SIEMENS

Data sheet 3RT2516-2AK60



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, spring-loaded terminal, size: S00

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S00
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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 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 an anomal representate CP clear value	at ambient temperature 40 °C reted value	18 A
# AC 2 al AC 3 at 40 V — per NC contact rated value 9 A — per NC contact rated value 16 A — at 2 Lurrent path a DC -1 — at 2 4 V rated value 2.1 A — at 220 V rated value 0.8 A — at 110 V rated value 0.8 A — at 220 V rated value 12 A — at 220 V rated value 12 A — at 220 V rated value 12 A — at 3 110 V rated value 12 A — at 3 110 V rated value 12 A — at 40 V rated value 12 A — at 40 V rated value 12 A — at 220 V rated value 13 A — at 40 V rated value 14 A — at 220 V rated value 15 A — at 40 V rated value 15 A — at 40 V rated value 16 A — at 40 V rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 17 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC contact rated value 18 A — at 220 V per NC c	— at ambient temperature 40 °C rated value	18 A
−per NC contact rated value		10 A
— per NC contact related value		0.4
Sperature Sper	•	
proporational current	·	
* at 1 current path a 10-1 - at 24 V rated value		2.5 1111117
	operational current	
	• at 1 current path at DC-1	
at 220 V rated value	— at 24 V rated value	16 A
	— at 110 V rated value	2.1 A
with 2 current paths in series at DC-1 — at 24 V related value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 420 V rated value — at 420 V rated value — at 420 V rated value — at 424 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 224 V per NC contact rated value — at 224 V per NC contact rated value — at 224 V per NC contact rated value — at 224 V per NC contact rated value — at 224 V per NC contact rated value — at 224 V per NC contact rated value — at 224 V per NC contact rated value — at 225 V per NC contact rated value — at 220 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rated value — at 230 V per NC contact rate	— at 220 V rated value	0.8 A
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	•	40.4
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	•	
with 2 current paths in series at DC-3 at DC-5	·	
with 2 current paths in series at DC-3 at DC-5	·	
— at 24 V per NC contact rated value	•	0.75 A
at 24 V per NO contact rated value at 110 V per NC contact rated value at 110 V per NC contact rated value at 110 V per NC contact rated value 0.35 A operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • la timited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 3 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 switching at zero current maximum • limited to 80 switching at zero current maximum • limited to 80 switching at zero current maximum • limited to 80 switching at zero current maximum • limited to 80 switching at zero current maximum • limited to 80 switching at zero current maximum • limited to 80 switching at zero current maximum •		40.4
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a 1 230 V per NC contact rated value at 230 V per NC contact rated value at 400 V per NC contact rated value 4 kW at 400 V per NC 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 limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at 2ero current maximum limited to 60 s switching at 2ero current maximum limited to 60 s switching at 2ero current maximum limited to 66 k, Use minimum cross-section acc. to AC-1 rated value limited to 66 k, Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero curr	·	0.55 A
at 230 V per NO contact rated value at 400 V per NC contact rated value at 400 V per NO contact rated value 4 kW short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 60 s s		2.2 kW
at 400 V per NC contact rated value at 400 V per NO contact rated value at 400 V per NO contact rated value short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switch		
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 limited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at DC operating frequency at AC-1 maximum 1 000 1/h Control circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value at 60 Hz rated value at 50 Hz at 50 Hz at 60 Hz Operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz 31.7 VA at 60 Hz	 limited to 10 s switching at zero current maximum 	86 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	 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value
Operational current per conductor On-load switching frequency other DC 10 000 1/h Operating frequency other DC other D	limited to 60 s switching at zero current maximum	54 A; Use minimum cross-section acc. to AC-1 rated value
		0.7 W
at DC 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 ot 60 Hz at 60 Hz	no-load switching frequency	
operating frequency		
at AC-1 maximum type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value at 50 Hz at 60 Hz at 60 Hz at 60 Hz apparent pick-up power of magnet coil at AC at 60 Hz at 60 Hz at 60 Hz 31.7 VA		10 000 1/h
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 at 50 Hz at 60 Hz 31.7 VA 31.7 VA 	• at 60 Hz	0.8 1.1
• at 60 Hz 31.7 VA	apparent pick-up power of magnet coil at AC	32 VA
	• at 50 Hz	31.7 VA
inductive power factor with closing power of the coil 0.8	• at 60 Hz	31.7 VA
	inductive power factor with closing power of the coil	0.8

• 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 hp
for single-phase AC motor at 230 V rated value for 3 phase AC motor at 460/480 V rated value	1 hp
for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL	5 hp A600 / Q600
Short-circuit protection	A000 / Q000
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 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	70 mm
width	45 mm
depth	73 mm
required spacing	
a with aida by aida marratina	
with side-by-side mountingforwards	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	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm²)
solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section for main contacts	20 12
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29
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
Certificates/ approvals	
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=3RT2516-2AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2516-2AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2516-2AK60

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

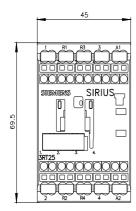
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2516-2AK60&lang=en

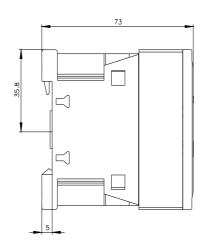
Characteristic: Tripping characteristics, I2t, Let-through current

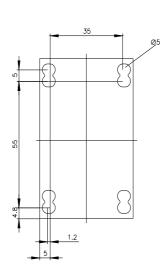
https://support.industry.siemens.com/cs/ww/en/ps/3RT2516-2AK60/char

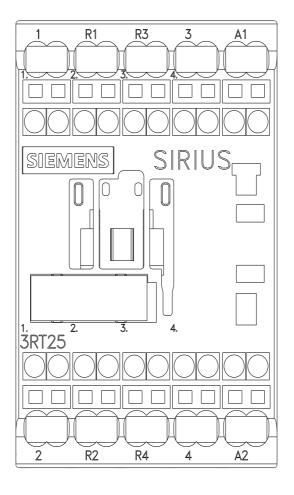
Further characteristics (e.g. electrical endurance, switching frequency)

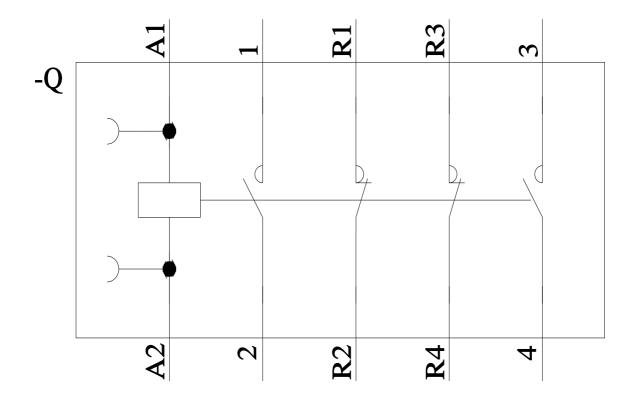
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2516-2AK60&objecttype=14&gridview=view1











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