SIEMENS

Data sheet

3RT2026-2AL24-3MA0



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S0, captive auxiliary switch, no surge suppressor retrofittable

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
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 	10.5 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 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)	10/01/2009
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 %
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	030 V
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 $^\circ\mathrm{C}$ 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	
— 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	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 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 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 the second part of the second second	

— 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 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
 limited to 3's switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value
 limited 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
 Imited to 50's switching at zero current maximum 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	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
	750 1/h
• at AC-2 maximum	750 1/h 750 1/h
 at AC-2 maximum at AC-3 maximum	750 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum 	750 1/h 750 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 	750 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum 	750 1/h 750 1/h

control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• 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	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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	6 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
at 100 V rated value	1A
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)
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	21 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	21 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor	21 A 22 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	21 A

	e for 3-phase AC motor	
	 for 3-phase AC motor at 200/208 V rated value 	5 hp
control trailing of auxiliary contacts according to UL A800 / Q800 Strate-cault protection Getsign of the first link • for short-circuit protection of the minin circuit		
Short-circuit protection design of the fase link - with type of accordination 1 required - with type of assignment 2 required - state-ing method - state-ing method - state-ing method - upwards - upwards - upwards - ownwards - ownwards 0 mm <td></td> <td>•</td>		•
design of the faces link or short-circuit and indication of the main circuit with type of coordination 1 required gC: 100 A (680 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA) or short-circuit protection of the audiany switch required gC: 35A (690V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 35A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 35A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 35A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 35A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 35A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 35A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 35A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 35A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 30A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50 A (690 V, 100 kA), BS88: 30A (415V, 80 kA) gC: 50A (690 V, 100 kA), abl: 50A (690 V, 100 kA)		1007 000
for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required with type of assignment 2 required with type of assignment 2 required		
- with type of coordination 1 required - with type of sasgmment 2 required - with type of sasgmment 2 required - for short-circuit protection of the auditary switch required - for subtract of the short of the auditary switch required - state-by-side mounting - forwards - for	0	
• for short-circuit protection of the auxiliary switch required installation/ mounting dimensions gG: 10 A (500 V, 1 KA) meanting position 4/180° rotation possible on vertical mounting surface; can be tilted forward and backward by V/ 22 5° on vertical mounting surface; example and backward backward backward by V/ 22 5° on vertical mounting surface; example and backward backw		
Installation/ mounting dimensions +/180° rotation possible on vertical mounting surface. fastening method screw and snap-on mounting on 35 mm DIN rail according to DIN EN 60715 • side-byside mounting Yes height 102 mm width 45 mm depth 144 mm required spacing Yes - dowards 10 mm - downwards	 — with type of assignment 2 required 	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)
mounting position +f-80 rotation possible on vertical mounting surface: can be litted forward and backward by +f-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 witht 45 mm dopth 144 mm required spacing • • with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - for main suret cicult	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
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required spacing • with side-by-side mounting - forwards 10 mm - downwards 10 mm - for argundet parts - - forwards 10 mm - upwards 10 mm - downwards 10 mm - of raminals spring-loaded terminals spring-loaded terminals	width	45 mm
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downwards 10 mm • for live parts - forwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection for auxiliary contacts spring-loaded terminals for auxiliary contacts Spring-loaded terminals of magnet coil spring-loaded terminals of magnet coil Spring-type terminals of or auxiliary contacts Spring-type terminals of they stranded 2x (1 10 mm ²) finely stranded with core end processing 2x (1 6 mm ²) onnectable conductor cross-section for main contacts		
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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 • solid or stranded 2x (1 10 mm²) • solid or stranded with core end processing 2x (1 6 mm²) • finely stranded with core end processing 2x (1 6 mm²) • solid 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • finely stranded with core end processing 2x (1 6 mm²) connectable conductor cross-section for main contacts \$\$ solid • solid 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • finely stranded with core end processing 1 6 mm² connectable conductor cross-section for auxiliary contacts \$\$ solid or stranded • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 1.5 mm²		
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for auxiliary contacts	 finely stranded with core end processing 	0.5 1.5 mm²
•	type of connectable conductor cross-sections	
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	— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 2x (0.5 1.5 mm²) 	- finely stranded with core end processing	2x (0.5 1.5 mm²)
 finely stranded without core end processing 2x (0.5 1.5 mm²) 	- finely stranded without core end processing	2x (0.5 1.5 mm²)
• for AWG cables for auxiliary contacts 2x (20 14)	 for AWG cables for auxiliary contacts 	2x (20 14)

AWG number as code	ed connectable conductor	cross			
section					
 for main contacts 			8		
 for auxiliary cont 	acts	20	14		
afety related data		_			
product function					
	cording to IEC 60947-4-1	Ye			
	operation according to IEC				
	mand rate according to SN	31920 45	0 000		
proportion of dangerous failures			A (
	I rate according to SN 3192				
	d rate according to SN 319				
	w demand rate according to		0 FIT		
61508	interval or service life accor	ding to IEC 20	a		
protection class IP or	the front according to IE				
	he front according to IEC	60529 fin	ger-safe, for vertical contact	from the front	
suitability for use					
 safety-related sw 	vitching OFF	Ye	S		
ertificates/ approvals					
General Product App	roval				
SP M	Confirmation		Ű	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Cont	formity	Test Certificates	Marine / Shipping
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping					
BUREAU VERITAS		Lloyd's Register uis	PRS	RINA	RMRS
other			Railway	Environment	
<u>Confirmation</u>		Confirmation	Vibration and Shock	Environmental Con- firmations	

Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2026-2AL24-3MA0

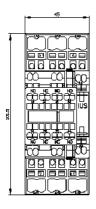
Cax online generator

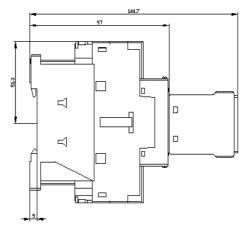
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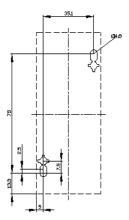
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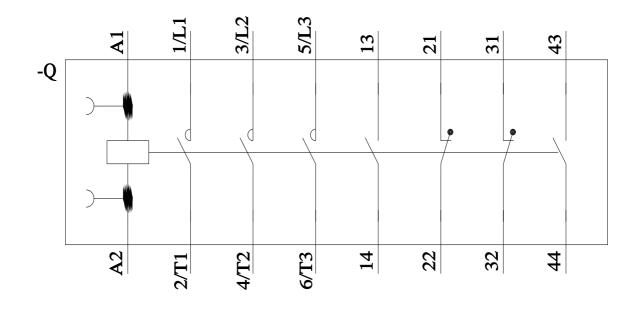
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2AL24-3MA0&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AL24-3MA0/char Europort.industry.siemens.com/cs/ww/en/ps/3RT2026-2AL24-3MA0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2AL24-3MA0&objecttype=14&gridview=view1









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