# **SIEMENS**

Data sheet 3RT2526-1AP00

Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 230 V AC, 50 Hz 4-pole size S0 screw terminals 1 NO + 1 NC integrated



Product brand name	SIRIUS
Product designation	contactor
Product type designation	3RT25

S0
No
Yes
6 kV
6 kV
400 V
IP20
IP20
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)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronics-</li> </ul>	5 000 000
compatible auxiliary switch block typical	
<ul> <li>of the contactor with added auxiliary switch</li> </ul>	10 000 000
block typical	
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	4
Number of NO contacts for main contacts	2
Number of NC contacts for main contacts	2
Operating current	
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	40 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	35 A
• at AC-2 at AC-3 at 400 V	
<ul> <li>per NO contact rated value</li> </ul>	25 A
— per NC contact rated value	25 A
Connectable conductor cross-section in main circuit	
at AC-1	
• at 60 °C minimum permissible	10 mm²
at 40 °C minimum permissible	10 mm²
Operating current	
• at 1 current path at DC-1	25.4
— 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	0.4 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 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
Operating current	
• at 1 current path at DC-3 at DC-5	
<ul> <li>— at 24 V per NC contact rated value</li> </ul>	20 A
— at 24 V per NO contact rated value	20 A
<ul> <li>— at 110 V per NC contact rated value</li> </ul>	1.25 A
— at 110 V per NO contact rated value	2.5 A
<ul> <li>— at 220 V per NC contact rated value</li> </ul>	0.5 A
— at 220 V per NO contact rated value	1 A
— at 440 V per NC contact rated value	0.045 A
— at 440 V per NO contact rated value	0.09 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
<ul> <li>— at 24 V per NC contact rated value</li> </ul>	35 A
— at 24 V per NO contact rated value	35 A
— at 110 V per NC contact rated value	7.5 A
— at 110 V per NO contact rated value	15 A
<ul> <li>— at 220 V per NC contact rated value</li> </ul>	1.5 A
— at 220 V per NO contact rated value	3 A
— at 440 V per NC contact rated value	0.135 A
— at 440 V per NO contact rated value	0.27 A
Operating power	
● at AC-1	
— at 230 V rated value	15 kW
— at 400 V rated value	26 kW
• at AC-2 at AC-3	
<ul> <li>— at 230 V per NC contact rated value</li> </ul>	5.5 kW
— at 230 V per NO contact rated value	5.5 kW
<ul> <li>— at 400 V per NC contact rated value</li> </ul>	11 kW
— at 400 V per NO contact rated value	11 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	1.6 W
No-load switching frequency	
• at AC	5 000 1/h
• at DC	1 500 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	000.1/
• at 50 Hz rated value	230 V

Operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
Apparent pick-up power of magnet coil at AC	77 V·A
● at 50 Hz	77 V·A
Inductive power factor with closing power of the coil	0.82
● at 50 Hz	0.82
Apparent holding power of magnet coil at AC	9.8 V·A
● at 50 Hz	9.8 V·A
Inductive power factor with the holding power of the coil	0.25
● at 50 Hz	0.25
Closing delay	
• at AC	8 40 ms
Opening delay	
• at AC	4 16 ms
Arcing time	10 10 ms
Residual current of the electronics for control with	
signal <0>	
<ul> <li>at AC at 230 V maximum permissible</li> </ul>	0.007 A
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
• instantaneous contact	1
Number of NO contacts for auxiliary contacts	
Number of NO contacts for auxiliary contacts  • instantaneous contact	1
·	1 10 A
• instantaneous contact	
• instantaneous contact  Operating current at AC-12 maximum	
• instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15	10 A
<ul> <li>instantaneous contact</li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15</li> <li>at 230 V rated value</li> </ul>	10 A 10 A
instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15      at 230 V rated value      at 400 V rated value	10 A 10 A 3 A
<ul> <li>instantaneous contact</li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> </ul>	10 A 10 A 3 A 2 A
<ul> <li>instantaneous contact</li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> </ul>	10 A 10 A 3 A 2 A
instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15      at 230 V rated value     at 400 V rated value     at 500 V rated value     at 690 V rated value  Operating current at DC-12	10 A  10 A  3 A  2 A  1 A
instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15      at 230 V rated value     at 400 V rated value     at 500 V rated value     at 690 V rated value  Operating current at DC-12      at 24 V rated value	10 A  10 A  3 A  2 A  1 A
instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15      at 230 V rated value     at 400 V rated value     at 500 V rated value     at 690 V rated value  Operating current at DC-12      at 24 V rated value     at 48 V rated value	10 A  10 A  3 A  2 A  1 A  10 A
instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  tat 690 V rated value  output  output  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value	10 A  10 A  3 A  2 A  1 A  10 A  6 A  6 A
instantaneous contact  Operating current at AC-12 maximum  Operating current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  at 690 V rated value  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value	10 A  10 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A

Operating current at DC-13 • at 24 V rated value

• at 48 V rated value

10 A 2 A

• at 60 V rated value	2 A
• at 110 V rated value	1 A
• 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	
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
Contact rating of auxiliary contacts according to UL	A600 / Q600

### 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: 63 A (690 V, 100 kA)

gG: 35A (690V, 50kA)

fuse gG: 10 A

nstallation/ mounting/ dimensions	
Mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Side-by-side mounting	Yes
Height	85 mm
Width	61 mm
Depth	97 mm
Required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	6 mm

— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm

Connections/Terminals	
Type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>single or multi-stranded</li> </ul>	2x (1 2,5 mm²), 2x (2,5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (16 12), 2x (14 8)
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul><li>— single or multi-stranded</li></ul>	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)
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section for main contacts	16 8

Safety related data	
Product function	
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes
<ul><li>positively driven operation acc. to IEC 60947-5-</li></ul>	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Protection against electrical shock	finger-safe

# Certificates/approvals

### **General Product Approval**

**EMC** 

Functional Safety/Safety of Machinery





EG-Konf.





Marine / Shipping





Type Examination

Declaration of	Test
Conformity	Certificates









GL

other



LRS

## Marine / Shipping









Confirmation



### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2526-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-1AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AP00

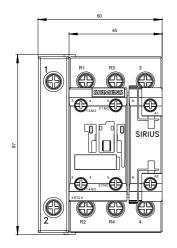
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2526-1AP00&lang=en

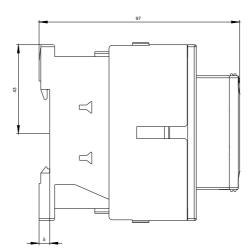
Characteristic: Tripping characteristics, I2t, Let-through current

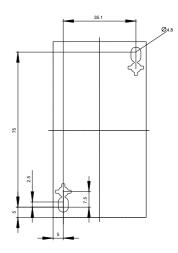
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AP00/char

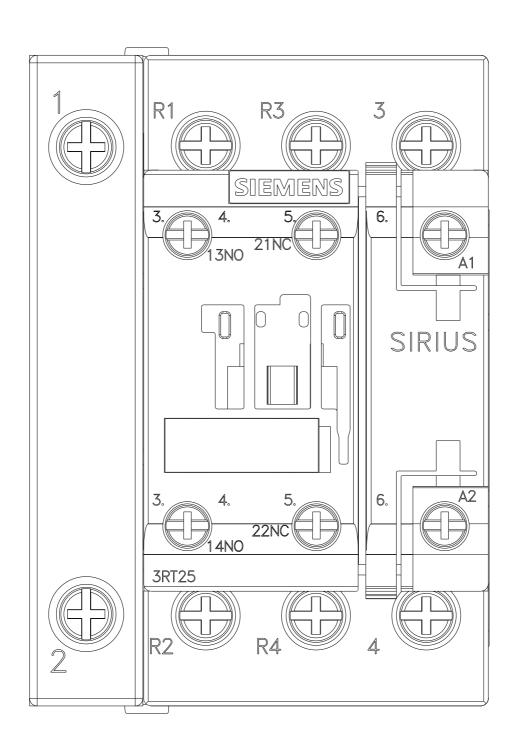
Further characteristics (e.g. electrical endurance, switching frequency)

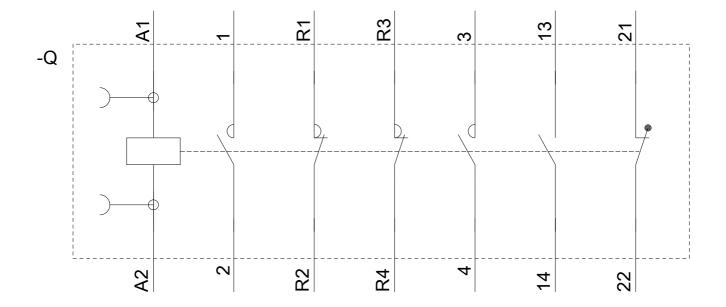
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1AP00&objecttype=14&gridview=view1











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