SIEMENS

Data sheet 3RT2026-2CV60



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 480 V AC, 60 Hz, with plugged-in varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded 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 	5.7 W	
 at AC in hot operating state per pole 	1.9 W	
without load current share typical	9.4 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	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)		
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	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
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 	

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— 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	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	
• 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		
 up to 230 V for current peak value n=20 rated value 	8 kVA	
 up to 400 V for current peak value n=20 rated value 	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	
• 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		
limited to 1 s switching at zero current maximum	375 A; Use minimum cross-section acc. to AC-1 rated value	
Ilmited to 1's switching at zero current maximum Imited to 5 s switching at zero current maximum		
Ilmited to 5 s switching at zero current maximum Imited to 10 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 Imited to 30's switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value 144 A; Use minimum cross-section acc. to AC-1 rated value	
Ilmited to 50 s switching at zero current maximum Imited to 60 s switching at zero current maximum	118 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	110 A, 030 Hillimum 01033-360tion add. to AO-1 rated value	
at AC	5 000 1/h	
	5 000 1/h	
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	
type of voltage of the control supply voltage control supply voltage at AC	AC	
at 60 Hz rated value	480 V	
operating range factor control supply voltage rated value of magnet coil at AC	700 V	
• 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 VA	
inductive power factor with closing power of the coil		
• at 60 Hz	0.76	
apparent holding power of magnet coil at AC		
• at 60 Hz	9.4 VA	
inductive power factor with the holding power of the 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 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	
at 60 V rated value at 110 V rated value	6 A	
at 110 V rated value at 125 V rated value	3 A	
 at 125 V rated value at 220 V rated value 	2 A 1 A	
at 220 V rated value at 600 V rated value	0.15 A	
operational current at DC-13	0.10 A	
at 24 V rated value	10 A	
at 48 V rated value at 48 V rated value	2 A	
at 60 V rated value at 60 V rated value	2 A	
at 110 V rated value	1A	
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	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 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 700/700 V lated value	TO THE	

— at 575/600 V rated value	20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
nort-circuit protection	
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)
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
stallation/ 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 102 mm
neight width	45 mm
depth	97 mm
required spacing	57 (((()))
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
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)
 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	25 25 3
solid or stranded	0.5 2.5 mm ²
finely stranded with core end processing finely stranded without core and processing	0.5 1.5 mm ²
finely stranded without core end processing	0.5 2.5 mm ²
una of connectable conductor conservations	
type of connectable conductor cross-sections	
for auxiliary contacts	2v /0 F 2 F mm²\
for auxiliary contacts — solid or stranded	2x (0.5 2.5 mm²)
for auxiliary contacts — solid or stranded — finely stranded with core end processing	2x (0.5 1.5 mm²)
for auxiliary contacts — solid or stranded	

• 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
Cartificates/approvals	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



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





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













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,...)

 $\underline{\text{https://www.siemens.com/ic10}}$

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

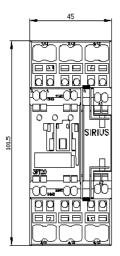
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

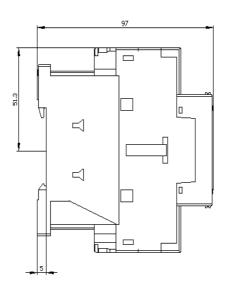
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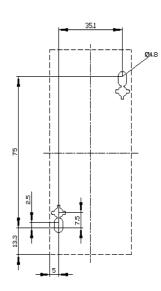
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

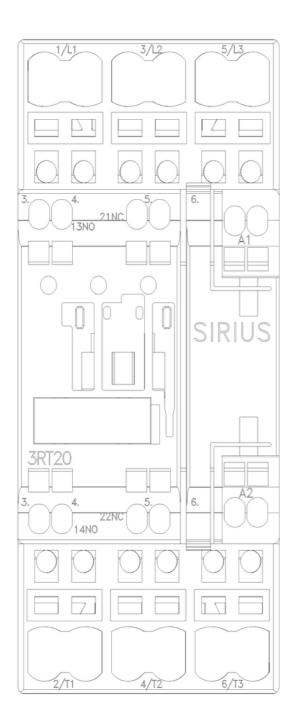
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2CV60&lang=en

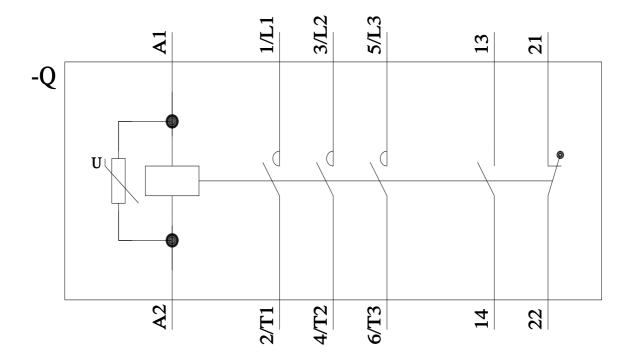
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