## **SIEMENS**

Data sheet 3RT2026-1AN60



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 200 V AC, 50 Hz / 200-220 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		
<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	
without load current share typical	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	
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)		
<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	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	40 A
value	
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	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
• 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 mm²
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
<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		
<ul> <li>at 400 V rated value</li> </ul>	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	
• 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	
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	9.3 kVA	
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	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		
	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	375 A; Use minimum cross-section acc. to AC-1 rated value	
Ilmited to 5 s switching at zero current maximum	300 A; Use minimum cross-section acc. to AC-1 rated value	
Ilmited to 10 s switching at zero current maximum     Ilmited to 20 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value	
Ilmited to 30 s switching at zero current maximum     Ilmited to 60 s switching at zero current maximum	144 A; Use minimum cross-section acc. to AC-1 rated value	
Iimited to 60 s switching at zero current maximum  no load switching frequency.	118 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	5 000 1/h	
• at AC	J 000 1/II	
operating frequency	1.000.1/b	
• at AC-1 maximum	1 000 1/h	
• at AC-2 maximum	750 1/h	
• at AC-3 maximum	750 1/h	
• at AC-3e maximum	750 1/h	
• at AC-4 maximum	250 1/h	
Control circuit/ Control		
type of voltage of the control supply voltage	AC	

control supply voltage at AC	
at 50 Hz rated value	200 V
at 60 Hz rated value	220 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	2.25
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	9 40 mg
at AC     opening delay	8 40 ms
• 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 A
at 600 V rated value	0.15 A
operational current at DC-13	40.0
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     at 125 V rated value	1 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>	0.9 A 0.3 A
at 220 V rated value     at 600 V rated value	0.3 A 0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	. waity officering por 100 million (11 v, 1 mill)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	21 A
at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	2 hp
at 220 V rated value	3 hp
— at 230 V rated value	- · · · · · · · · · · · · · · · · · · ·

0 (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 90V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA) 500 V, 1 kA) ation possible on vertical mounting surface; can be tilted forward and by +/- 22.5° on vertical mounting surface snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
(690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 90V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA) 500 V, 1 kA)  ation possible on vertical mounting surface; can be tilted forward and by +/- 22.5° on vertical mounting surface
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snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
terminals
terminals
terminals
terminals
5 mm²), 2x (2.5 10 mm²)
5 mm²), 2x (2.5 10 mm²)
5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
2
2
2
nm²
nm²
.5 mm²), 2x (0.75 2.5 mm²)
5 mm <sup>2</sup> ) 2x (0.75 2.5 mm <sup>2</sup> )
.5 mm²), 2x (0.75 2.5 mm²) 6), 2x (18 14)
e e e e e e e e e e e e e e e e e e e

• for main contacts	16 8	
<ul> <li>for auxiliary contacts</li> </ul>	20 14	
Safety related data		
product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
B10 value with high demand rate according to SN 31920	450 000	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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		
<ul> <li>safety-related switching OFF</li> </ul>	Yes	
Cortificatos/approvals		

Certificates/ approvals

## **General Product Approval**



Confirmation





<u>KC</u>



Functional Safety/Safety of Machinery	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).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

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=3RT2026-1AN60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1AN60

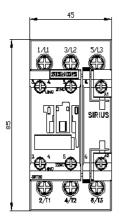
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

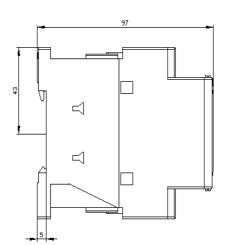
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1AN60

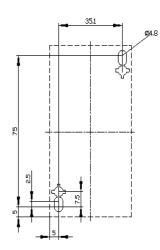
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

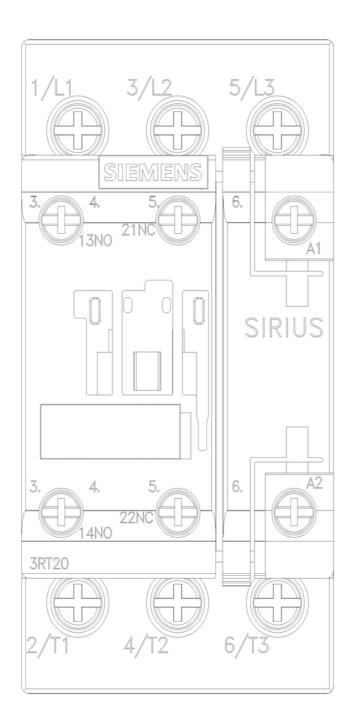
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2026-1AN60&lang=en

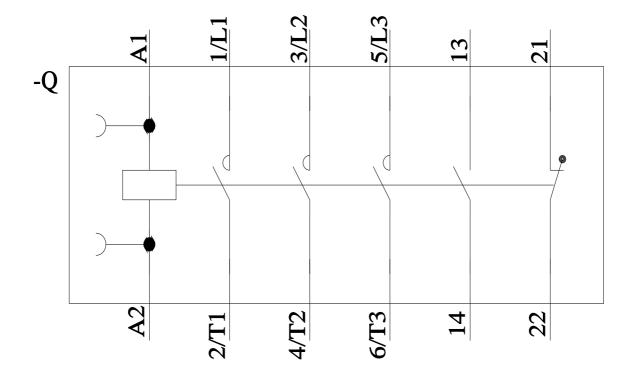
Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1AN60&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1AN60&objecttype=14&gridview=view1</a>











last modified: 2/10/2023 🖸