SIEMENS

Data sheet

3RT2516-2AK60



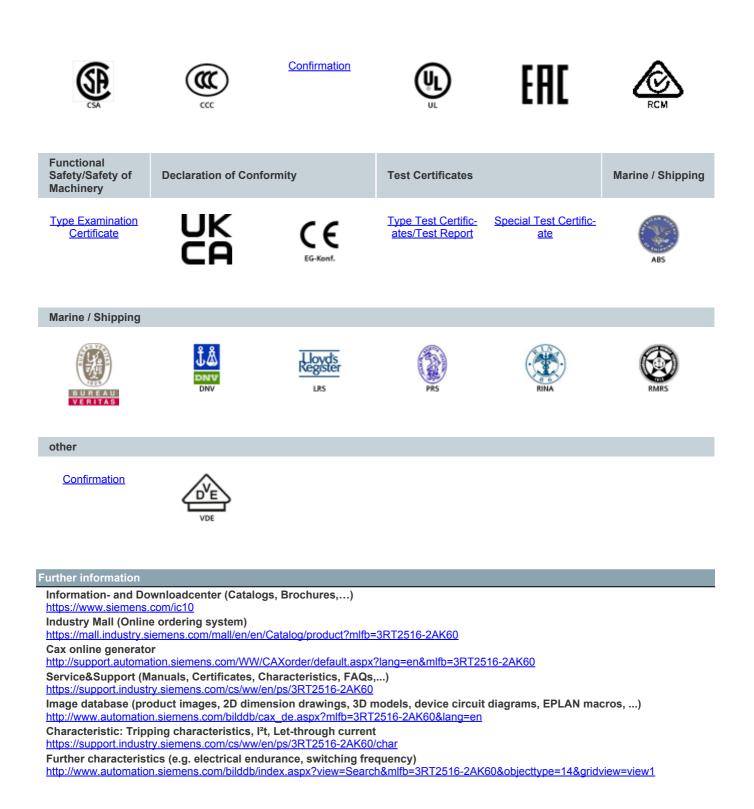
Contactor, 2NO + 2NC, AC-3, 4 kW 110 V AC, 50 Hz, 120 V, 60Hz, 4-pole, 2NO + 2NC, Size S00, Spring-type terminal

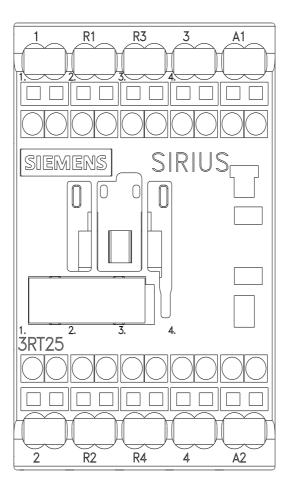
product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary 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 safe isolation 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 (switching 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 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	9A
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	20 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	20 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 440 v rated value at 1 current path at DC-3 at DC-5 	V.U A
•	16 A
 — at 24 V per NC contact rated value — at 24 V per NO contact rated value 	16 A 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
Imited 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 mergent soil of AO	22.1/4
apparent pick-up power of magnet coil at AC	32 VA
• at 50 Hz	31.7 VA
• at 60 Hz inductive power factor with closing power of the coil	31.7 VA 0.8
at 50 Hz	0.8
• at 50 Hz • at 60 Hz	0.77
	4.8 VA
apparent holding power of magnet coil at AC • at 50 Hz	4.6 VA 4.8 VA
• at 50 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	7 13 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 contact	0
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]	
• for single-phase AC motor at 230 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	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: 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 standard mounting rail

• elde by-side mounting Yes height 70 mm width 45 mm • elde by-side mounting 73 mm • elde by-side mounting 0 mm - backwards 0 mm - upwards 0 mm - upwards 0 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm - backwards 0 mm - backwards 0 mm - at the side 0 mm - backwards 0 mm - at the side 0 mm - downwards 0 mm - at the side 0 mm - downwards 0 mm - at the side 0 mm - downwards 0 mm - for rowards 0 mm - for live parts 0 mange - fore live parts 0 mm - a the		according to DIN EN 50022	
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5-1 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29	
IEC 61508 IP20 protection class IP on the front according to IEC IP20		No	
60529		20 y	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front		IP20	
	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Certificates/ approvals	ertificates/ approvals		
General Product Approval EMC	General Product Approval		EMC





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