SIEMENS

Data sheet

3RT2026-2XJ40-0LA2



Traction contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC with electronic drive 72 V DC, 0.7-1.25* US, with integrated varistor, 3-pole, Size S0, Spring-type 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	SO
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 	4.8 W
 at AC in hot operating state per pole 	1.6 W
 without load current share typical 	1.6 W
insulation voltage	
 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	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
● at DC	15g / 5 ms, 10g / 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)	10/01/2009
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	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	40 A			
 at AC-1 up to 690 V at ambient temperature 40 °C 	40 A			
rated value — up to 690 V at ambient temperature 60 °C rated value	35 A			
at AC-2 at 400 V rated value	25 A			
• at AC-3	23 A			
- at 400 V rated value	25 A			
— at 500 V rated value	18 A			
— at 690 V rated value	13 A			
• at AC-3e				
 at AC-se — at 400 V rated value 	25 A			
— at 500 V rated value	18 A			
— at 500 V rated value	13 A			
• at AC-4 at 400 V rated value	15.5 A			
minimum cross-section in main circuit				
at maximum AC-1 rated value	10 mm ²			
at maximum Ac- riated value at maximum Ith rated value	10 mm ²			
operational current for approx. 200000 operating cycles at AC-4				
at 400 V rated value	9 A			
• at 690 V rated value	9 A			
operating power				
 at AC-2 at 400 V rated value at AC-3	11 kW			
— at 230 V rated value	5.5 kW			
— at 400 V rated value	11 kW			
— at 500 V rated value	11 kW			
— at 690 V rated value	11 kW			
• at AC-3e				
— at 230 V rated value	5.5 kW			
— at 400 V rated value	11 kW			
— at 500 V rated value	11 kW			
— at 690 V rated value	11 kW			
operating power for approx. 200000 operating cycles at AC-4				
 at 400 V rated value 	4.4 kW			
• at 690 V rated value short-time withstand current in cold operating state	7.7 kW			
up to 40 °C	275 At Lloo minimum groot conting and to A.O. 4 acts durates			
Imited to 1 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum limited to 20 s switching at zero surrent maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero surrent maximum 	144 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 60 s switching at zero current maximum	118 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency	1 500 1/b			
• at DC	1 500 1/h			
operating frequency	750.1/b			
• at AC-1 maximum	750 1/h			
at AC-2 maximum	750 1/h			
at AC-3 maximum	750 1/h			
at AC-3e maximum	750 1/h			
• at AC-2 at AC-3e maximum	750 1/h			
● at AC-4 maximum	250 1/h			
Ratings for railway applications				

• up to 40 °C according to IEC 60077 rated value	40 A
 up to 40° C according to IEC 60077 rated value up to 70 °C according to IEC 60077 rated value 	30 A
Control circuit/ Control	
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	72 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
duration of locked-rotor current	180 ms
closing power of magnet coil at DC	13.2 W
holding power of magnet coil at DC	1.3 W
closing delay	
• at DC	50 75 ms
opening delay	
• at DC	30 50 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
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 	10 A
• at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1A
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	10 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 at 600 V rated value 	0.3 A 0.1 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	21 A
at 600 V rated value	21 A 22 A
vielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 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: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (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 standard mounting rail according to DIN EN 60715
 side-by-side mounting 	Yes
height	102 mm
width	45 mm
depth	107 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	spring-loaded 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	2x (1 10 mm ²)
— solid or stranded	2x (1 10 mm ²)
 finely stranded with core end processing 	2x (1 6 mm ²)
— finely stranded without core end processing	2x (1 6 mm ²)
 at AWG cables for main contacts type of connectable conductor cross-sections 	2x (18 8)
51	
 for auxiliary contacts — solid or stranded 	2x (0.5 2.5 mm²)
	· · · · · · · · · · · · · · · · · · ·
 — finely stranded with core end processing — finely stranded without core end processing 	2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (0.5 2.5 mm) / 2x (20 14)
AWG number as coded connectable conductor cross	
section	
for main contacts	18 8
 for auxiliary contacts 	20 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
 positively driven operation according to IEC 60947- 	No
5-1	
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	

with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [[1]] with low demand rate according to SN 31920		40 % 73 %						
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to		100 FIT 20 y						
IEC 61508								
60529	protection class IP on the front according to IEC 60529		IP20					
	the front according to	IEC 60529	finger-safe, for vertical conta	act from the front				
Communication/ Prot		-	No					
product function bus communication No Certificates/ approvals								
General Product Approval								
eonoral i roudor i p								
(SP) Carlor		<u>Confirmation</u>		<u>KC</u>	EHC			
EMC	Functional Safety/Safety of Machinery	Declaration of	f Conformity	Test Certificates				
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report			
Marine / Shipping								
ABS	BUREAU		Lloyds Register uis	PRS	RINA			
Marine / Shipping	other		Railway					
RMRS	<u>Confirmation</u>		Vibration and Shock	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report			
Dangerous Good								
<u>Transport Informa-</u> tion								
Further information Information- and Do https://www.siemens. Industry Mall (Onlin		gs, Brochures,	.)					

Industry Mall (Online ordering system)

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Cax online generator

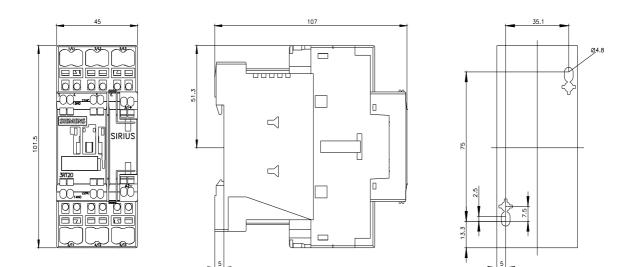
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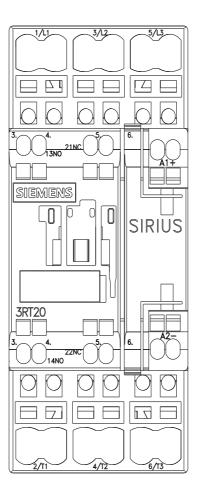
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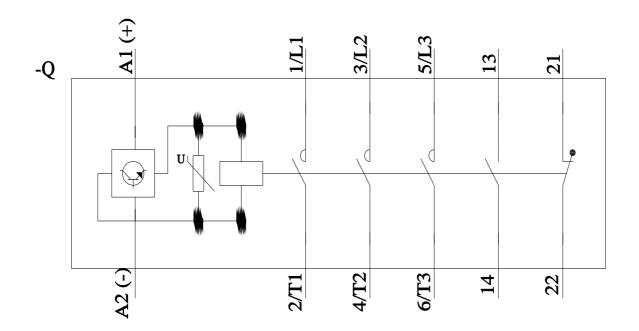
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2XJ40-0LA2

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2XJ40-0LA2&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2XJ40-0LA2/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2XJ40-0LA2&objecttype=14&gridview=view1







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