SIEMENS

Data sheet

3RT2026-1AP00



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name SIRUS product designation Power contactor product type designation SRT2 General technical data 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 voitage 600 V • of main circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit rated value 6 kV • of auxiliary strong base bypical 10 V • of diar circuit rated value 6 kV • of auxiliary strong base bypical 10 00 V • of diar circuit rated value 10 00 V • at AC		
product type designation 3RT2 General technical data	product brand name	SIRIUS
General tochnical data S0 size of contactor S0 product extension • 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 5.7 W • without load current share typical 1.9 W • without load current share typical 680 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 680 V • of main circuit with degree of pollution 3 rated value 680 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of auxillary circuit with 680 for protective separation between col and main contacts according to EN 60947-1 400 V shock resistance with sine pulse 63,3 / 5 ms, 5.3 / 10 ms • at AC 13,5g / 5 ms, 8,3g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added alectronically optimized auxilary switch block typical 10 000 000 • of the contactor with added alectronically optimized auxilary switch block typical 10 000 000 • of the contactor with added alectronically optimized auxilary switch block typical 10 000 000 • of	product designation	Power contactor
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• auxiliary switch Yes power loss [W] for rated value of the current 5.7 W • at AC in hot operating state per pole 1.9 W • at AC in hot operating state per pole 2.5 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of anxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 64 V • of auxiliary circuit rated value 63 / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 63 / 5 ms, 8,3g / 10 ms <	product extension	
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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 8,3g / 5 ms, 5,3g / 10 ms • at AC 8,3g / 5 ms, 8,3g / 10 ms shock resistance with sine pulse 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 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 suxiliary switch block typical 10 000 000 efference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C • flative humidity at 55 °C according to IEC 60068-2-30 95 %	 without load current share typical 	2.5 W
• of auxiliary circuit with degree of pollution 3 rated value 690 V surge voltage resistance 6 kV • of main 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 6 kV • at AC 8,3g / 5 ms, 5,3g / 10 ms shock resistance with sine pulse 13,5g / 5 ms, 8,3g / 10 ms • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary witch 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +60 °C • during storage -55 +60 °C	insulation voltage	
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reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %		5 000 000
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Environmental footprint	reference code according to IEC 81346-2	Q
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Environmental footprint 10 %	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Environmental footprint 95 %	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Environmental footprint 95 %	during storage	-55 +80 °C
maximum Environmental footprint	relative humidity minimum	10 %
		95 %
Environmental Product Declaration(EPD) Yes	Environmental footprint	
	Environmental Product Declaration(EPD)	Yes

Global Warming Potential [CO2 eq] total	74.2 kg
Global Warming Potential [CO2 eq] during manufacturing	1.9 kg
Global Warming Potential [CO2 eq] during operation	72.4 kg
Global Warming Potential [CO2 eq] after end of life	-0.117 kg
Main circuit	5
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 value	35 A
• 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	05 A
— 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	20.7 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	20.2 A
— up to 400 V for current peak value n=20 rated value	20.2 A
— up to 500 V for current peak value n=20 rated value	20.2 A
— up to 690 V for current peak value n=20 rated value	12.9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	13.5 A
— up to 400 V for current peak value n=30 rated value	13.5 A
 up to 500 V for current peak value n=30 rated value up to 600 V for current peak value n=20 rated value 	13.5 A
— up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated	13 A 10 mm ²
value operational current for approx. 200000 operating cycles at	
AC-4	0.4
at 400 V rated value	9 A 0 A
• at 690 V rated value	9 A
operational current • at 1 current path at DC-1	
• at 1 current path at DC-1 — at 24 V rated value	35 A
— at 24 V rated value — at 60 V rated value	35 A 20 A
— at 100 V rated value	4.5 A
— at 220 V rated value	1A
— 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	1A
— 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	1A
— 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	0.00 / 1
— 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	3A
— at 440 V rated value	0.27 A
	0.16 A
 — at 600 V rated value with 3 current paths in series at DC-3 at DC-5 	0.10 A
with 3 current paths in series at DC-3 at DC-5 at 24 V rated value	25.4
— 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	4 4 1001
at 400 V rated value	4.4 kW
at 690 V rated value	7.7 kW
operating apparent power at AC-6a	0.10/4
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	5 2 IA/A
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 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value
 Innied to 5 s switching at zero current maximum Iimited to 10 s switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value
 Initial to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	
	144 A; Use minimum cross-section acc. to AC-1 rated value
-	118 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
Iimited to 60 s switching at zero current maximum no-load switching frequency	
 limited to 60 s switching at zero current maximum no-load switching frequency at AC 	118 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h
Iimited to 60 s switching at zero current maximum no-load switching frequency	

 at AC-2 maximum 	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
operating range factor control supply voltage rated value of	200 1
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	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
	4 10 ms
arcing time	Standard A1 - A2
control version of the switch operating mechanism	Stanuaru AT - Az
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	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	1A
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 40 V rated value at 60 V rated value	2 A 2 A
at 10 V rated value	1 A
at 125 V rated value	0.3 A
at 220 V rated value	0.3 A
at 600 V rated value	0.3 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 hn		
- at 220/230 V rated value	5 hp		
— at 460/480 V rated value	7.5 hp		
— at 575/600 V rated value	15 hp 20 hp		
	•		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit	~C: 400 A (C00 \/ 400 \/A) ~M. 50 A (C00 \/ 400 \/A) DC00; 400 A (445 \/ 00		
 — 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 DIN rail according to DIN EN 60715		
side-by-side mounting	Yes		
height	85 mm		
width	45 mm		
depth	97 mm		
required spacing			
with side-by-side mounting	10		
— 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	acrow two terminals		
for main current circuit for auxiliant and control circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
 at contactor for auxiliary contacts of magnet coll 	Screw-type terminals		
of magnet coll type of connectable conductor cross-sections	Screw-type terminals		
type of connectable conductor cross-sections • for main contacts			
for main contacts — solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
— solid — solid or stranded	$2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$		
 — solid of stranded — finely stranded with core end processing 	$2x (1 2.5 mm^2), 2x (2.5 10 mm^2), 1x 10 mm^2$		
for AWG cables for main contacts	2x (16 2.3 mini), 2x (2.3 8 mini), 1x 10 mini 2x (16 12), 2x (14 8)		
connectable conductor cross-section for main contacts	LA (10 12), LA (17 0)		
solid	1 10 mm²		
stranded	1 10 mm²		
 finely stranded with core end processing 	1 10 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm²		
 finely stranded with core end processing 	0.5 2.5 mm ²		
type of connectable conductor cross-sections			
for auxiliary contacts			
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 — solid of stranded — finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
 for AWG cables for auxiliary contacts 	2x (0.5 1.5 mm), 2x (0.75 2.5 mm)		
- IOI ANO GADICO IOI AUXIIIAIY CUIILACIO	L_{Λ} (L0 10), L_{Λ} (10 17)		

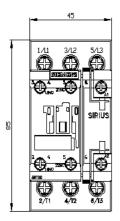
sectionfor main contacts		tor cross				
			16 8			
 for auxiliary contacts 			20 14			
Safety related data			20 14			
proportion of dangerous failu	res					
with low demand rate acc		920	40 %			
with high demand rate according to SN 31920			73 %			
failure rate [FIT] with low dem			100 FIT			
31920						
B10 value with high demand rate according to SN 31920		1 000 000				
-	product function mirror contact according to IEC 60947-4-1		Yes			
suitability for use safety-related switching OFF		_	Yes; applies only to contact	or operating mechanism		
IEC 61508 T1 value for proof test interva IEC 61508	I or service life	according to	20 a			
Electrical Safety						
protection class IP on the fro	nt according to	IEC 60529	IP20			
touch protection on the front	according to IE	C 60529	finger-safe, for vertical conta	act from the front		
Approvals Certificates						
General Product Approval						
	CE EG-Konf.	UK CA		Confirmation	(UL) ut	
General Product Approval		EMV	Test Certificates		Marine / Shipping	
KC	EHC	RCM	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping					other	
B U R E A U VERITAS		Lloyds Kegister us	RINA	RMRS	<u>Miscellaneous</u>	
other		Environment				
Confirmation C	onfirmation	EPD Typ II/III (wit cylce assessme				

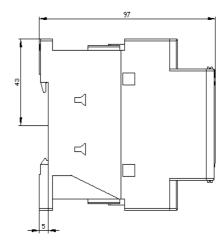
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1AP00

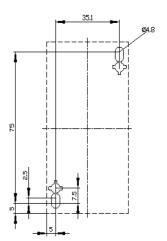
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AP00</u> <u>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</u>

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http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-1AP00&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AP00/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1AP00&objecttype=14&gridview=view1











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