## SIEMENS

## Data sheet

## 3RT2518-2AP00



Power contactor, AC-3 16 A, 7.5 kW, 400 V 2 NO + 2 NC 230 V AC, 50/60 Hz 4-pole 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	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 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

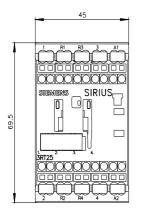
number of NC contacts for main contacts	2				
operational current					
• at AC-1 up to 690 V					
— at ambient temperature 40 °C rated value	22 A				
— at ambient temperature 60 °C rated value	22 A 20 A				
<ul> <li>at ambient temperature of Chated value</li> <li>at AC-2 at AC-3 at 400 V</li> </ul>	20 A				
per NO contact rated value	16 A				
•	9 A				
— per NC contact rated value					
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²				
operational current					
<ul> <li>at 1 current path at DC-1</li> </ul>					
— 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				
<ul> <li>with 2 current paths in series at DC-1</li> </ul>					
— 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 1 current path at DC-3 at DC-5					
- at 24 V per NC contact rated value	20 A				
— at 24 V per NO contact rated value	20 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	0.13 A				
-	20 A				
— at 24 V per NC contact rated value	20 A				
— at 24 V per NO contact rated value					
— 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	0.011/1/				
at 230 V per NC contact rated value	2.2 kW				
at 230 V per NO contact rated value	4 kW				
• at 400 V per NC contact rated value	4 kW				
at 400 V per NO contact rated value	7.5 kW				
short-time withstand current in cold operating state up to 40 °C					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	165 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	165 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	92 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	74 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	2.2 W				
operational current per conductor					
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	230 V				
• at 60 Hz rated value	230 V				
operating range factor control supply voltage rated value of magnet coil at AC					
• at 50 Hz	0.8 1.1				
• at 60 Hz	0.85 1.1				

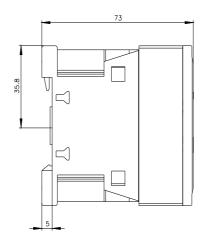
apparent pick up power of magnet soil of AO	27.\/A
apparent pick-up power of magnet coil at AC	37 VA
• at 50 Hz • at 60 Hz	27 VA 24.3 VA
• at 60 Hz inductive power factor with closing power of the coil	24.3 VA 0.8
at 50 Hz	0.8
• at 60 Hz	0.8
	4.2 VA
apparent holding power of magnet coil at AC • at 50 Hz	4.2 VA 4.2 VA
• at 60 Hz	3.3 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	0.004 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	
<ul> <li>at 230 V rated value</li> </ul>	10 A
• at 400 V rated value	3 A
operational current at DC-12	
<ul> <li>at 48 V rated value</li> </ul>	6 A
• at 60 V rated value	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 125 V rated value	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
• at 60 V rated value	2 A
<ul> <li>at 110 V rated value</li> </ul>	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	2 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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	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

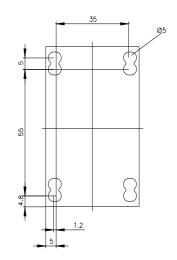
• elde by-side mounting     Yes       height     70 mm       width     45 mm       • elde by-side mounting     73 mm       • elde by-side mounting     0 mm       - backwards     0 mm       - upwards     0 mm       - upwards     0 mm       - downwards     0 mm       - downwards     0 mm       - downwards     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	
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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?)         - solid or stranded       2x (0.5 4 mm?)         - solid or stranded       2x (0.5 4 mm?)         - solid or stranded       2x (0.5 2 mm?)         - solid o			
• 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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<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>solid or stranded with core end processing</li> <li>solid (0.5 4 mm<sup>2</sup>)</li> <li>solid or stranded without core end processing</li> <li>solid (0.5 2.5 mm<sup>2</sup>)</li> <li>solid or stranded without core end processing</li> <li>solid (0.5 2.5 mm<sup>2</sup>)</li> <li>solid (0.5 2.5 mm</li></ul></li></ul>		2x (20 12)	
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AWG number as coded connectable conductor cross section for main contacts       20 12         Safety related data			
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• 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 y         protection class IP on the front according to IEC 60529       IP20	afety related data		
• positively driven operation according to IEC 60947- 5-1 No T1 value for proof test interval or service life according to IEC 61508 IProtection class IP on the front according to IEC 60529 IP20	product function		
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

(SP)	<u>Confirmation</u>	CCC		EHC	RCM		
Functional Safety/Safety of Machinery	Declaration of Confe	ormity	Test Certificates		Marine / Shipping		
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping							
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	RMRS RAME		
other							
Further information							
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system)							
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Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-2AP00 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2518-2AP00⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current							
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