## SIEMENS

## Data sheet

## 3RT2024-1KB40



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25\* Us, with plugged-in varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, suitable for PLC outputs, not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
<ul> <li>without load current share typical</li> </ul>	4.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
● at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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	000.1/			
at AC-3 rated value maximum	690 V 690 V			
at AC-3e rated value maximum				
operational current				
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A			
• at AC-1				
— up to 690 V at ambient temperature 40 °C	40 A			
rated value	1071			
— up to 690 V at ambient temperature 60 °C	35 A			
rated value				
• at AC-3				
— at 400 V rated value	12 A			
— at 500 V rated value	12 A			
— at 690 V rated value	9 A			
• at AC-3e				
— at 400 V rated value	12 A			
— at 500 V rated value	12 A			
— at 690 V rated value	9 A			
• at AC-4 at 400 V rated value	12.5 A			
• at AC-5a up to 690 V rated value	35.2 A			
• at AC-5b up to 400 V rated value	9.9 A			
• at AC-6a				
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	11.4 A			
— up to 400 V for current peak value n=20 rated	11.4 A			
value	11.4 A			
— up to 500 V for current peak value n=20 rated	11.3 A			
value				
<ul> <li>up to 690 V for current peak value n=20 rated</li> </ul>	9 A			
value				
● at AC-6a				
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A			
— up to 400 V for current peak value n=30 rated	7.6 A			
value	7.0 A			
— up to 500 V for current peak value n=30 rated	7.6 A			
value				
<ul> <li>— up to 690 V for current peak value n=30 rated</li> </ul>	7.6 A			
value				
minimum cross-section in main circuit at maximum AC-1	10 mm²			
rated value				
operational current for approx. 200000 operating cycles at AC-4				
• at 400 V rated value	5.5 A			
• at 690 V rated value	5.5 A			
operational current	0.071			
• 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			
<ul> <li>with 2 current paths in series at DC-1</li> </ul>				
— 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			
<ul> <li>with 3 current paths in series at DC-1</li> </ul>				
— at 24 V rated value	35 A			
— at 60 V rated value	35 A			

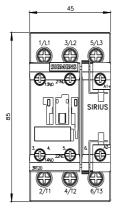
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
- at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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	0.0 A
• at AC-3	
	0.644
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	0.111/
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 kW
at 690 V rated value	4.6 kW
	4.0 KW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
• up to 500 V for current peak value n=20 rated value	9.8 kVA
• up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	A.1./A
• up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	6.5 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	9 kVA
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 0 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	126 A; Use minimum cross-section acc. to AC-1 rated value
-	
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	105 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	1 500 1/b
• at DC	1 500 1/h
operating frequency	1 000 1/b
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
<ul> <li>at AC-3e maximum</li> </ul>	1 000 1/h

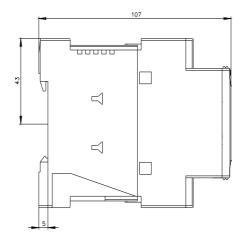
● at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
<ul> <li>initial value</li> </ul>	0.7
<ul> <li>full-scale value</li> </ul>	1.25
design of the surge suppressor	with varistor
closing power of magnet coil at DC	4.5 W
holding power of magnet coil at DC	4.5 W
elosing delay ● at DC	52 270 ms
opening delay	52 270 115
• at DC	15 21 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	1
instantaneous contact	
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
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
<ul> <li>at 690 V rated value</li> </ul>	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A 2 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>	2 A 1 A
<ul> <li>at 200 V rated value</li> <li>at 600 V rated value</li> </ul>	0.15 A
operational current at DC-13	0.10 /
at 24 V rated value	10 A
at 48 V rated value	2 A
• at 60 V rated value	2 A
<ul> <li>at 110 V rated value</li> </ul>	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	11.0
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	11 A 11 A
• at 600 V rated value yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
– at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	

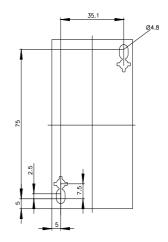
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
<ul> <li>with type of assignment 2 required</li> </ul>	gG: 25A (690V,100kA), aM: 22A (690V,100kA), BS88: 25A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	go. 10 A (300 V, 1 M)
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 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
fastening method	60715
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	85 mm
width	45 mm
depth	107 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— 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	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
<ul><li>at contactor for auxiliary contacts</li><li>of magnet coil</li></ul>	
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> </ul>	Screw-type terminals Screw-type terminals
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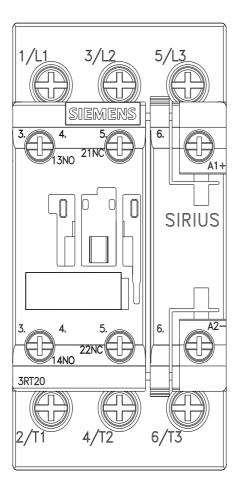
<ul> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>suitability for use</li> </ul>		ding to SN100according to20to IECIP2	73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front			
<ul> <li>safety-related s</li> </ul>	witching OFF	Yes	S			
Certificates/ approval		_	_	_		
General Product Ap	oproval					
(SP) CM	<u>Confirmation</u>	CCC		<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration of Co	nformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping						
ABS	BUREAU VERITAS		Lloyd's Register uts	RINA	RMRS	
other		Railway	Dangerous Good			
<u>Confirmation</u>	VDE VDE	Vibration and Shock	<u>Transport Informa-</u> tion			
Further information						
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business 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=3RT2024-1KB40 Cax online generator http://support.industry.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1KB40 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1KB40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/cs/ww/en/ps/3RT2024-1KB40 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/SiW/PAS/RT2024-1KB40/char Characteristic: Tripping characteristics, F1, Let-through current http://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1KB40/char Further characteristics (e.g. electrical endurance, switching frequency)						
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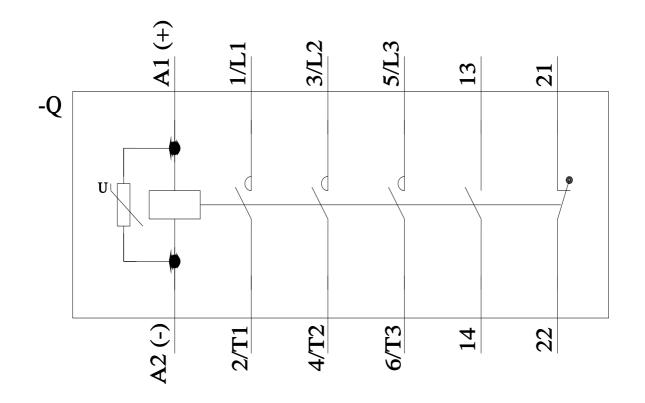
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