SIEMENS

Data sheet	3RT2526-1BB40
	Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 24 V DC 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	
Size of contactor	S0
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Surge voltage resistance	
of main circuit rated value	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
Protection class IP	
• on the front	IP20
of the terminal	IP20
Shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
Shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
of the contactor with added electronics-	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch block typical 	10 000 000
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	

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	
 up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-2 at AC-3 at 400 V	
 per NO contact rated value 	25 A
 per NC contact rated value 	20 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	
— 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
 with 2 current paths in series at DC-1 	
— 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	7.5 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	
• 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	DC
Type of voltage of the control supply voltage Control supply voltage at DC	DC
***	DC 24 V
Control supply voltage at DC	
Control supply voltage at DC • rated value	
Control supply voltage at DC • rated value Operating range factor control supply voltage rated	
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC	24 V
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC	24 V 0.8 1.1 5.9 W
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC	0.8 1.1
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay	24 V 0.8 1.1 5.9 W 5.9 W
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC	24 V 0.8 1.1 5.9 W
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay	24 V 0.8 1.1 5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC	0.8 1.1 5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay	24 V 0.8 1.1 5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC	0.8 1.1 5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time	0.8 1.1 5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Auxiliary circuit	0.8 1.1 5.9 W 5.9 W 50 170 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Auxiliary circuit Number of NC contacts for auxiliary contacts	0.8 1.1 5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact	0.8 1.1 5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts	24 V 0.8 1.1 5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms
Control supply voltage at DC • rated value Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Closing power of magnet coil at DC Holding power of magnet coil at DC Closing delay • at DC Opening delay • at DC Arcing time Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact	24 V 0.8 1.1 5.9 W 5.9 W 50 170 ms 15 17.5 ms 10 10 ms

Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 600 V rated value	0.1 A
• at 220 V rated value	0.3 A
• at 125 V rated value	0.9 A
• at 110 V rated value	1 A
• at 60 V rated value	2 A
• at 48 V rated value	2 A
• at 24 V rated value	10 A
Operating current at DC-13	
• at 600 V rated value	0.15 A
• at 220 V rated value	1 A
• at 125 V rated value	2 A
• at 110 V rated value	3 A
• at 60 V rated value	6 A
• at 48 V rated value	6 A
• at 24 V rated value	10 A
Operating current at DC-12	
• at 690 V rated value	1 A
• at 500 V rated value	2 A
• at 400 V rated value	3 A
 at 230 V rated value 	10 A

Contact reliability of daxillary contacts	ridaity ewitering per recomment (17 v, 1111)
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 	gG: 63 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 35 A (690 V, 50 kA)
• for short-circuit protection of the auxiliary switch	fuse gG: 10 A
required	

Installation/ 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	107 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	2v /0 F 4 F mm²) 2v /0 7F 2 F²\
— 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)

Safety related data

section for main contacts

AWG number as coded connectable conductor cross

16 ... 8

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

Dec	laration) Of
Con	formity	

Test Certific-

Marine / Shipping

ates



Type Test Certificates/Test Report





other





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=3RT2526-1BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-1BB40

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

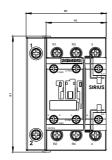
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1BB40

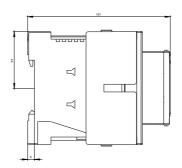
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1BB40&lang=en

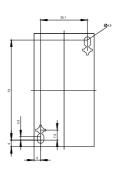
Characteristic: Tripping characteristics, I2t, Let-through current

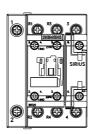
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1BB40/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1BB40&objecttype=14&gridview=view1









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