SIEMENS

Data sheet 3RT2526-1AK60



power contactor, AC-3, 25 A, 11 kW / 400 V, 4-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S_0

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 40 A	Δ
— at ambient temperature 60 °C rated value 35 A	4
• at AC-2 at AC-3 at 400 V	
— per NO contact rated value 25 A	
— per NC contact rated value 25 A	4
minimum cross-section in main circuit at maximum AC-1 rated value	mm²
operational current	
• at 1 current path at DC-1	
— at 24 V rated value 35 A	A
— at 110 V rated value 4.5 A	A
— at 220 V rated value 1 A	
— at 440 V rated value 0.4 A	A
with 2 current paths in series at DC-1	
— at 24 V rated value 35 A	A
— at 110 V rated value 35 A	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	
— at 24 V per NC contact rated value 20 A	4
— at 24 V per NO contact rated value 20 A	4
- at 110 V per NC contact rated value 1.25	5 A
— at 110 V per NO contact rated value 2.5 A	A
— at 220 V per NC contact rated value 0.5 A	A
— at 220 V per NO contact rated value 1 A	
— at 440 V per NC contact rated value 0.04	45 A
— at 440 V per NO contact rated value 0.09	9 A
with 2 current paths in series at DC-3 at DC-5	
— at 24 V per NC contact rated value 35 A	4
— at 24 V per NO contact rated value 35 A	4
— at 110 V per NC contact rated value7.5 A	A
— at 110 V per NO contact rated value 15 A	4
— at 220 V per NC contact rated value 1.5 A	A
— at 220 V per NO contact rated value 3 A	
— at 440 V per NC contact rated value0.13	35 A
— at 440 V per NO contact rated value 0.27	7 A
operating power at AC-2 at AC-3	
• at 230 V per NC contact rated value 5.5 k	kW
• at 230 V per NO contact rated value 5.5 k	kW
• at 400 V per NC contact rated value 11 k	νW
• at 400 V per NO contact rated value 11 k	νW
short-time withstand current in cold operating state up to 40 °C	
	A; Use minimum cross-section acc. to AC-1 rated value
	A; Use minimum cross-section acc. to AC-1 rated value
3	A; Use minimum cross-section acc. to AC-1 rated value
9	A; Use minimum cross-section acc. to AC-1 rated value
9	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	
no-load switching frequency	
	00 1/h
	00 1/h
operating frequency	
	00 1/h
Control circuit/ Control	W 1/11
31	
control supply voltage at AC • at 50 Hz rated value 110	V
at 50 Hz rated value at 60 Hz rated value 120	
operating range factor control supply voltage rated value of	v
CONTRACTOR LABOR LACTOR COMMON STROOM VOIGAGE PARCH VALUE OF	

• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	87 VA
• at 60 Hz	87 VA
inductive power factor with closing power of the coil	0.76
• at 60 Hz	0.76
apparent holding power of magnet coil at AC	9.4 VA
• at 60 Hz	9.4 VA
inductive power factor with the holding power of the coil	0.28
• at 60 Hz	0.28
closing delay	8 40 ms
• at AC	6 40 MS
opening delay • at AC	4 16 ms
arcing time	10 10 ms
residual current of the electronics for control with signal	10 10 1115
<0>	
• 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]	
• for single-phase AC motor at 230 V rated value	3 hp
• for 3-phase AC motor at 460/480 V rated value	15 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 required	fuse gG: 10 A
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
fastening method	screw and snap-on mounting onto 35 mm DIN 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	
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	
ertificates/ approvals		
General Product Approval		EMC





Confirmation







Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates	Marine / Shipping
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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=3RT2526-1AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-1AK60

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AK60

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

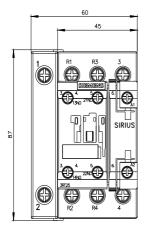
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1AK60&lang=en

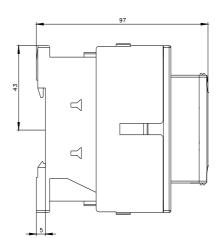
Characteristic: Tripping characteristics, I2t, Let-through current

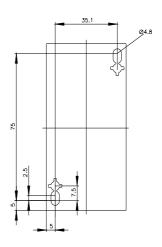
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AK60/char}$

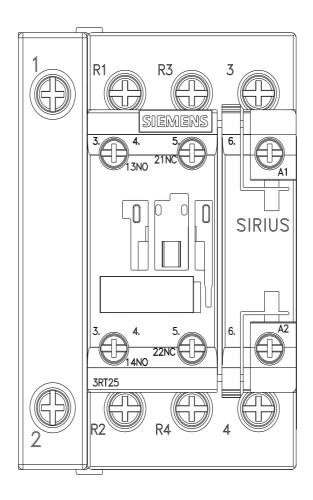
Further characteristics (e.g. electrical endurance, switching frequency)

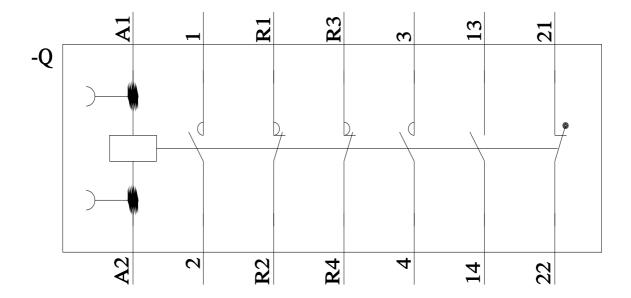
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1AK60&objecttype=14&gridview=view1











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