SIEMENS

Data sheet 3RT2526-1AB00

Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 24 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

General technical data	
S0	
No	
Yes	
690 V	
690 V	
6 kV	
6 kV	
400 V	

Protection class IP	
• on the front	IP20
of the terminal	IP20
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)	
of contactor typical	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch	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	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Main circuit Number of poles for main current circuit	4
	4 2
Number of poles for main current circuit	
Number of poles for main current circuit Number of NO contacts for main contacts	2
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts	2
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current	2
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C	2 2
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C	2 2 40 A
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value	2 2 40 A
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V	2 2 40 A 35 A
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value	2 2 40 A 35 A
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value	2 2 40 A 35 A
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value Minimum cross-section in main circuit	2 2 40 A 35 A 25 A 25 A
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value Minimum cross-section in main circuit • at maximum AC-1 rated value	2 2 40 A 35 A 25 A 25 A
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value Minimum cross-section in main circuit • at maximum AC-1 rated value Operating current	2 2 40 A 35 A 25 A 25 A
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value Minimum cross-section in main circuit • at maximum AC-1 rated value Operating current • at 1 current path at DC-1	2 2 40 A 35 A 25 A 25 A 10 mm ²
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value Minimum cross-section in main circuit • at maximum AC-1 rated value Operating current • at 1 current path at DC-1 — at 24 V rated value	2 2 40 A 35 A 25 A 25 A 10 mm ²
Number of poles for main current circuit Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value Minimum cross-section in main circuit • at maximum AC-1 rated value Operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value	2 2 40 A 35 A 25 A 25 A 10 mm ²

— 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	
— at 24 V per NC contact rated value	20 A
— at 24 V per NO contact rated value	20 A
— at 110 V per NC contact rated value	1.25 A
— at 110 V per NO contact rated value	2.5 A
— at 220 V per NC contact rated value	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
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V per NC contact rated value	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
— at 220 V per NC contact rated value	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	
 — at 230 V per NC contact rated value 	5.5 kW
— at 230 V per NO contact rated value	5.5 kW
— at 400 V per NC contact rated value	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	1.6 W
the operating current per conductor	
No-load switching frequency	E 000 4/b
• at AC	5 000 1/h
• at DC	1 500 1/h
Operating frequency	1 000 1/h
• at AC-1 maximum	1 000 1/11
Control circuit/ Control	
Type of voltage of the control supply voltage	AC

Control supply voltage at AC	
• at 50 Hz rated value	24 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>	
• at AC at 230 V maximum permissible	0.007 A
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	

Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
• instantaneous contact	1
Number of NO contacts for auxiliary contacts	
• instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating 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
Operating 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
Operating 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 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]	
 for single-phase AC motor 	
— 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: 35 A (690 V, 50 kA)

fuse gG: 10 A

nstallation/ mounting/ dimensions	1/190° rotation possible on vertical mounting ourfaces can be
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	
with side-by-side mounting	
— 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
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 single or multi-stranded 	2x (1 2,5 mm²), 2x (2,5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 at AWG conductors for main contacts 	2x (16 12), 2x (14 8)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 single or multi-stranded 	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)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section for main contacts	16 8

Safety related data	
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
positively driven operation acc. to IEC 60947-5-	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











Type Examination
Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other









Confirmation



Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2526-1AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-1AB00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AB00

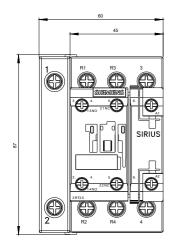
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1AB00&lang=en

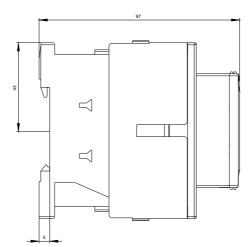
Characteristic: Tripping characteristics, I²t, Let-through current

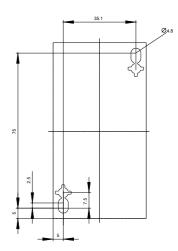
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AB00/char

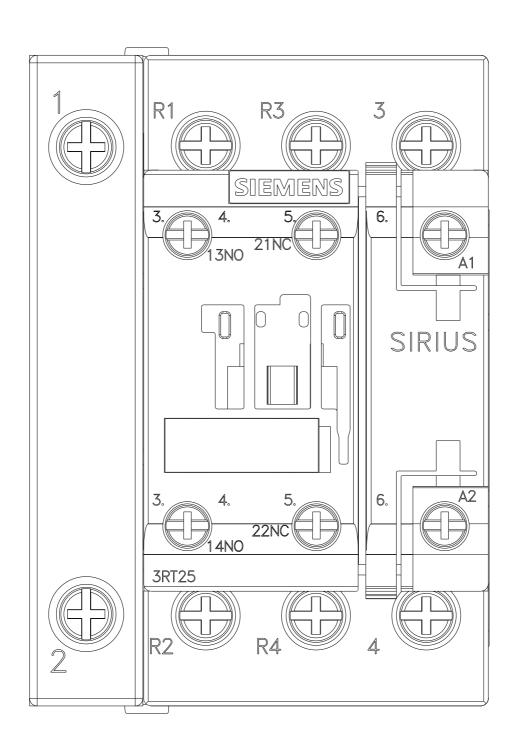
Further characteristics (e.g. electrical endurance, switching frequency)

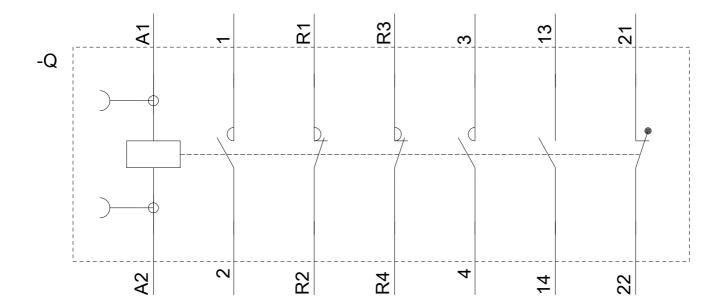
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1AB00&objecttype=14&gridview=view1











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