SIEMENS

Data sheet

3RT2026-2AV00



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 400 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0 $\,$

product brand name SIRIUS product designation Power contactor product type designation 3RT2 General technical data Solon size of contactor Solon product extension Vers - function module for communication No - auxiliary switch Yes power loss [W] for rated value of the current - - at AC in hot operating state 5.7 W - at AC in hot operating state per pole 1.9 W - without load current share typical 2.5 W insulation voltage - - of main circuit with degree of pollution 3 rated value 690 V - of auxiliary circuit rated value 690 V - of auxiliary circuit rated value 64 kV - of auxiliary circuit rated value		
product type designation3RT2General technical dataS0size of contactorS0product extensionNo• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current-• at AC in hot operating state5.7 W• at AC in hot operating state per pole1.9 W• without load current share typical2.5 Winsulation voltage-• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value690 V• of main circuit rated value6 kV• of auxiliary circuit rated value8 kJ / 5 ms, 5,3g / 10	product brand name	SIRIUS
General technical data size of contactor S0 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 5.7 W • at AC in hot operating state 5.7 W • at AC in hot operating state per pole 1.9 W • without load current share typical 2.5 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 8 kV<	product designation	Power contactor
size of contactorS0product extensionNo• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current-• at AC in hot operating state5.7 W• at AC in hot operating state per pole1.9 W• without load current share typical2.5 Winsulation voltage-• of main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value690 V• of main circuit rated value6 kV• of main circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary circuit rate value6 kV• of auxiliary circuit rate value6 kV <th>product type designation</th> <th>3RT2</th>	product type designation	3RT2
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• auxiliary switchYespower loss [W] for rated value of the current• at AC in hot operating state5.7 W• at AC in hot operating state per pole1.9 W• without load current share typical2.5 Winsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of main circuit ated value6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value8,3g / 5 ms, 5,3g / 10 ms	product extension	
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insulation voltage 690 V • 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 690 V • of main circuit rated value 690 V • of main circuit rated value 640 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary 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 8,3g / 5 ms, 5,3g / 10 ms	 at AC in hot operating state per pole 	1.9 W
• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance690 V• of main circuit rated value690 V• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8,3g / 5 ms, 5,3g / 10 ms	 without load current share typical 	2.5 W
• of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse • at AC8,3g / 5 ms, 5,3g / 10 ms	insulation voltage	
surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary 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 400 V • at AC 8,3g / 5 ms, 5,3g / 10 ms	 of main circuit with degree of pollution 3 rated value 	690 V
• of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary 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 • at AC • at AC 8,3g / 5 ms, 5,3g / 10 ms	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
• of auxiliary 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 kJ • at AC 8,3g / 5 ms, 5,3g / 10 ms	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse at AC 8,3g / 5 ms, 5,3g / 10 ms 	 of main circuit rated value 	6 kV
coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 8,3g / 5 ms, 5,3g / 10 ms	 of auxiliary circuit rated value 	6 kV
• at AC 8,3g / 5 ms, 5,3g / 10 ms		400 V
	shock resistance at rectangular impulse	
shock resistance with sine pulse	• at AC	8,3g / 5 ms, 5,3g / 10 ms
	shock resistance with sine pulse	
• at AC 13,5g / 5 ms, 8,3g / 10 ms	• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	mechanical service life (operating cycles)	
of contactor typical 10 000 000	 of contactor typical 	10 000 000
of the contactor with added electronically optimized 5 000 000 auxiliary switch block typical		5 000 000
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	reference code according to IEC 81346-2	Q
Substance Prohibitance (Date) 10/01/2009	Substance Prohibitance (Date)	10/01/2009
Ambient conditions	Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	installation altitude at height above sea level maximum	2 000 m
ambient temperature	ambient temperature	
• during operation -25 +60 °C	 during operation 	-25 +60 °C
• during storage -55 +80 °C	during storage	-55 +80 °C
relative humidity minimum 10 %	relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum		95 %
Main circuit	Main circuit	
number of poles for main current circuit 3	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	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated	35 A
value	
● at AC-3	
— 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 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
at AC-5a up to 690 V rated value	35.2 A
 at AC-5b up to 400 V rated value at AC-6a 	20.7 A
	20.2 A
— up to 230 V for current peak value n=20 rated value	
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	20.2 A 20.2 A
— up to 690 V for current peak value n=20 rated value	12.9 A
at AC-6a	12.9 A
 up to 230 V for current peak value n=30 rated value 	13.5 A
— up to 200 V for current peak value n=30 rated value	13.5 A
— up to 500 V for current peak value n=30 rated value	13.5 A
— up to 690 V for current peak value n=30 rated value	13 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	9 A
at 690 V rated value	9A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 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 	

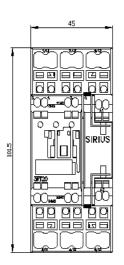
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— 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	7.7 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	8 kVA
• up to 400 V for current peak value n=20 rated value	13.9 kVA
• up to 500 V for current peak value n=20 rated value	17.4 kVA
up to 690 V for current peak value n=20 rated value	15.4 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	5.3 KVA
• up to 400 V for current peak value n=30 rated value	9.3 kVA
• up to 500 V for current peak value n=30 rated value	11.6 kVA
• up to 690 V for current peak value n=30 rated value	15.5 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited 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
Imited to 0 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	144 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	118 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
 at AC-1 maximum 	1 000 1/h
• at AC-2 maximum	750 1/h
 at AC-2 maximum at AC-3 maximum	750 1/h 750 1/h
• at AC-2 maximum	750 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 	750 1/h 750 1/h 750 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum 	750 1/h 750 1/h 750 1/h

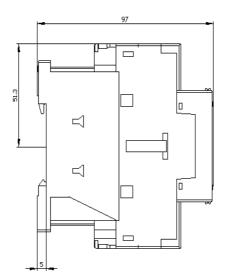
control supply voltage at AC	400.1/
• at 50 Hz rated value	400 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	77 VA
inductive power factor with closing power of the coil • at 50 Hz	0.00
	0.82
apparent holding power of magnet coil at AC	0.01/4
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	0.05
• at 50 Hz	0.25
closing delay	a (a
• at AC	8 40 ms
opening delay	
• at AC	4 16 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 instantaneous contact	1
number of NO contacts for auxiliary contacts 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
	6 A
 at 48 V rated value 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	
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	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	21 A
• at 600 V rated value	22 A
yielded 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 / P600
contact rating of auxiliary contacts according to OL	A000 / 1 000

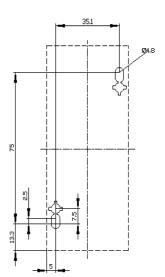
Short-circuit protection design of the fuse link	
-	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)
 — with type of assignment 2 required 	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
nstallation/ 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	102 mm
width	45 mm
depth	97 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	10 mm
— 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 mm²)
 solid or stranded 	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
stranded	1 10 mm²
 finely stranded with core end processing 	1 6 mm²
 finely stranded without core end processing 	1 6 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 1.5 mm ²
 finely stranded without core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
- solid or stranded	$2x (0.5 - 2.5 \text{ mm}^2)$
	$2x (0.5 \dots 2.5 \text{ mm}^2)$
 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)
	2x (20 14)
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	
AWG number as coded connectable conductor cross section	
AWG number as coded connectable conductor cross	18 8

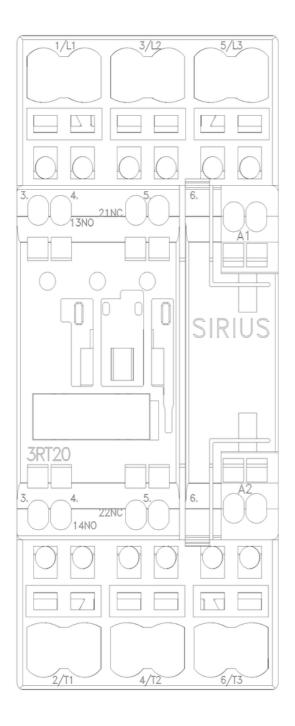
Safoty rolated data					
Safety related data					
product function	cording to IEC 60047 4 4		Yes		
	ccording to IEC 60947-4-1				
	y-related switching OFF	131020	Yes		
•	mand rate according to SN	1 3 1 3 2 0	450 000		
proportion of danger		20	40.0/		
	d rate according to SN 319		40 %		
	id rate according to SN 319		73 %		
	w demand rate according		100 FIT		
T1 value for proof test 61508	interval or service life acco	ording to IEC	20 a		
	n the front according to I	EC 60529	IP20		
-	he front according to IEC		finger-safe, for vertical contact from the front		
ertificates/ approvals					
General Product App					
General Troduct App	Joval				
SP M		<u>Confirmatio</u>		KC	EAC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
Marine / Shipping	B U REAU VERITAS		Hoyds Register us	PRS	RINA
Marine / Shipping	other			Railway	Environment
KMRS RMRS	<u>Confirmation</u>		Confirmation	Vibration and Shock	Environmental Con firmations
urther information	I to exit the Russian marl	(ac hara)			
https://press.siemens.cc Siemens is working of Please contact your loo EAC relevant market (of Information on the pa https://support.industry Information- and Dow https://www.siemens.cc Industry Mall (Online	com/global/en/pressrelease on the renewal of the curr cal Siemens office on the s other than the sanctioned B ackaging x.siemens.com/cs/ww/en/vi vnloadcenter (Catalogs, B om/ic10	e/siemens-wind-dc rent EAC certifica tatus of validity of EAEU member sta ew/109813875 Brochures,)	ates. the EAC certification if you inte tes Russia or Belarus).	end to import or offer to sup	ply these products to a
Cax online generator		order/default.aspx	<pre> (?lang=en&mlfb=3RT2026-2A) </pre>	/00	
https://support.industry	v.siemens.com/cs/ww/en/ps	s/3RT2026-2AV00 on drawings, 3D) models, device circuit diagra	ams, EPLAN macros,)	
	ng characteristics, I ² t, Le				
Further characteristic	d.siemens.com/cs/ww/en/ps cs (e.g. electrical endurar siemens.com/bilddb/index	nce, switching fre		ecttype=14&gridview=view1	
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