## SIEMENS

## Data sheet

## 3RT2516-2AK60



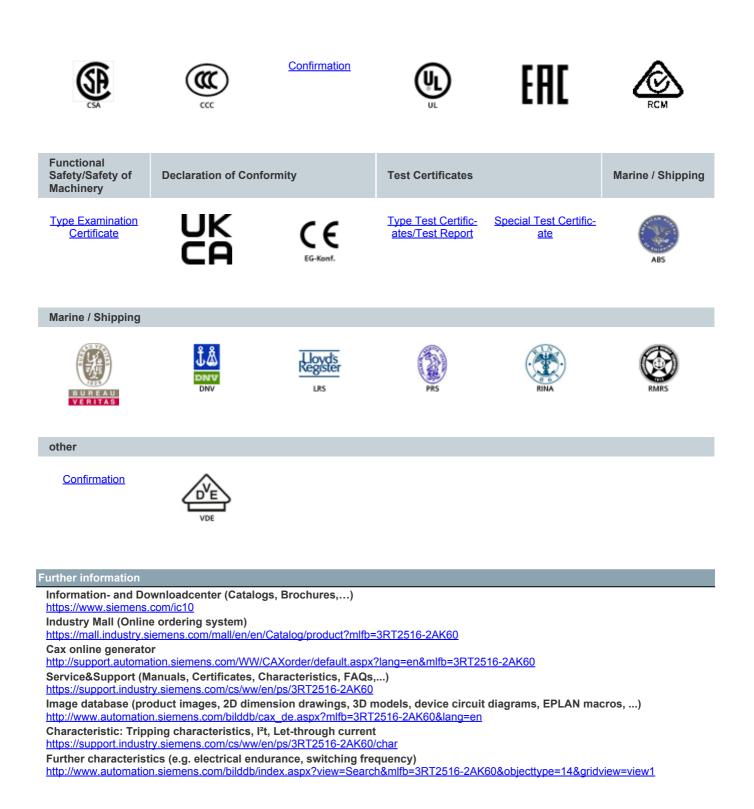
Contactor, 2NO + 2NC, AC-3, 4 kW 110 V AC, 50 Hz, 120 V, 60Hz, 4-pole, 2NO + 2NC, Size S00, Spring-type terminal

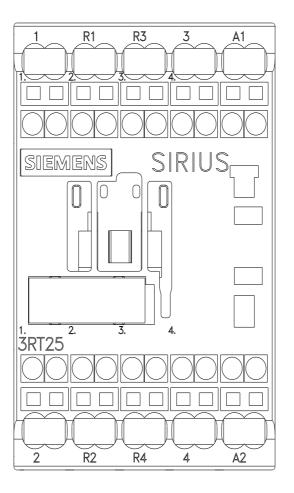
product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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 <sup>2</sup>
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
<ul> <li>at 440 v rated value</li> <li>at 1 current path at DC-3 at DC-5</li> </ul>	V.U A
•	16 A
<ul> <li>— at 24 V per NC contact rated value</li> <li>— at 24 V per NO contact rated value</li> </ul>	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
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	66 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	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)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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	
width         45 mm           depth         73 mm           required spacing         73 mm           • with side-by-side mounting         73 mm           - forwards         0 mm           - backwards         0 mm           - downwards         0 mm           - backwards         0 mm           - backwards         0 mm           - backwards         0 mm           - downwards         0 mm           - downwards         0 mm           - downwards         0 mm           - downwards         0 mm           - backwards         0 mm           - downwards         0 mm           - downwards         0 mm           - downwards         0 mm           - at the side         6 mm           Connections/Torminals         spring-loaded terminals           vipre of controlicuit         spring-loaded terminals           of mailer and control cicuit         spring-loaded terminals           of mailer and control cicuit         spring-loaded terminals	side-by-side mounting	Yes	
depth     73 mm       required spacing     -       e-torwards     0 mm       - backwards     0 mm       - downwards     0 mm       - downwards     0 mm       - downwards     0 mm       - downwards     0 mm       - backwards     0 mm       - downwards     0 mm       - solid     \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			
required spacing         • with side by side mounting         - forwards       0 mm         - backwards       0 mm         - downwards       0 mm         - downwards       0 mm         - at the side       0 mm         - backwards       0 mm         - at the side       0 mm         - backwards       0 mm         - backwards       0 mm         - backwards       0 mm         - upwards       0 mm         - downwards       0 mm         - at the side       6 mm         Connections/ Torminals       spring-loaded terminals         io rawillary and control circuit       spring-loaded terminals         • of main contacts       spring-loaded terminals         - solid       2x (0.5 4 mm?)         - finely stranded with core end processing       2x (0.5 4 mm?)         - finely stranded with core end processing       2x (0.5 2.5 mm?)         - finely stranded with core end processing			
• with side-by-side mounting         o mm           - forwards         0 mm           - backwards         0 mm           - upwards         0 mm           - downwards         0 mm           - at the side         0 mm           - forwards         0 mm           - backwards         0 mm           - backwards         0 mm           - backwards         0 mm           - backwards         0 mm           - downwards         0 mm           - backwards         0 mm           - downwards         0 mm	•	73 mm	
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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	<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	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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