SIEMENS

Data sheet 3RT2024-1AG60



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 100 V AC, 50 Hz / 100-110 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

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 	0.9 W		
 at AC in hot operating state per pole 	0.3 W		
without load current share typical	7.9 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	7,5g / 5 ms, 4,7g / 10 ms		
shock resistance with sine pulse			
• at AC	11,8g / 5 ms, 7,4g / 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 value 	40 A		
— up to 690 V at ambient temperature 60 °C rated	35 A		
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			
— 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	11.3 A		
— up to 690 V for current peak value n=20 rated value	9 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 value	10 mm²		
operational current for approx. 200000 operating cycles at			
AC-4	554		
at 400 V rated value	5.5 A		
at 690 V rated value	5.5 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 24 V rated value	20 A		
— at 60 V rated value	5 A		
— at 220 V rated value	1.4		
— at 440 V rated value			
	0.09 A 0.06 A		
— at 600 V rated value• with 2 current paths in series at DC-3 at DC-5	0.00 A		
— at 24 V rated value	25 A		
	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	05.4		
— 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	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			
— 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-			
• at 400 V rated value	2.6 kW		
at 400 v rated value	2.0 KVV		
at 690 V rated value	4.6 kW		
• at 690 V rated value	4.6 kW		
operating apparent power at AC-6a			
operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value	4.5 kVA		
 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 	4.5 kVA 7.8 kVA		
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 500 V for current peak value n=20 rated value	4.5 kVA 7.8 kVA 9.8 kVA		
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 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value	4.5 kVA 7.8 kVA		
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operating apparent power at AC-6a out to 230 V for current peak value n=20 rated value out to 400 V for current peak value n=20 rated value out to 500 V for current peak value n=20 rated value out to 690 V for current peak value n=20 rated value operating apparent power at AC-6a out to 230 V for current peak value n=30 rated value	4.5 kVA 7.8 kVA 9.8 kVA 10.7 kVA		
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control supply voltage at AC	
at 50 Hz rated value	100 V
at 60 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
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	68 VA
● at 60 Hz	67 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	7.9 VA
● at 60 Hz	6.5 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	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	
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	1.4
at 600 V rated value	0.15 A
operational current at DC-13	40.4
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	1.4
at 125 V rated value	0.9 A
at 220 V rated value at 600 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 A
	11 A
at 480 V rated value at 600 V rated value	11 /
• at 600 V rated value	11 A
at 600 V rated value yielded mechanical performance [hp]	11 A
at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor	
at 600 V rated value yielded mechanical performance [hp]	11 A 1 hp 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			
 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	85 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 			
— 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		
 for auxiliary and control circuit 	screw-type terminals		
 at contactor for auxiliary contacts 	Screw-type terminals		
of magnet coil	Screw-type terminals		
type of connectable conductor cross-sections for main contacts			
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
• solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
connectable conductor cross-section for main contacts			
• solid	1 10 mm²		
• stranded	1 10 mm²		
finely stranded with core end processing	1 10 mm²		
connectable conductor cross-section for auxiliary contacts			
• solid or stranded	0.5 2.5 mm²		
finely stranded with core end processing	0.5 2.5 mm ²		
type of connectable conductor cross-sections			
• for auxiliary contacts			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section			
• for main contacts	16 8		

20 14	
Yes	
450 000	
40 %	
73 %	
100 FIT	
20 a	
IP20	
finger-safe, for vertical contact from the front	
Yes	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



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





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













other Railway Environment

Confirmation



Confirmation

Vibration and Shock

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=3RT2024-1AG60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1AG60

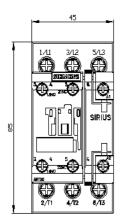
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

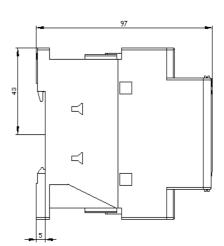
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AG60

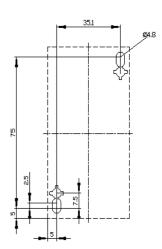
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

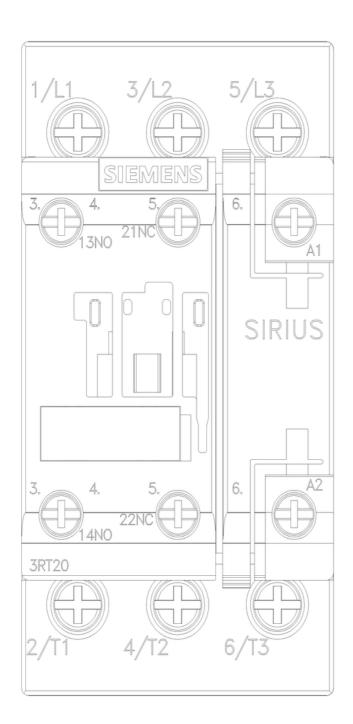
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-1AG60\&lang=en}}$

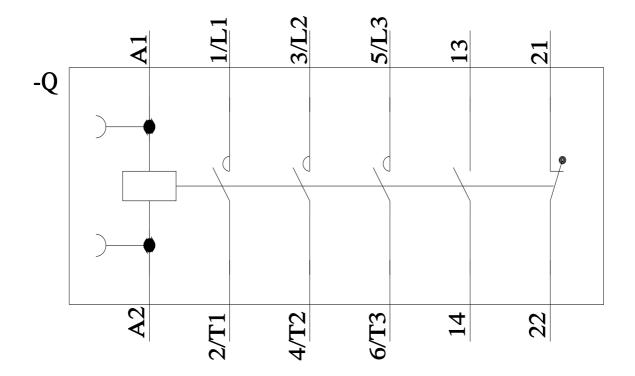
Characteristic: Tripping characteristics, I²t, Let-through current











last modified: 2/10/2023 🖸