## SIEMENS

## Data sheet

## 3RT2026-1AG60



power contactor, AC-3e/AC-3, 25 A, 11 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	SO
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
<ul> <li>without load current share typical</li> </ul>	10.5 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 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)	
<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	
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
<ul> <li>at AC-3e rated value maximum</li> </ul>	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	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
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	20.7 A
	20.2 A
— up to 230 V for current peak value n=20 rated value	
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	20.2 A 20.2 A
— up to 690 V for current peak value n=20 rated value	12.9 A
at AC-6a	12.9 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	13.5 A
— up to 200 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	10 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	9 A
at 690 V rated value	9A
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
<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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

— 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				
<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					
• 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					
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	8 kVA				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	13.9 kVA				
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	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					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	375 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 1's switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 3's switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10's switching at zero current maximum</li> <li>limited to 30's switching at zero current maximum</li> </ul>	144 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>Imited to 50's switching at zero current maximum</li> <li>Imited to 60's switching at zero current maximum</li> </ul>	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				
<ul><li> at AC-2 maximum</li><li> at AC-3 maximum</li></ul>	750 1/h				
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> </ul>	750 1/h 750 1/h				
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> </ul>	750 1/h				
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> </ul>	750 1/h 750 1/h				

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	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	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
<ul> <li>at 48 V rated value</li> </ul>	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	10 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 220 V rated value     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	
	21 A
at 480 V rated value	
• at 600 V rated value	22 A
yielded mechanical performance [hp]	
- for single phase AQ	
for single-phase AC motor	0 hz
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul>	2 hp 3 hp

• for 3-phase AC motor	
- at 200/208 V rated value	5 hp
- at 220/230 V rated value	5 hp 7.5 hp
— at 460/480 V rated value	
— at 575/600 V rated value	15 hp 20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	A00071000
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)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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	
<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
<ul> <li>for live parts</li> </ul>	
— 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	$\Omega_{11}(4 = 0.5 \text{ mm}^2)$ $\Omega_{12}(0.5 = 4.0 \text{ mm}^2)$
solid	$2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$
<ul> <li>solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	$2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 10 \text{ mm}^2)$ $2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 6 \text{ mm}^2), 1x 10 \text{ mm}^2$
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	1 10 mm <sup>2</sup>
• solid	1 10 mm <sup>2</sup>
<ul> <li>stranded</li> <li>finely stranded with core and processing</li> </ul>	1 10 mm <sup>2</sup>
finely stranded with core end processing	1 10 mm²
connectable conductor cross-section for auxiliary contacts <ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
	0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing	0.0 2.0 11111
type of connectable conductor cross-sections	
for auxiliary contacts     solid or stranded	$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2)$
<ul> <li>— solid or stranded</li> <li>finely stranded with core and processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross	2x (20 16), 2x (18 14)
section	

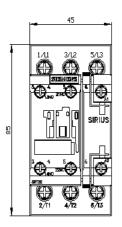
<ul> <li>for main contact</li> </ul>	cts	1	6 8			
<ul> <li>for auxiliary co</li> </ul>	ntacts	2	20 14			
Safety related data						
product function						
<ul> <li>mirror contact</li> </ul>	<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>					
B10 value with high d	lemand rate according to SN	31920 4	50 000			
proportion of dange	erous failures					
	nd rate according to SN 319	20 4	0 %			
	and rate according to SN 319		3 %			
	low demand rate according		00 FIT			
	t interval or service life acco		0 a			
61508			20 a			
protection class IP	on the front according to II	EC 60529	IP20			
touch protection on	the front according to IEC	60529 fi	finger-safe, for vertical contact from the front			
suitability for use						
<ul> <li>safety-related s</li> </ul>	switching OFF	Y	es			
Certificates/ approval	s					
General Product Ap	proval					
S.	<u>Confirmation</u>			<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity		Test Certificates		
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	
Marine / Shipping						
ABS	BUREAU VERITAS		Llovds Register us	RINA	KMRS RMRS	
other			Railway	Environment		
Confirmation		<u>Confirmation</u>	Vibration and Shock	Environmental Con- firmations		
Further information						
	ed to exit the Russian mark		mussion business			
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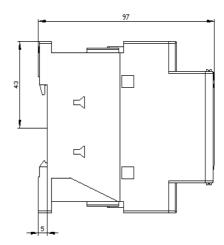
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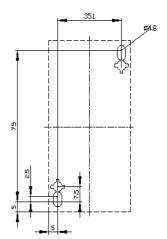
## Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AG60/char Further characteristics (e.g. electrical endurance, switching frequency)

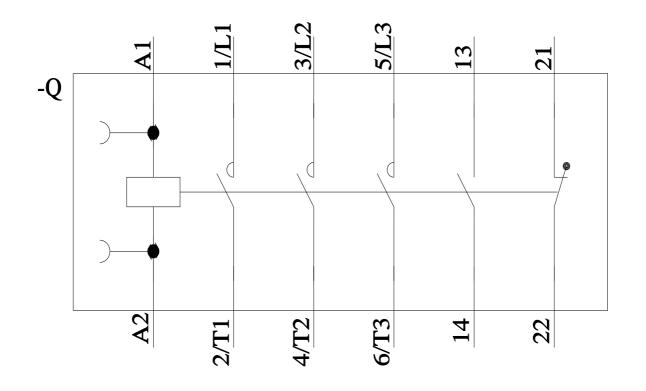
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