SIEMENS

Data sheet 3RT2026-2AN24



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S0, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
 function module for communication 	No
auxiliary switch	No
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	2.7 W
type of calculation of power loss depending on pole	quadratic
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 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
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating 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)	
Weight	0.498 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
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	
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 mandiacturing Global Warming Potential [CO2 eq] during operation	72.4 kg
Global Warming Potential [CO2 eq] after end of life	-0.117 kg
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	40.4
— up to 690 V at ambient temperature 40 °C rated value	40 A
 up to 690 V at ambient temperature 60 °C rated value at AC-3 	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	
— 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 at AC-6a 	12.9 A
— 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	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 value	10 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	9 A
at 690 V rated value	9 A
operational current	
• at 1 current path at DC-1	05.4
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value — at 220 V rated value	4.5 A 1 A
— at 220 V rated value — at 440 V rated value	0.4 A
— at 600 V rated value	0.4 A 0.25 A
with 2 current paths in series at DC-1	0.207.
— 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 	
	•	35 A
- at 1 current path at DC-3 at DC-5		
- at 12 vrated value		
		1.4 A
	-	20. A
• with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 60 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at		
at 24 V rated value		0.06 A
		OF A
■ with 3 current paths in series at DC-3 at DC-5 ■ at 24 V rated value		
• with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 400 V rated value — at 600 V rated value — at 400 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — at 500 V rated value — at 600 V rated value — 5.5 kW At kW - at 600 V rated value — 10 to 600 V for current peak value n=20 rated value — 10 to 600 V for current peak value n=20 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600		
- at 24 V rated value		0.16 A
- at 10 V rated value	•	
- at 110 V rated value		
- at 220 V rated value - at 440 V rated value - at 800 V rated value operating power • at AC-3 - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 230 V rated value - at 690 V rated value - at 690 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated		
- at 440 V rated value - at 600 V rated value operating power • at AC-3 - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 690 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated		
operating power at AC-3 — at 220 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 500 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — 11 kW — at 500 V rated value — 11 kW — at 690 V rated value — 20 rated value — 17.7 kW operating apparent power at AC-6a — up to 230 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current		
e at AC-3 — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value n=20 rated value — at 690 V rated value — at 690 V rated value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value		
at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 500 V rated value — at 400 V rated value — at 690 V r		0.6 A
- at 230 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 230 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value n=20 rated value - at 690 V rated value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - a		
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value		
- at 500 V rated value - at 690 V rated value • at AC-3e - at 230 V rated value • at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value 11 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • 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 • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • linited to 1 s switching at zero current maximum 375 A; Use minimum cross-section acc. to AC-1 rated value		
- at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 400 V rated value - at 690 V rated v		
at 230 V rated value at 230 V rated value at 400 V rated value 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 at 690 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 up to 400 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 17.4 kVA up to 690 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value 15.3 kVA up to 400 V for current peak value n=30 rated value 15.4 kVA up to 500 V for current peak value n=30 rated value 15.5 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		
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- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 400 V rated value - at 690 V rated value - at 690 V rated value - at 690 V rated value - at 400 V rated value - at 690 V rated value - at 400 V Av VW - at 690 V rated value - at 400 V Av VW - at 690 V rated value - at 690 V rated value - at 400 V Av VW - at 690 V rated value - at 690 V rated		
- at 500 V rated value - at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • 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 • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 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	— at 230 V rated value	5.5 kW
- at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • 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	— at 400 V rated value	
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40 °C ● limited to 1 s switching at zero current maximum 375 A; Use minimum cross-section acc. to AC-1 rated value	·	10.0 NVA
	 limited to 1 s switching at zero current maximum 	375 A; Use minimum cross-section acc. to AC-1 rated value
	-	
• limited to 10 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		5 000 1/h

operating frequency	
1.00.4	
• at AC-1 maximum	000 1/h
• at AC-2 maximum 75	750 1/h
• at AC-3 maximum 75	750 1/h
• at AC-3e maximum 75	750 1/h
• at AC-4 maximum 25	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage A	AC .
control supply voltage at AC	
• at 50 Hz rated value	20 V
• at 60 Hz rated value	20 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
	0.8 1.1
	0.85 1.1
apparent pick-up power of magnet coil at AC	4.74
	11 VA
	'9 VA
inductive power factor with closing power of the coil	70
	1.72 1.74
	0.74
apparent holding power of magnet coil at AC	0.5.1/4
37.55	0.5 VA
	3.5 VA
inductive power factor with the holding power of the coil	.05
).25).28
closing delay • at AC 8	3 40 ms
opening delay	5 40 IIIS
	16 ms
	0 10 ms
	Standard A1 - A2
Auxiliary circuit	Admidd AT 7/2
number of NC contacts for auxiliary contacts instantaneous 2	
contact	
number of NO contacts for auxiliary contacts instantaneous 2	
contact	0 A
	0 A
operational current at AC-15	A A
	5 A
	3 A
	? A
	A
operational current at DC-12	0.0
	0 A
	5 A
	5 A
	5 A
	? A
	A
	1.15 A
operational current at DC-13	
	5 A
	? A
	? A
	A
	9.9 A
	0.3 A
 at 600 V rated value 0.).1 A
	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 / Q600
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)
Installation/ mounting/ dimensions	3
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
meaning position	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
height	102 mm
width	45 mm
depth	144 mm
required spacing	144 (1111)
with side-by-side mounting	40
— 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	enring-loaded terminals
	spring-loaded terminals
for auxiliary and control circuit at contactor for auxiliary contactor	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)
	2x (18 8)
 for AWG cables for main contacts 	=x (10 iii 0)
for AWG cables for main contacts connectable conductor cross-section for main contacts	2.((0 0)
	1 10 mm²
connectable conductor cross-section for main contacts	

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 mm²
 finely stranded without core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG cables for auxiliary contacts 	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 60947-5-1 	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	

General Product Approval







Confirmation





General Product Approval

EMV

Test Certificates

Marine / Shipping

<u>KC</u>





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping











Miscellaneous

other Railway Environment

other



Further information

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=3RT2026-2AN24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2AN24

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AN24

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

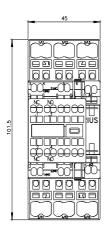
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2AN24&lang=en

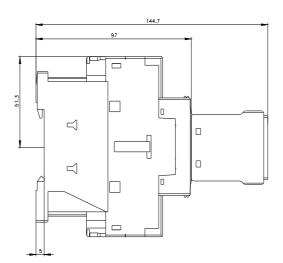
Characteristic: Tripping characteristics, I²t, Let-through current

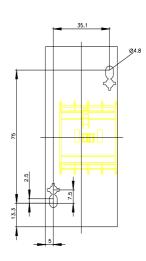
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AN24/char

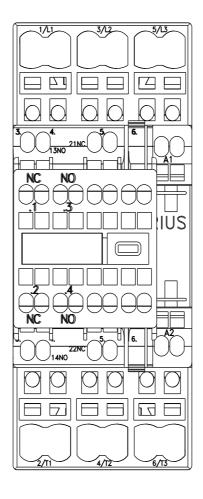
Further characteristics (e.g. electrical endurance, switching frequency)

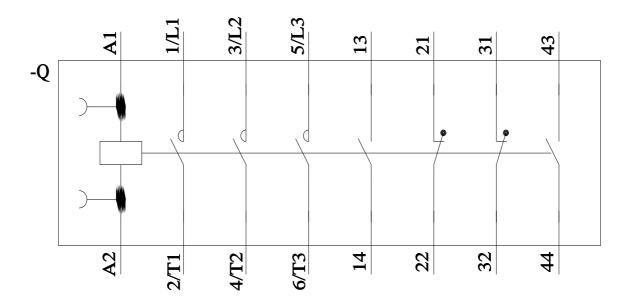
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2AN24&objecttype=14&gridview=view1











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