SIEMENS

Data sheet 3RT2025-2KF40



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 110 V DC, 0.7-1.25 * Us, with plugged-in varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0, 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		
 function module for communication 	No	
auxiliary switch	No	
power loss [W] for rated value of the current		
 at AC in hot operating state 	1.8 W	
 at AC in hot operating state per pole 	0.6 W	
without load current share typical	4.5 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 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)		
 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	
 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	40 A
value	25.4
 up to 690 V at ambient temperature 60 °C rated value 	35 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 500 V rated value	17 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-5a up to 690 V rated value • at AC-5b up to 400 V rated value	14.1 A
•	14.1 A
• at AC-6a	44.4.0
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	11.4 A
— up to 690 V for current peak value n=20 rated value	11.3 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	7.6 A
 up to 400 V for current peak value n=30 rated value 	7.6 A
 up to 500 V for current peak value n=30 rated value 	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	7.7 A
at 690 V rated value	7.7 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	1A
— at 440 V rated value	0.4 A
— at 440 V rated value — at 600 V rated value	0.25 A
	0.25 A
with 2 current paths in series at DC-1 at 24 V roted value.	25 A
— 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 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-2 at 400 V rated value	7.5 kW		
• at AC-3			
— at 230 V rated value	4 kW		
— at 400 V rated value	7.5 kW		
— at 500 V rated value	7.5 kW		
— at 690 V rated value	11 kW		
• at AC-3e			
— at 230 V rated value	4 kW		
— at 400 V rated value	4.5 kW		
— at 500 V rated value	7.5 kW		
— at 690 V rated value	11 kW		
operating power for approx. 200000 operating cycles at AC-			
4			
• at 400 V rated value	3.5 kW		
at 690 V rated value	6 kW		
operating apparent power at AC-6a			
	4.5 kVA		
• up to 230 V for current peak value n=20 rated value			
• up to 400 V for current peak value n=20 rated value	7.8 kVA		
 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 400 V for current peak value n=20 rated value	7.8 kVA		
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	7.8 kVA 9.9 kVA		
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 operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value	7.8 kVA 9.9 kVA		
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time of voltage of thetime to the	DC.	
type of voltage of the control supply voltage	DC	
control supply voltage at DC	110 V	
rated value operating range factor control supply voltage rated value of magnet coil at DC	110 V	
initial value	0.7	
• full-scale value	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	
closing delay		
• at DC	52 270 ms	
opening delay		
• at DC	19 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 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	40.4	
• at 24 V rated value	10 A	
 at 48 V rated value at 60 V rated value 	6 A 6 A	
at 100 V rated value at 110 V rated value	3 A	
at 175 V rated value 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 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	14 A	
at 600 V rated value	17 A	
yielded mechanical performance [hp]		
 for single-phase AC motor 		
— at 110/120 V rated value	1 hp	
— at 230 V rated value	3 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	3 hp	
— at 220/230 V rated value	5 hp	
— at 460/480 V rated value	10 hp	
— at 575/600 V rated value	15 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: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)	
with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (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	102 mm	
width	45 mm	
depth	107 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 forwards	10 mm	
— forwards	10 mm	
— upwards — at the side	6 mm	
— at the side — downwards	10 mm	
for live parts	10 11111	
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
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	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)	
connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
• stranded	1 10 mm²	
 finely stranded with core end processing 	1 6 mm²	
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 AWG number as acided connectable conductor areas	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	
B10 value with high demand rate according to SN 31920	450 000	

proportion of dangerous failures		
 with low demand rate according to SN 31920 	40 %	
 with high demand rate according to SN 31920 	73 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
T1 value for proof test interval or service life according to IEC 61508	20 a	
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	
suitability for use		
 safety-related switching OFF 	Yes	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



Functional Safety/Safet chinery	y of Ma- Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation



Vibration and Shock

Transport Information

Environmental Confirmations

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=3RT2025-2KF40

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2025-2KF40}$

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

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2KF40}}$

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

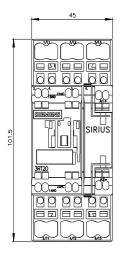
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2025-2KF40\&lang=ender.siemens.com/bilddb/cax_de.aspx.com/bilddb/cax_de.asp$

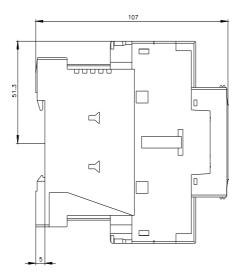
Characteristic: Tripping characteristics, I²t, Let-through current

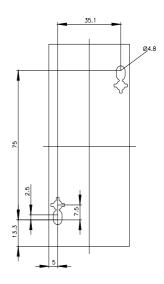
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2KF40/char

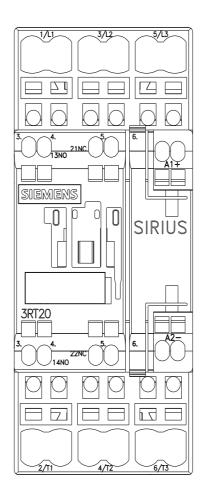
Further characteristics (e.g. electrical endurance, switching frequency)

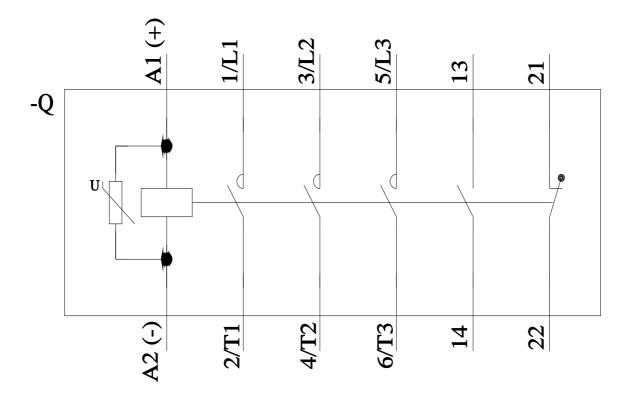
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-2KF40&objecttype=14&gridview=view1











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