SIEMENS

Data sheet 3RT2536-1AK60



Contactor, AC-3, 22 kW/400 V 110 V AC/50 Hz/120 V AC/60 Hz 4-pole, 2 NO+2 NC, Size S2 Screw terminal 1 NO+1 NC integrated

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S2
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 safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-40 +70 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C acc. 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

purposer of NC contacts for main contacts operational current • at AC-1 up to 890 V — at ambient temperature 40 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value — at 110 V 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 24 V per NC contact rated value — at 110 V yer NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 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 24 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 24 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 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC cont	Se ventuela lei muni comacia		
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power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	[W] at AC-3 at 400 V for rated value of the 4 W		
no-load switching frequency	ching frequency		
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operating frequency at AC-1 maximum 1 000 1/h	quency 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	Iz 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	190 V·A
• at 50 Hz	210 V·A
• at 60 Hz	188 V·A
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	17.2 V·A
• at 50 Hz	17.2 V·A
• at 60 Hz	16.5 V·A
inductive power factor with the holding power of the	0.36
coil	
● at 50 Hz	0.36
● at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	AC
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	6 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 3-phase AC motor at 460/480 V rated value	25 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 160 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 80 A (690 V, 100 kA)
for short-circuit protection of the auxiliary switch	fuse gG: 10 A

stallation/ 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 standard mounting rail according to DIN EN 50022	
 side-by-side mounting 	Yes	
height	114 mm	
width	75 mm	
depth	130 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	50 mm	
— at the side	10 mm	
— downwards	50 mm	
for live parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	50 mm	
— downwards	50 mm	
— at the side	10 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		
— solid	2x (1 35 mm²), 1x (1 50 mm²)	
 solid or stranded 	2x (1 35 mm²), 1x (1 50 mm²)	
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)	
at AWG cables for main contacts	2x (18 2), 1x (18 1)	
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)	
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross	18 1	
section for main contacts		
Safety related data		
product function		
• mirror contact acc. to IEC 60947-4-1	Yes	
• positively driven operation acc. to IEC 60947-5-1	No	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	



Confirmation





<u>KC</u>



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate UK Declaration of Conformity



Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good



Confirmation

Vibration and Shock

<u>Transport Information</u>

Further information

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=3RT2536-1AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2536-1AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2536-1AK60

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

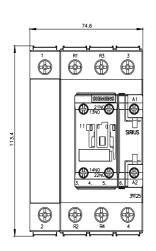
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2536-1AK60&lang=en

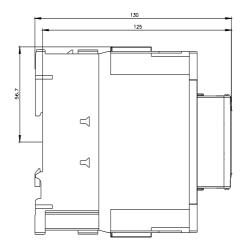
Characteristic: Tripping characteristics, I2t, Let-through current

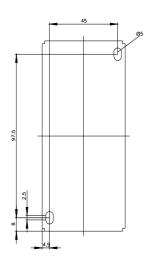
https://support.industry.siemens.com/cs/ww/en/ps/3RT2536-1AK60/char

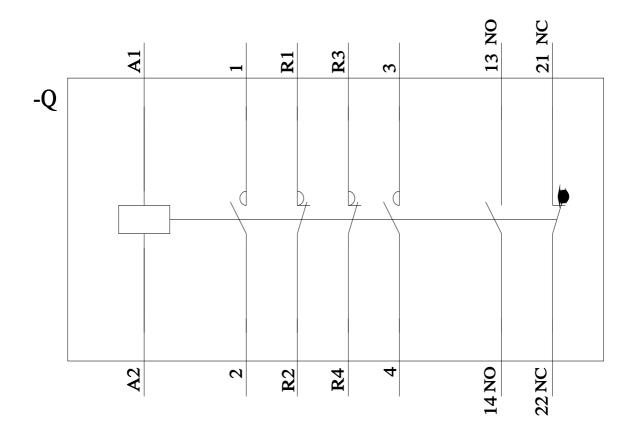
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2536-1AK60&objecttype=14&gridview=view1









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