SIEMENS

Data sheet 3RT2026-2AF00



power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz, 3-pole, Size S0 Spring-type terminal

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	Yes
power loss [W] for rated value of the current at AC in hot operating state	4.8 W
• per pole	1.6 W
power loss [W] for rated value of the current without load current share typical	9.8 W
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 acc. 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 (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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
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
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

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	35 A
rated value	
• at AC-3	05.4
— at 400 V rated value	25 A 18 A
— at 500 V rated value	
— at 690 V rated value• at AC-4 at 400 V rated value	13 A 15.5 A
	35.2 A
at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value	20.7 A
at AC-5b up to 400 V rated valueat AC-6a	20.1 A
— up to 230 V for current peak value n=20 rated	20.2 A
value	20.2 A
— up to 400 V for current peak value n=20 rated	20.2 A
value	
 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	12.9 A
value	12.071
• at AC-6a	
— up to 230 V for current peak value n=30 rated	13.5 A
value	
 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	13.5 A
value	10.5 A
— up to 690 V for current peak value n=30 rated	13 A
value	
minimum cross-section in main circuit at maximum AC-1 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
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	35 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 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	05.4
— at 24 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 27 v rated value	LUTT

— at 110 V rated value	2.5 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 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 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
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 kV·A
 up to 400 V for current peak value n=20 rated value 	13.9 kV·A
 up to 500 V for current peak value n=20 rated value 	17.4 kV·A
up to 690 V for current peak value n=20 rated value	15.4 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	5.3 kV·A
 up to 400 V for current peak value n=30 rated value 	9.3 kV·A
 up to 500 V for current peak value n=30 rated value 	11.6 kV·A
up to 690 V for current peak value n=30 rated value	15.5 kV·A
short-time withstand current in cold operating state	
up to 40 °C	275 A. Llea minimum areas anotice and to AC 4 metad value
Ilmited to 1 s switching at zero current maximum Ilmited to 5 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 5 s switching at zero current maximum	299 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 10 s switching at zero current maximum	200 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 current maximum	128 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum no load switching frequency.	106 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency • at AC	5 000 1/h
operating frequency	3 000 I/II
at AC-1 maximum	1 000 1/h
at AC-1 maximum at AC-2 maximum	750 1/h
• at AC-3 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	110 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 V·A

	_
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 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
closing delay	0.23
• at AC	8 40 ms
opening delay	0 40 IIIS
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Standard 711 712
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts	1
instantaneous contact	
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 	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	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
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				
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	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	10			
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
for live parts— forwards	10 mm			
— upwards	10 mm			
— upwarus — downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals	O IIIIII			
type of electrical connection	spring-loaded terminals			
type of electrical connection • for main current circuit	spring-loaded terminals			
type of electrical connection	spring-loaded terminals			
type of electrical connection	spring-loaded terminals Spring-type terminals			
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type of electrical connection	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 10 mm²)			
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type of electrical connection	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 10 mm²			
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type of electrical connection	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 10 mm² 1 10 mm² 1 10 mm² 1 6 mm² 2 6 mm² 2 6 mm² 2 6 mm²			
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V, 80 kA)

at 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 acc. to IEC 60947-4-1	Yes
B10 value with high demand rate acc. to SN 31920	450 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
Certificates/ approvals	

General Product Approval















Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates	Test Certificates	
Type Examination	UK Declaration of	~	Special Test Certificate	Type Test Certificates/Test Penert	

Marine / Shipping







EG-Konf.







other

Confirmation



Confirmation

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=3RT2026-2AF00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2AF00

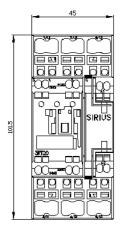
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

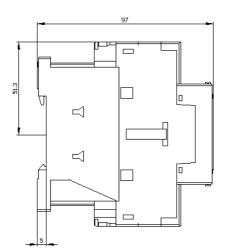
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AF00

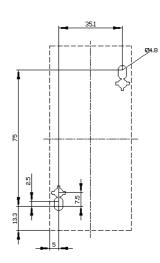
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2AF00&lang=en

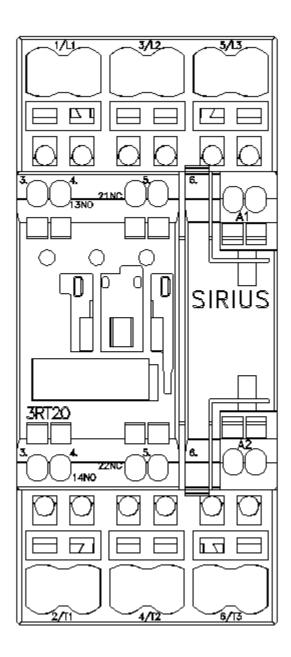
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AF00/char

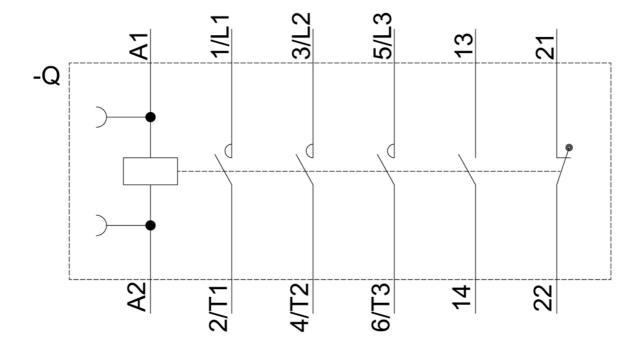
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2AF00&objecttype=14&gridview=view1











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