SIEMENS

Data sheet 3RT2526-1BM40



power contactor, AC-3, 25 A, 11 kW / 400 V, 4-pole, 220 V DC, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	SO
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 per pole 	1.9 W
without load current share typical	5.9 W
type of calculation of power loss depending on pole	quadratic
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 DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 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
Weight	0.656 kg
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 %
Environmental footprint	

	V.
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	221 kg
Global Warming Potential [CO2 eq] during manufacturing	2.65 kg
Global Warming Potential [CO2 eq] during operation	219 kg
Global Warming Potential [CO2 eq] after end of life	-0.639 kg
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
operational current	
 at AC-1 up to 690 V — at ambient temperature 40 °C rated value 	40.4
— at ambient temperature 40°C rated value — at ambient temperature 60°C rated value	40 A 35 A
at AC-2 at AC-3 at 400 V	35 A
— per NO contact rated value	25 A
— per NC contact rated value — per NC contact rated value	20 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm²
value	10 mm
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	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
• at 1 current path at DC-3 at DC-5	00.4
— at 24 V per NC contact rated value	20 A
— at 24 V per NO contact rated value	20 A 1.25 A
— at 110 V per NC contact rated value— 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	1A
— 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-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
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching 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	128 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	106 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	1.9 W
power loss [W] at AC-3e at 400 V for rated value of the	1.9 W

Operating frequency		
* at AC 1500 th 1500 t	operational current per conductor	
a st DC	no-load switching frequency	
Special Processing P	• at AC	5 000 1/h
### AC-1 maximum Type of voitage of the control supply voltage Type of voltage of the control supply voltage Type of voltage of the control supply voltage rated value of magnet coil at DC ### All Ac-1 maximum ### Al	• at DC	1 500 1/h
Security Control Con	operating frequency	
Special control supply voltage at DC rated value 220 V	at AC-1 maximum	1 000 1/h
Description supply voltage at DC rated value of sepretary care factor control supply voltage rated value of sepretary care factor control supply voltage rated value of serial value of seri	Control circuit/ Control	
Operating range factor control supply voltage rated value of milital value full scale	type of voltage of the control supply voltage	DC
magnet coil at DC • Initial value • Initial v	control supply voltage at DC rated value	220 V
• full-scale value		
Looking power of magnet coil at DC holding power of magnet coil at DC closing fielday a LDC opening delay a LDC sorting time ALDC arcing time ALDC 15 18 ms 10 10 ms 10 10 ms Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact cont	initial value	0.8
holding power of magnet coll at DC closing delay	full-scale value	1.1
closing delay	closing power of magnet coil at DC	5.9 W
• at DC opening delay • at DC archag time Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 4500 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 600 V	holding power of magnet coil at DC	5.9 W
April C	closing delay	
15 18 ms 10 10 10 ms 10 10		50 170 ms
Auxiliary circuit Tumber of NC contacts for auxiliary contacts instantaneous contact Contact In umber of NO contacts for auxiliary contacts instantaneous Contact Operational current at AC-12 maximum Operational current at AC-12 maximum Operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 490 V rated value • at 690 V rated value • at 690 V rated value • at 424 V rated value • at 484 V rated value • at 480 V rated value • at 600 V rated value • at 125		
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contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 890 V rated value • at 180 V rated value • at 180 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 180 V rated value • at 890 V rated value • at 180 V rated value • at 80		
operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 600 V rated value • at 125 V rated value • at 126 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 129 V rated value • at 120 V rated value •	contact	
0		1
• at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 44 V rated value • at 45 V rated value • at 46 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 800 V rated value • at 800 V rated value • at 600 V rated value • at 125 V rated value • at 110 V rated value • at 125 V rated value • a		10 A
at 400 V rated value	operational current at AC-15	
• at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 60 V rated value • at 8 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 60 V rated valu	at 230 V rated value	
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— with type of assignment 2 required gG: 35 A (690 V, 50 kA) • for short-circuit protection of the auxiliary switch required fuse gG: 10 A Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and		aC+62 A (600 V 400 kA)
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mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and	· · · · · · · · · · · · · · · · · · ·	iuse go: 10 A
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface.		1/4000
	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface

fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
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 circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	71
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or 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
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or 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)
for AWG cables 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 according to IEC 60947-4-1	Yes
-	No
 positively driven operation according to IEC 60947-5-1 	
• positively driven operation according to IEC 60947-5-1 Electrical Safety	
Electrical Safety	IP20
	IP20 finger-safe, for vertical contact from the front







Confirmation





EMV Test Certificates Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping other Railway







Miscellaneous

Confirmation

Special Test Certificate

Dangerous goods

Environment

Transport Information



Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2526-1BM40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-1BM40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1BM40

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

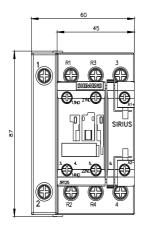
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1BM40\&lang=en}}$

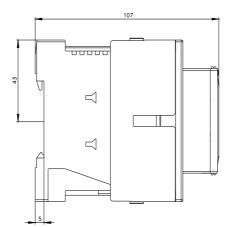
Characteristic: Tripping characteristics, I2t, Let-through current

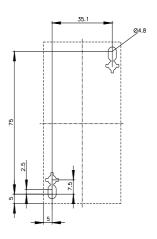
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1BM40/char

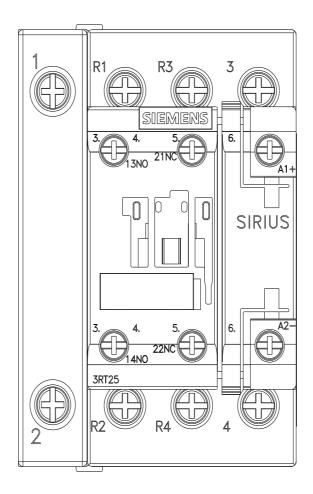
Further characteristics (e.g. electrical endurance, switching frequency)

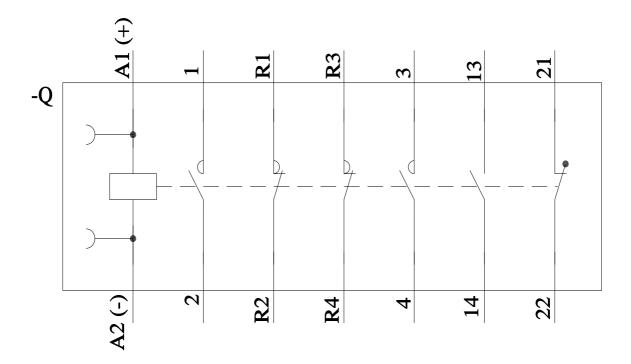
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1BM40&objecttype=14&gridview=view1











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