SIEMENS

Data sheet

3RT2035-1XF40-0LA2



Traction contactor, AC-3 40 A, 18.5 kW / 400 V 1 NO + 1 NC 110 V DC, 0.7-1.25* US, with varistor, 3-pole, Size S2, screw terminal

product brand name SIRUS product designation Contactor design of the product With extended operating range product designation 3RT2 deneral technical data S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state 6.6 W • at AC in hot operating state per pole 2.2 W • without load current share typical 1 W Insultation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 64 KV • of main circuit with degree of pollution 3 rated value 64 KV • of main circuit with degree of pollution 3 rated value 64 KV • of auxiliary circuit rated value 6 KV • of main circuit with degree of pollution 3 rated value 60 V • of auxiliary circuit rated value 6 KV • of main circuit with added to auxiliary switch block 100 00 V shock res	product brand name	SIRIUS
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ambient temperature -40 +70 °C • during storage -55 +80 °C	Ambient conditions	
• during operation -40 +70 °C • during storage -55 +80 °C	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C	ambient temperature	
	 during operation 	-40 +70 °C
relative humidity minimum 10 %	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 	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	60 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	60 A
— up to 690 V at ambient temperature 60 °C rated value	55 A
 at AC-2 at 400 V rated value 	40 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	35 A
minimum cross-section in main circuit	
 at maximum AC-1 rated value 	16 mm ²
 at maximum Ith rated value 	16 mm ²
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	22 A
• at 690 V rated value	18.5 A
operating power	
 at AC-2 at 400 V rated value 	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	11.6 kW
• at 690 V rated value	16.8 kW
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	196 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	750 1/h
● at AC-4 maximum	300 1/h

Ratings for railway applications	
thermal current (Ith) up to 690 V	
up to 40 °C according to IEC 60077 rated value	60 A
• up to 70 °C according to IEC 60077 rated value	50 A
Control circuit/ Control	
type of voltage	DC
	DC
type of voltage of the control supply voltage 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
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
	1
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts instantaneous contact 	1 1
number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1 1
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 1 10 A
number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value 	1 1 10 A 10 A 3 A 2 A
number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	1 1 10 A 10 A 3 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	1 1 10 A 10 A 3 A 2 A 1 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 600 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 40 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 20 V rated value • at 22 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 40 V rated value • at 690 V rated value • at 400 V rated value • at 690 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 60 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 420 V rated value • at 125 V rated value • at 220 V rated value • at 48 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10
number of NO contacts for auxiliary contacts • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 250 V rated value • at 250 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 400 V rated value • at 48 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10
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e for single phase AC motor				
 for single-phase AC motor at 110/120 V rated value 	2 hp			
— at 110/120 V rated value	3 hp			
— at 230 V rated value	7.5 hp			
for 3-phase AC motor				
— at 200/208 V rated value	10 hp			
— at 220/230 V rated value	15 hp			
— at 460/480 V rated value	30 hp			
— at 575/600 V rated value	40 hp			
contact rating of auxiliary contacts according to UL	A600 / P600			
Short-circuit protection	Na			
product function short circuit protection	No			
design of the fuse link				
 for short-circuit protection of the main circuit 	- O. 400 A (000) (400 LA) - M. 00 A (000) (400 LA) D000; 405 A (445			
— 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			
for the star star of the star	forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
side-by-side mounting	Yes			
height	114 mm			
width	55 mm			
depth	130 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 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
 of magnet coil 	Screw-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
 — finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)			
at AWG cables for main contacts	2x (1 2) finit), 1x (1 3) finit) 2x (18 2), 1x (18 1)			
type of connectable conductor cross-sections				
for auxiliary contacts				
 Ior auxiliary contacts — solid or stranded 	$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2)$			
	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 finely stranded with core end processing at AWG cables for auxiliany contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	2x (20 16), 2x (18 14)			
section				

 • for survising contracts • for survising contract according to EC 60947-61 • positively driven operation according to EC 60947-75-7 • Positively driven operation according to EC 60947-75-7 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • representation of the trivent or service life according to EC 60047-75-73-8 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to EC 60020 • protection on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection Class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on the front according to EC 60020 • protection class IP on	 for main contain 	cts		18 1			
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• oplity etyle driven operation according to IEC 60947- 5-1 No • 00 volume with high demenant rate according to SN 31920 • with high demenant rate according to SN 31920 • with high demenant rate according to SN 31920 • volth ordernant rate according to SN 31920 • volth rate according to IEC 60520 • regenerate, for vertical contact from the front • regenerate, for vertical contact • regeneeeeee • regenerate, for vertical contact • re	product function						
5-1 Image: State in the index and rate according to \$N 31920 1000 000 Proportion of dangerous failures 40 % • with high demand rate according to \$N 31920 73 % 1000 ITT 73 % failure rate [FT] with low demand rate according to SN 31920 20 y It was the form of test according to SN 31920 20 y It was the form of test according to SN 31920 1000 FTT 11 value for proof test interval or service life according to EC 60529 1000 FTT It was the form taccording to EC 60529 1000 FTT Product function bus communication No Product function bus communication Confirmation Product function bus communication No Product function bus communication Confirmation Product function </td <td> mirror contact </td> <td>according to IEC 60947-</td> <td>4-1</td> <td>Yes</td> <td></td> <td></td>	 mirror contact 	according to IEC 60947-	4-1	Yes			
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31920 20 y Try value for proof test interval or service life according to IEC 60529 20 y Profection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front product function bus communication No Product function Safety/Safety of Safety/Safety of Ker Declaration of Conformity Test Certificates EMC Functional Certificates Effect Safety/Safety of Ker Declaration of Conformity Test Certificates Safety/Safety of Ker Declaration of Conformity Test Certificates Marine / Shipping Effect Safety/Safety of Lest Safety Safety/Safety of Lest Safety Marine / Shipping Effect Effect Safety/Safety of Lest Safety Safety/Safety of Lest Safety Safety Safety Safety/Safety of Lest Safety Safety/Safety of Lest Safety Safety/Safety of L	 with high dema 	and rate according to SN	31920	73 %			
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Image: contrast of the system of the syst	touch protection or	the front according to	IEC 60529	finger-safe, for vertical con	tact from the front		
Certificates/ approvals General Product Approval Image: Confirmation image: Confirmatimate: Confirmation image: Confirmation image: Confirmatio	Communication/ Pro	tocol					
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