electronic drive, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, removable auxiliary switch

product brand name SIRUS product designation Power contactor design of the product With extended operating range product type designation SRT2 central technical data State of contactor size of contactor S2 product extension No • function module for communication No • at AC in hot operating state 12 W • at AC in hot operating state per pole 4 W insultation voltage 680 V • of main circult with degree of pollution 3 rated value 680 V • of auxillary circult with degree of pollution 3 rated value 680 V • of auxillary circult with degree of pollution 3 rated value 64 KV • of auxillary circult rated value 64 KV • at DC 6.1g / 6 ms, 3.7g / 10 ms </th <th></th> <th></th>		
design of the product With extended operating range product type designation 3RT2 convarial technical data	product brand name	SIRIUS
product type designation 3RT2 General technical data	product designation	Power contactor
General technical data size of contactor S2 product extension No • function module for communication • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state • at AC in hot operating state per pole 4 W insulation voltage • of main circuit with degree of pollution 3 rated value 660 V • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of main circuit with degree of pollution 3 rated value 6 KV • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • dV • of contactor gio to EN 60947-1 400 V shock resistance with sine pulse	design of the product	With extended operating range
size of contactor S2 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 12 W • at AC in hot operating state per pole 4 W insulation voltage • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 690 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at DC 9.6g / 5 ms, 3.7g / 10 ms • at DC 9.6g / 5 ms, 5.8g / 10 ms • at DC 9.6g / 5 ms, 5.8g / 10 ms • at DC 9.6g / 5 ms, 5.8g / 10 ms • at DC 9.6g / 5 ms, 5.8g / 10 ms • at DC 9.6g / 5 ms, 5.8g / 10 ms • at DC 9.6g / 5 ms, 0.000 • of the contactor with added electronically optimized 10 000 000 reference code according to IEC 81346-2 Q Q Substance Prohibitance (Date) 10/01/2014 Ambient temperation 40 +70 °C • during operation 40 +70 °C • du	product type designation	3RT2
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• 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 6 • of main circuit rated value 6 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 6 • at DC 6.1g / 5 ms, 3.7g / 10 ms shock resistance with sine pulse 9.6g / 5 ms, 5.8g / 10 ms • at DC 9.6g / 5 ms, 5.8g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions - Installation altitude at height above sea level maximum 2 000 m ambient temperature - • during peration -40 +70 °C • during storage -55 +80 °C relative	 at AC in hot operating state per pole 	4 W
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • 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 -40 +70 °C	reference code according to IEC 81346-2	Q
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• 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	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit 95 %	 during operation 	-40 +70 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	during storage	-55 +80 °C
Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	5
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	050 V
at AC-1 at 400 V at ambient temperature 40 °C rated	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	70 A
value	
— up to 690 V at ambient temperature 60 °C rated value	60 A
at AC-2 at 400 V rated value	50 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value	41 A
minimum cross-section in main circuit	
at maximum AC-1 rated value	25 mm²
at maximum Ith rated value	25 mm ²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A

 — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value 	55 A 25 A 0.6 A			
— at 440 V rated value				
	0.6 A			
— at 600 V rated value				
	0.35 A			
operating power				
 at AC-2 at 400 V rated value 	22 kW			
• at AC-3				
— at 230 V rated value	15 kW			
— at 400 V rated value	22 kW			
— at 500 V rated value	30 kW			
— at 690 V rated value	22 kW			
• at AC-3e				
— at 230 V rated value	15 kW			
— at 400 V rated value	22 kW			
— at 500 V rated value	30 kW			
— at 690 V rated value	22 kW			
operating power for approx. 200000 operating cycles at AC-				
4				
• at 400 V rated value	12.6 kW			
• at 690 V rated value	18.2 kW			
short-time withstand current in cold operating state up to				
40 °C				
Iimited to 1 s switching at zero current maximum	937 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	229 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
● at DC	1 500 1/h			
operating frequency				
 at AC-2 at AC-3e maximum 	600 1/h			
● at AC-4 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 	70 A			
 up to 70 °C according to IEC 60077 rated value 	55 A			
Control circuit/ Control				
type of voltage	DC			
type of voltage of the control supply voltage	DC			
control supply voltage at DC				
rated value	110 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	1.5 A			
duration of inrush current peak	50 µs			
locked-rotor current mean value	0.45 A			
locked-rotor current peak	0.8 A			
duration of locked-rotor current	230 ms			
holding current mean value	12 mA			
closing power of magnet coil at DC	23 W			
holding power of magnet coil at DC	1 W			
closing delay				
• at DC	35 110 ms			
opening delay				
• at DC	30 55 ms			
- 41 0 0				
	10 20 ms			
arcing time control version of the switch operating mechanism	10 20 ms Standard A1 - A2			

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	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				
• at 24 V rated value	6 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			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	52 A			
• at 600 V rated value	52 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	3 hp			
— at 230 V rated value	10 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	15 hp			
— at 220/230 V rated value	15 hp			
— at 460/480 V rated value	40 hp			
— at 575/600 V rated value	50 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)			
— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)			
 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 forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
side-by-side mounting	Yes			
height	114 mm			
width	55 mm			
depth	178 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 	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			
solid or stranded	2x (1 35 mm ²), 1x (1 50 mm ²)		
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)		
type of connectable conductor cross-sections			
for auxiliary contacts	0. (0.5		
 — solid or stranded finally stranded with core and processing 	2x (0.5 2.5 mm ²)		
 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)		
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	2x (20 14)		
section			
• for main contacts	18 1		
 for auxiliary contacts 	20 14		
for auxiliary contacts Safety related data	20 14		
	20 14		
Safety related data	20 14 Yes		
Safety related data product function			
Safety related data product function • mirror contact according to IEC 60947-4-1	Yes		
Safety related data product function • 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	Yes No		
Safety related data product function • 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	Yes No		
Safety related data product function • 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	Yes No 1 000 000 40 % 73 %		
Safety related data product function • 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 failure rate [FIT] with low demand rate according to SN 31920	Yes No 1 000 000 40 %		
Safety related data product function • 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 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC	Yes No 1 000 000 40 % 73 %		
Safety related data product function • 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 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508	Yes No 1 000 000 40 % 73 % 100 FIT 20 a		
Safety related data product function • 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 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	Yes No 1 000 000 40 % 73 % 100 FIT 20 a IP20		
Safety related data product function • 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 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	Yes No 1 000 000 40 % 73 % 100 FIT 20 a		
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Safety related data product function • 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 60529 touch protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Communication/ Protocol product function bus communication Certificates/ approvals General Product Approval Image: Confirmation Confirmation	Yes No 1 000 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No		
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Safety related data product function • 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 e with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 60529 touch protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 communication/ Protocol product function bus communication Certificates/ approvals General Product Approval Confirmatio ccc Functional Safety/Safety of Machinery Declaration of there Type Examination Cer-	Yes No 1 000 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No		

Marine / Shipping					
ABS	B U REAU VERITAS	Lloyd's Register urs	PRS	RINA	RMRS R
other	Railway			Environment	
<u>Confirmation</u>	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	Vibration and Shock	Environmental Con- firmations	

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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=3RT2036-3XF44-0LA2 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-3XF44-0LA2 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3XF44-0LA2

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

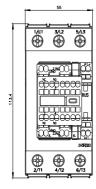
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-3XF44-0LA2&lang=en

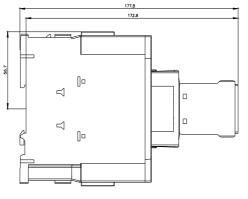
Characteristic: Tripping characteristics, I²t, Let-through current

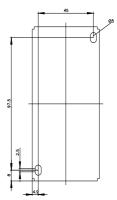
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3XF44-0LA2/char

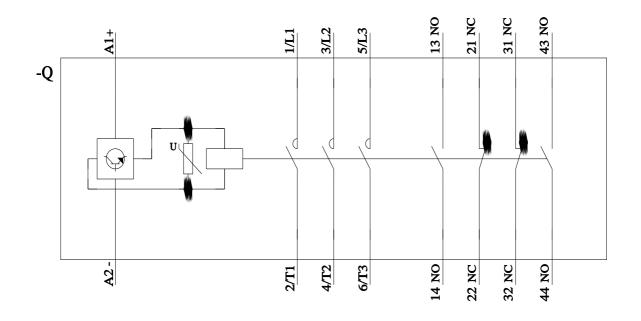
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-3XF44-0LA2&objecttype=14&gridview=view1









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