SIEMENS

Data sheet

3RT2526-2AB00



Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 24 V AC, 50 Hz 4-pole size S0 Spring-type terminals 1 NO + 1 NC integrated

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	SO
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	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 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 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

operational current 40 A	number of NC contacts for main contacts	2			
• at AC-1 up to 680 V 40 A - at ambient temperature 60 °C rated value 55 A • at AC-2 at AC-3 at 40 V 25 A - per NC contact rated value 25 A operational current 10 mm² • at 1 current path at DC-1 10 mm² - at 24 V rated value 35 A - at 24 V rated value 36 A - at 24 V per NC contact rated value 20 A - at 24 V per NC contact rated value 20 A - at 20 V per NC contact rated value 25 A - at 20 V per NC contact rated value 25 A - at 20 V per NC contact rated value 25 A - at 20 V per NC contact rated value 25 A - at 20 V per NC contact rated value 25 A - at 20 V per NC contact rated value	operational current				
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• at 230 V per NO contact rated value5.5 kW• at 400 V per NC contact rated value11 kW• at 400 V per NO contact rated value11 kW• short-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency1.6 W• at AC5 000 1/h• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum <td></td> <td></td>					
• at 400 V per NC contact rated value11 kW• at 400 V per NO contact rated value11 kWshort-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum106 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum16 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum16 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum16 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum16 A; Use minimum cross-section acc. to AC-1 rated value• at AC• 5 000 1/h• at AC• 5 000 1/h• at AC• 5 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximumAC• at AC-1 maximumAC• at AC-1 maximumAC• at AC-1 maximum1 000 1/h					
• at 400 V per NO contact rated value11 kWshort-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current walue of the • operating frequency • at AC • at AC • at AC • at AC-1 maximum• Control • Control• control circuit/ Control• Control • Control• AC • AC• type of voltage of the control supply voltageAC					
short-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value limited to 1 s switching at zero current maximumlimited to 10 s switching at zero current maximumlimited to 10 s switching at zero current maximumlimited to 30 s switching at zero current maximumlimited to 30 s switching at zero current maximumlimited to 60 s switching frequencyat ACat ACat ACbion 1/hbion 1/hcontrol circuit/ Controlto 00 1/hAC					
up to 40 °C• limited to 1 s switching at zero current maximum• limited to 5 s switching at zero current maximum• limited to 10 s switching at zero current maximum• limited to 10 s switching at zero current maximum• limited to 30 s switching at zero current maximum• limited to 60 s switching at zero current maximum• loof A• at AC• at AC• at AC-1 maximum• at AC-1 maximum		11 KVV			
• limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current service • at AC • at AC • at AC-1 maximum200 A; Use minimum cross-section acc. to AC-1 rated value • 16 W• operating frequency • at AC-1 maximum • at AC-1 maximum1 000 1/h1 000 1/h• operating frequency • at AC-1 maximumACAC	up to 40 °C				
• limited to 10 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 60 s switching at zero current maximum • lo6 A; Use minimum cross-section acc. to AC-1 rated value • 100 1/h• operating frequency • at AC-1 maximum • at AC-1 maximum• 100 1/h• operating frequency • at AC-1 maximum• 1000 1/h• operating fr	-				
• limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value 106 A; Use minimum cross-section acc. to AC-1 rated valuepower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor1.6 Wno-load switching frequency • at AC • at DC5 000 1/hoperating frequency • at AC-1 maximum1 000 1/hoperating frequency • at AC-1 maximumACtope of voltage of the control supply voltageAC	-				
• limited to 60 s switching at zero current maximum 106 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 1.6 W no-load switching frequency - • at AC 5 000 1/h • at DC 1 500 1/h operating frequency - • at AC-1 maximum 1 000 1/h Control circuit/ Control - type of voltage of the control supply voltage AC	-				
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor 1.6 W no-load switching frequency 5 000 1/h • at AC 5 000 1/h • at DC 1 500 1/h operating frequency 1 500 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control AC type of voltage of the control supply voltage AC	-				
operational current per conductor no-load switching frequency • at AC 5 000 1/h • at DC 1 500 1/h operating frequency 1 500 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control AC type of voltage of the control supply voltage AC					
• at AC 5 000 1/h • at DC 1 500 1/h operating frequency 1 500 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control 1 000 1/h type of voltage of the control supply voltage AC	operational current per conductor	1.6 W			
• at DC 1 500 1/h operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control K type of voltage of the control supply voltage AC					
operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h Control circuit/ Control K type of voltage of the control supply voltage AC					
• at AC-1 maximum 1 000 1/h Control circuit/ Control type of voltage of the control supply voltage AC		1 500 1/h			
Control circuit/ Control type of voltage of the control supply voltage AC					
type of voltage of the control supply voltage AC	• at AC-1 maximum	1 000 1/h			
	Control circuit/ Control				
control supply voltage at AC	type of voltage of the control supply voltage	AC			
	control supply voltage at AC				

e at 50 Hz rated value	24 1/
at 50 Hz rated value	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	77 VA
• at 50 Hz	77 VA
inductive power factor with closing power of the coil	0.82
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	9.8 VA
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the	0.25
coil	
• at 50 Hz	0.25
closing delay	
• at AC	8 40 ms
opening delay	4 40
• at AC	4 16 ms
arcing time	10 10 ms
residual current of the electronics for control with signal <0>	
• at AC at 230 V maximum permissible	0.007 A
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	1
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
• 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	40.4
• at 24 V rated value	10 A
at 48 V rated value	2 A 2 A
 at 60 V rated value at 110 V rated value 	2 A 1 A
	1 A 0.9 A
 at 125 V rated value at 220 V rated value 	0.9 A 0.3 A
at 220 V fated value at 600 V rated value	0.3 A 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	3 hp
 for 3-phase AC motor at 460/480 V rated value 	15 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: 63 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 35 A (690 V, 50 kA)
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A
required	

Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted				
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022				
 side-by-side mounting 	Yes				
height	102 mm				
width	61 mm				
depth	97 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	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	opinig-type terminals				
for main contacts					
— solid	2x (1 10 mm²)				
— solid or stranded	2x (1 10 mm ²)				
 finely stranded with core end processing 	2x (1 6 mm ²)				
 — finely stranded with core end processing — finely stranded without core end processing 	2x (1 6 mm ²)				
at AWG cables for main contacts	2x (1 8)				
type of connectable conductor cross-sections					
for auxiliary contacts					
— solid	2x (0.5 2.5 mm²)				
— solid or stranded	2x (0.5 2.5 mm ²)				
 — finely stranded with core end processing 	2x (0.5 1.5 mm ²)				
 — finely stranded with core end processing — finely stranded without core end processing 	2x (0.5 1.5 mm ²)				
 at AWG cables for auxiliary contacts 	2x (20 14)				
AWG number as coded connectable conductor cross	18 8				
section for main contacts					
Safety related data					
product function	No.				
mirror contact according to IEC 60947-4-1	Yes				
 positively driven operation according to IEC 60947- 5-1 	No				
T1 value for proof test interval or service life according to IEC 61508	20 у				
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 Ap	oproval				EMC	
(S)	Confirmation		መ	FB L	Ŕ	
CSA		ccc	UL UL	LIIL	RCM	
Functional Safety/Safety of Machinery	Declaration of Confo	ormity	Test Certificates		Marine / Shipping	
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	RMRS	
other						
<u>Confirmation</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=3RT2526-2AB00 Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-2AB00 Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AB00 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
) models, device circuit (RT2526-2AB00⟨=en	diagrams, EPLAN ma	cros,)	
	ping characteristics, I ² t					
https://support.indust	ry.siemens.com/cs/ww/e	n/ps/3RT2526-2AB	<u>)0/char</u>			
Further characterist	tics (e.g. electrical endu	irance, switching f	requency) urch&mlfb=3RT2526-2AB0			

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-2AB00&objecttype=14&gridview=view1

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