## **SIEMENS**

Data sheet 3RT2026-2CV60



power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, 480 V AC, 60 Hz 3-pole, Size S0 Spring-type terminal with varistor

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 at AC in hot operating state	4.8 W
per pole	1.6 W
power loss [W] for rated value of the current without load current share typical	9.4 W
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 safe isolation between coil and main contacts acc. 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 (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C
ambient temperature during storage	-55 +80 °C
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

operational current	
at AC-1 at 400 V at ambient temperature 40 °C  reted value.	40 A
rated value  ■ at AC-1	
— up to 690 V at ambient temperature 40 °C	40 A
rated value	40 A
— up to 690 V at ambient temperature 60 °C	35 A
rated 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
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	15.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	35.2 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	20.7 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	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
<ul> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated</li> </ul>	13.5 A
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  minimum cross-section in main circuit at maximum AC-1	10 mm <sup>2</sup>
rated value	10 111111-
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	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 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value — at 600 V rated value	0.4 A 0.25 A
	0.25 A
with 2 current paths in series at DC-1  at 24 V reted value.	25 A
— at 24 V rated value	35 A 35 A
— at 110 V rated value — at 220 V rated value	5 A
	1 A
— at 440 V rated value — at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	0.071
— at 24 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
operational current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 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 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 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	11 kW		
• 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		
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 kV·A		
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	13.9 kV·A		
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	17.4 kV·A		
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	15.4 kV·A		
operating apparent power at AC-6a			
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	5.3 kV·A		
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	9.3 kV·A		
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	11.6 kV·A		
up to 690 V for current peak value n=30 rated value	15.5 kV·A		
short-time withstand current in cold operating state			
up to 40 °C	075 A 11		
Iimited to 1 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value		
Ilimited to 5 s switching at zero current maximum	299 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 10 s switching at zero current maximum     limited to 20 a quitabling at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 30 s switching at zero current maximum     limited to 60 a quitabling at zero current maximum	128 A; Use minimum cross-section acc. to AC-1 rated value		
Iimited to 60 s switching at zero current maximum  no load switching frequency.	106 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency  • at AC	5 000 1/b		
	5 000 1/h		
operating frequency  • at AC-1 maximum	1 000 1/h		
at AC-1 maximum     at AC-2 maximum	750 1/h		
at AC-2 maximum     at AC-3 maximum	750 1/h		
• at AC-4 maximum	250 1/h		
Control circuit/ Control	200 1/11		
	AC		
type of voltage of the control supply voltage	AC		
control supply voltage at AC  • at 60 Hz rated value	480 V		
	400 V		
operating range factor control supply voltage rated value of magnet coil at AC			
• at 60 Hz	0.85 1.1		
design of the surge suppressor	with varistor		
* *			

apparent pick-up power of magnet coil at AC  • at 60 Hz	87 V·A
inductive power factor with closing power of the coil	OFFA
• at 60 Hz	0.76
apparent holding power of magnet coil at AC	
• at 60 Hz	9.4 V·A
inductive power factor with the holding power of the	3.4 V A
coil	
● 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	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	
<ul> <li>at 230 V rated value</li> </ul>	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
● at 48 V rated value	2 A
<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
● at 125 V rated value	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	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	
<ul> <li>at 480 V rated value</li> </ul>	21 A
at 600 V rated value	22 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 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

- with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)

gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)

gG: 10 A (500 V, 1 kA)

stallation/ mounting/ dimensions		
	1/ 100° rotation possible on vertical requalities confered as the filter	
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 standard mounting rail according to DIN EN 60715	
<ul> <li>side-by-side mounting</li> </ul>	Yes	
height	102 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	
onnections/ 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)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)	
finely stranded without core end processing	2x (1 6 mm²)	
at AWG cables for main contacts	2x (18 8)	
connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
• stranded	1 10 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	1 6 mm²	
• finally atranded without care and processing	1 6 mm <sup>2</sup>	

for auxiliary contacts— solid or stranded

solid or stranded

contacts

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• finely stranded without core end processing

connectable conductor cross-section for auxiliary

• finely stranded with core end processing

type of connectable conductor cross-sections

• finely stranded without core end processing

- finely stranded with core end processing

1 ... 6 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

0.5 ... 1.5 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

2x (0.5 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²)

<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 14)	
<ul> <li>AWG number as coded connectable conductor cross section for main contacts</li> </ul>	18 8	
<ul> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul>	20 14	
Safety related data		
B10 value with high demand rate acc. to SN 31920	1 000 000	
proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	40 %	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	73 %	
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT	
product function		
<ul> <li>mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes	
T1 value for proof test interval or service life acc. to IEC 61508	20 y	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
suitability for use safety-related switching OFF	Yes	
Certificates/ approvals		
General Product Approval		FMC

General Product Approval

EMC







<u>KC</u>





**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



Miscellaneous

**Special Test** Certificate

Type Test **Certificates/Test** Report





Marine / Shipping

other











Confirmation

other



Confirmation

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=3RT2026-2CV60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2CV60

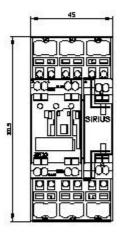
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

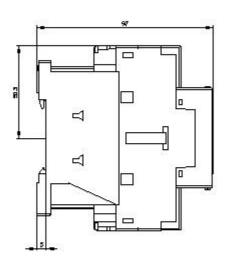
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2CV60

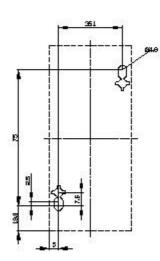
Characteristic: Tripping characteristics, I²t, Let-through current

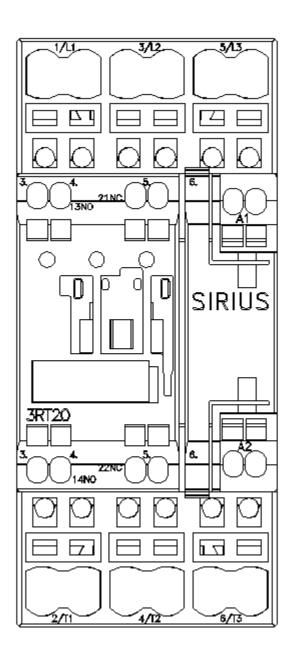
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2CV60/char

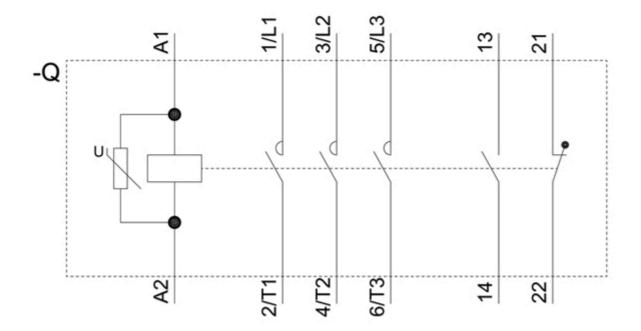
Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2CV60&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2CV60&objecttype=14&gridview=view1</a>











last modified: 12/21/2020 🖸