SIEMENS

Data sheet 3RT2516-1AK60



power contactor, AC-3, 9 A, 4 kW / 400 V, 4-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, main contacts: 2 NO + 2 NC, screw terminal, size: S00

product brand name SIRIUS product designation contactor product type designation 3RT25 General technical data size of contactor		
product type designation General technical data size of contactor product extension • function module for communication • auxillary switch • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of auxillary circuit rated value • of walking vicinit rated value • of walking vici		SIRIUS
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size of contactor product extension • function module for communication • auxillary switch • auxillary switch • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxillary circuit rated value • of auxillary circuit rated value • of will main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary shirth block typical • of the contactor with added electronically optimized auxillary shirth block typical • of the contactor with added electronically optimized auxillary shirth block typical • of the contactor with added electronically optimized auxillary shirth block typical • of the contactor with added electronically optimized auxillary shirth block typical • of the contactor with added electronically optimized auxillary shirth block typical • of the contactor with added electronically optimized auxillary shirth block typical • of the contactor with added electronically optimized auxillary shirth block typical • of the c		3RT25
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auxiliary switch Yes	product extension	
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at AC mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NC contacts for main contacts poperational current 10,5g / 5 ms, 6,6g / 10 ms 30,000,000 30,000,000 30,000,000 40,000,000 10,000,000 10,000,000 10,000,00	• at AC	6,7g / 5 ms, 4,2g / 10 ms
mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary with added auxiliary with adde	shock resistance with sine pulse	
of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring operation ouring operation ouring storage ouring storage relative humidity minimum relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts poperational current of the contacts for main contacts coperational current of the contactor for main contacts coperational current	• at AC	10,5g / 5 ms, 6,6g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage oduring storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 2 operational current	mechanical service life (operating cycles)	
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during storage	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts 2 number of NC contacts for main contacts 2 operational current	during storage	-55 +80 °C
maximum 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	relative humidity minimum	10 %
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		95 %
number of NO contacts for main contacts number of NC contacts for main contacts operational current	Main circuit	
number of NC contacts for main contacts 2 operational current	number of poles for main current circuit	4
operational current	number of NO contacts for main contacts	2
	number of NC contacts for main contacts	2
• at AC-1 up to 690 V	operational current	
	• at AC-1 up to 690 V	

40.00	40.4
— at ambient temperature 40 °C rated value	18 A
— at ambient temperature 60 °C rated value	16 A
• at AC-2 at AC-3 at 400 V	
— per NO contact rated value	9 A
— per NC contact rated value	9 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current	
at 1 current path at DC-1	
— at 24 V rated value	16 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	16 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
• at 1 current path at DC-3 at DC-5	
 — at 24 V per NC contact rated value 	16 A
 — at 24 V per NO contact rated value 	16 A
 — at 110 V per NC contact rated value 	0.075 A
— at 110 V per NO contact rated value	0.15 A
 — at 220 V per NC contact rated value 	0.375 A
 — at 220 V per NO contact rated value 	0.75 A
 with 2 current paths in series at DC-3 at DC-5 	
 — at 24 V per NC contact rated value 	16 A
 — at 24 V per NO contact rated value 	16 A
 — at 110 V per NC contact rated value 	0.175 A
— at 110 V per NO contact rated value	0.35 A
operating power at AC-2 at AC-3	
 at 230 V per NC contact rated value 	2.2 kW
 at 230 V per NO contact rated value 	2.2 kW
 at 400 V per NC contact rated value 	4 kW
at 400 V per NO contact rated value	4 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	110 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	110 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	54 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	0.7 W
no-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h
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	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	32 VA
• at 50 Hz	31.7 VA
	51.7 VA
• at 60 Hz	31.7 VA

• at 50 Hz	0.77
• at 60 Hz	0.77
apparent holding power of magnet coil at AC	4.8 VA
• at 50 Hz	4.8 VA
• at 60 Hz	4.8 VA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
residual current of the electronics for control with signal <0>	
at AC at 230 V maximum permissible	0.003 A
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	0
contact	
number of NO contacts for auxiliary contacts instantaneous contact	0
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
operational current at DC-12	
• 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 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]	1 ha
for single-phase AC motor at 230 V rated value for 3 phase AC motor at 460/490 V rated value	1 hp
• for 3-phase AC motor at 460/480 V rated value	5 hp
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / Q600
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 35 A (690 V, 100 kA)
with type of coordination is required — with type of assignment 2 required	gG: 20A (690V, 100kA)
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	57.5 mm
width	45 mm
depth	73 mm
required spacing	73 mm
-	73 mm 0 mm

solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 T1 value for proof test interval or service life according to IEC 60529 protection class IP on the front according to IEC 60529 IP20	nals nals nals nals n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2,5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²) (18 14), 2x 12
- downwards • for live parts - forwards - backwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 To value for proof test interval or service life according to IEC 60529 IP20	nals nals nals n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2,5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²)
- downwards • for live parts - forwards - backwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 To auxiliary core test interval or service life according to IEC 60947-5-1 No To auxiliary contects interval or service life according to IEC 60947-5-1 No	nals nals nals nals n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2,5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²) (18 14), 2x 12
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- downwards • for live parts - forwards - backwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid - solid or stranded - so	nals nals nals nals n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2,5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²) n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²), 2x 4 mm² n²), 2x (0.75 2.5 mm²) (18 14), 2x 12
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 — downwards ● for live parts — forwards — backwards — upwards — downwards — at the side Connections/ Terminals ○ mm 6 mm 	
 — downwards ● for live parts — forwards — backwards — upwards — downwards — at the side 0 mm 0 mm 6 mm 	
 — downwards ● for live parts — forwards — backwards — upwards — downwards 0 mm 0 mm 0 mm 	
 — downwards ● for live parts — forwards — backwards — upwards 0 mm 0 mm 0 mm 	
 — downwards ● for live parts — forwards — backwards 0 mm 0 mm 	
— downwards● for live parts— forwards0 mm	
— downwards● for live parts	
— at the side 6 mm	
— upwards 0 mm	
— backwards 0 mm	
— forwards 0 mm	
for grounded parts	
— at the side 0 mm	
— downwards 0 mm	
— upwards 0 mm	
— backwards 0 mm	

General Product Approval

EMC





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 Railway Environment

Confirmation



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=3RT2516-1AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2516-1AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2516-1AK60

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

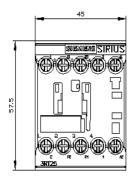
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2516-1AK60&lang=en

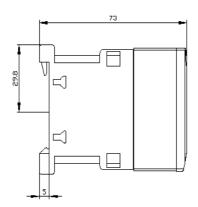
Characteristic: Tripping characteristics, I2t, Let-through current

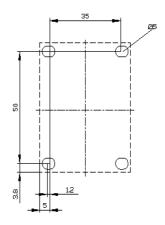
https://support.industry.siemens.com/cs/ww/en/ps/3RT2516-1AK60/char

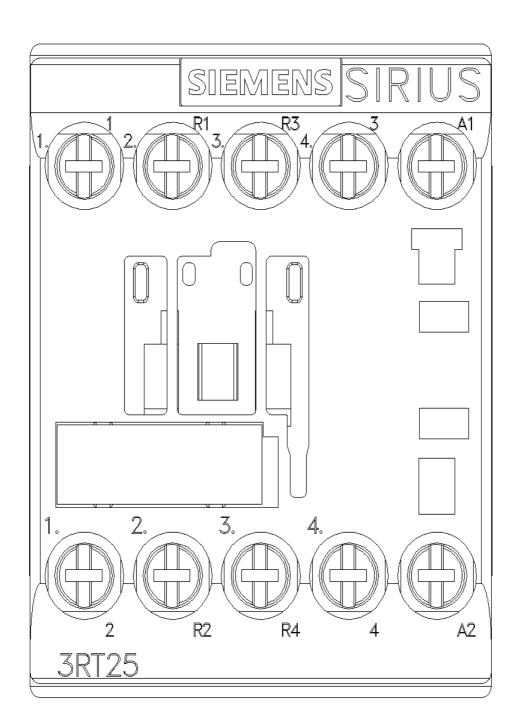
Further characteristics (e.g. electrical endurance, switching frequency)

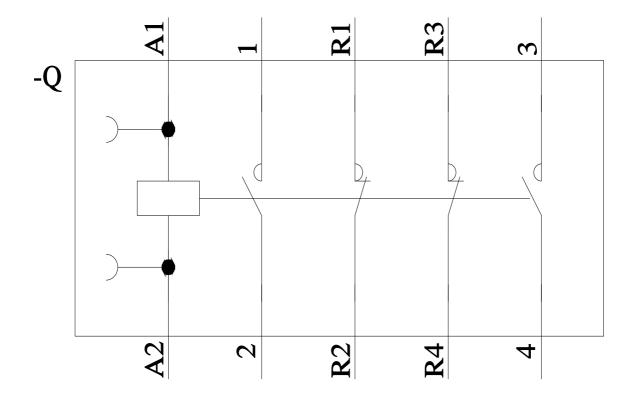
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2516-1AK60&objecttype=14&gridview=view1











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