## SIEMENS

## Data sheet

## 3RT2526-2AF00



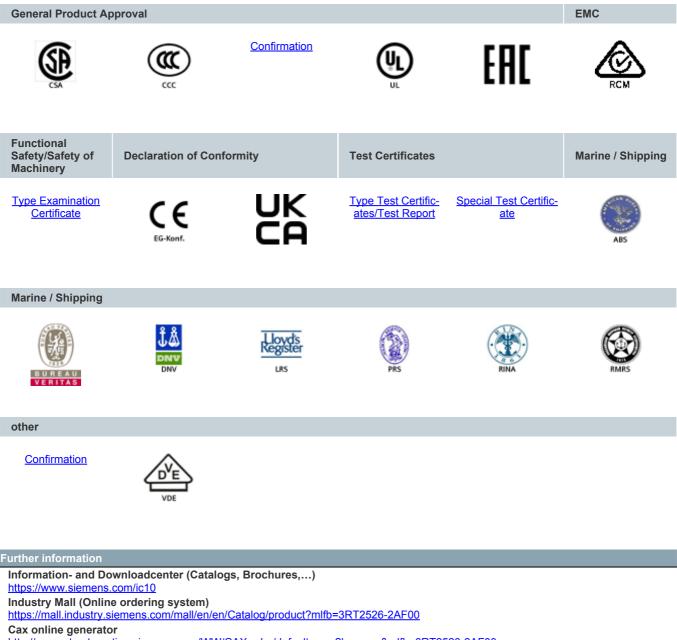
Contactor, 2NO + 2NC, AC-3, 11 kW, 110 V AC, 50 Hz, 4-pole, 2NO + 2NC, Size S0, Spring-type terminal 1 NO + 1 NC integrated

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S0
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
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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<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

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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- per NC contact rated value         25 A           mitmum coss-section in main coult at maximum AC-1         10 mm*           reder Value         50 mm*           operational current         41 current path at DC-1           - at 24 V rated value         35 A           - at 240 V rated value         10 A           - at 240 V rated value         10 A           - at 240 V rated value         55 A           - at 240 V rated value         56 A           - at 240 V per NC contact rated value         20 A           - at 240 V per NC contact rated value         20 A           - at 240 V per NC contact rated value         25 A           - at 240 V per NC contact rated value         20 A           - at 240 V per NC contact rated value         20 A           - at 240 V per NC contact rated value         25 A           - at 240 V per NC contact rated value         20 A           - at 240 V per	— at ambient temperature 60 °C rated value	35 A
	• at AC-2 at AC-3 at 400 V	
Initian cross-section in main circuit at maximum AC-1         10 mm²           related value         5.4           - at 24 V traited value         35.A           - at 10 V rated value         1.A           - at 24 V rated value         35.A           - at 24 V rated value         20.A           - at 24 V per NC contact rated value         20.A           - at 24 V per NC contact rated value         25.A           - at 24 V per NC contact rated value         25.A           - at 24 V per NC contact rated value         25.A           - at 24 V per NC contact rated value         25.A           - at 24 V per NC contact rated value         0.09 A           - at 24 V per NC contact rated value         0.045.A           - at 24 V per NC contact rated value         25.A           - at 24 V per NC contact rated value         25.A           - at 24 V per NC contact rated value         25.A           - at 24 V per NC contact rated value         25.A	— per NO contact rated value	25 A
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	— at 110 V rated value	4.5 A
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• at 230 V per NC contact rated value5.5 kW• 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• birnited 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 1 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 3 s switching at zero current maximum200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 6 0 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		0.27 A
• 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 <ul><li>limited to 1 s switching at zero current maximum</li><li>limited to 10 s switching at zero current maximum</li><li>limited to 10 s switching at zero current maximum</li><li>limited to 30 s switching at zero current maximum</li><li>limited to 30 s switching at zero current maximum</li><li>limited to 60 s switching frequency</li><li>at AC</li><li>at AC</li><li>at AC</li><li>bion 1/h</li><li>bion 1/h</li><li>control circuit/ Control</li><li>to 00 1/h</li><li>AC</li></ul>		
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 • 1000 1/h • 1000 1/h • at AC-1 maximum • at AC-1 maximum 	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     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 volva	110.1/
at 50 Hz rated value	110 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	
• 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	
<ul> <li>at 230 V rated value</li> </ul>	10 A
• at 400 V rated value	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
• at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
• at 110 V rated value	3 A
<ul> <li>at 125 V rated value</li> </ul>	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     at 60 V rated value	2 A 2 A
• at 60 V rated value	2 A 1 A
at 110 V rated value     at 125 V rated value	1 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>	0.9 A 0.3 A
at 220 V rated 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]	3 hn
<ul> <li>for single-phase AC motor at 230 V rated value</li> <li>for 3-phase AC motor at 460/480 V rated value</li> </ul>	3 hp 15 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
design of the fuse link	
• for short-circuit protection of the main circuit	aC: 63 A (690 V 100 kA)
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG: 63 A (690 V, 100 kA)
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul>	gG: 35 A (690 V, 50 kA)
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	

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	
<ul> <li>side-by-side mounting</li> </ul>	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	
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals	
at contactor for auxiliary contacts	Spring-type terminals	
<ul> <li>of magnet coil</li> </ul>	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 <sup>2</sup> )	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )	
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )	
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 <sup>2</sup> )	
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> )	
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> )	
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	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	
<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>	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		



http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-2AF00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AF00

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

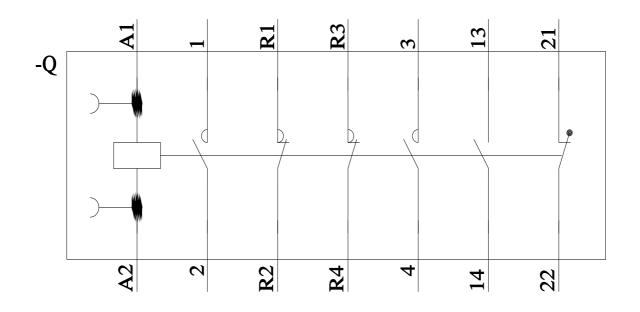
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2526-2AF00&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AF00/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-2AF00&objecttype=14&gridview=view1



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