SIEMENS

Data sheet 3RT2526-1AG20



power contactor, AC-3, 25 A, 11 kW / 400 V, 4-pole, 110 V AC, 50/60 Hz, 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	S0	
product extension		
 function module for communication 	No	
auxiliary switch	Yes	
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	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 — at ambient temperature 60 °C rated value 35 A 	
— 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 25 A	
minimum cross-section in main circuit at maximum AC-1 rated value 10 mm ²	
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	
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-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	
short-time withstand current in cold operating state up to 40 °C	
	se minimum cross-section acc. to AC-1 rated value
·	se minimum cross-section acc. to AC-1 rated value
	se minimum cross-section acc. to AC-1 rated value
	se minimum cross-section acc. to AC-1 rated value
	se minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the 1.6 W	
operational current per conductor	
no-load switching frequency	
• at AC 5 000 1/h	
• at DC 1/b	
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	
at 50 Hz rated value at 60 Hz rated value 110 V 110 V	
operating range factor control supply voltage rated value of magnet coil at AC	

• at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	77 VA
● at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	0.82
● at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	10.5 VA
● at 50 Hz	10.5 VA
● at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	0.25
● at 50 Hz	0.25
• at 60 Hz	0.28
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	
at AC at 230 V maximum permissible	0.007 A
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
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	
 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
operational 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]	
) h	
• for single-phase AC motor at 230 V rated value	3 hp
	3 hp 15 hp
• for single-phase AC motor at 230 V rated value	
 for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value 	15 hp
for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL	15 hp
for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	15 hp
for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit	15 hp A600 / Q600
for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required	15 hp A600 / Q600 gG: 63 A (690 V, 100 kA)
for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit	15 hp A600 / Q600

mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward a
	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 5002
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
onnections/ 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	
• 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
afety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
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



Confirmation









Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping

other











Confirmation

other

Railway

Environment



Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2526-1AG20

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2526-1AG20}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AG20

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

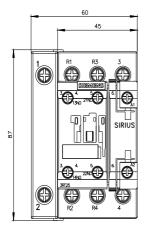
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1AG20&lang=en

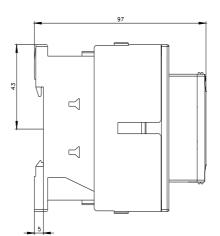
Characteristic: Tripping characteristics, I2t, Let-through current

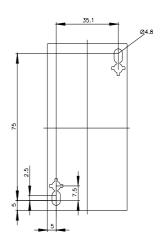
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AG20/char

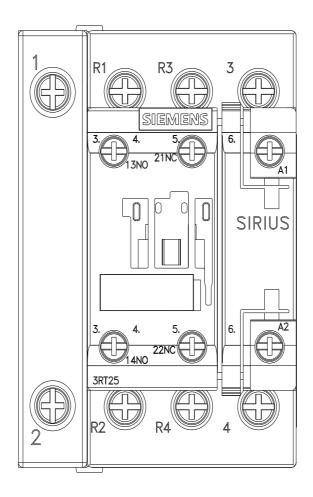
Further characteristics (e.g. electrical endurance, switching frequency)

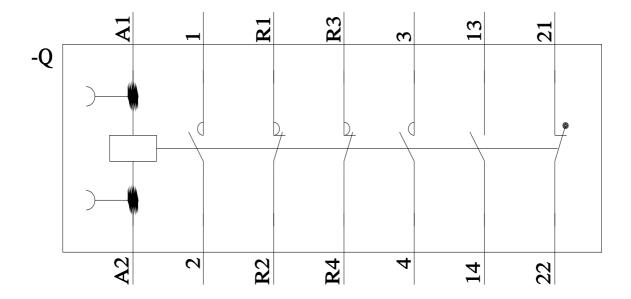
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1AG20&objecttype=14&gridview=view1











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