## **SIEMENS**

Data sheet 3RT2526-2AP60



Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 220 V DC, 50 Hz 240 V, 60Hz, 1 NO + 1 NC 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	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

number of NC contacts for main contacts	2
operational current	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	40 A
— at ambient temperature 40 °C rated value	35 A
at AC-2 at AC-3 at 400 V	00 A
— per NO contact rated value	25 A
per NC contact rated value	25 A
minimum cross-section in main circuit at maximum AC-1	10 mm <sup>2</sup>
rated value	10 111111
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 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	1.25 A
— at 110 V per NO contact rated value	2.5 A
— at 220 V per NC contact rated value	0.5 A
— at 220 V per NO contact rated value	1 A
— at 440 V per NC contact rated value	0.045 A
— at 440 V per NO contact rated value	0.09 A
with 2 current paths in series at DC-3 at DC-5     at 24 V per NC centest rated value.	2F A
— at 24 V per NC contact rated value	35 A
— at 24 V per NO contact rated value	35 A
— at 110 V per NC contact rated value	7.5 A
<ul><li>— at 110 V per NO contact rated value</li><li>— at 220 V per NC contact rated value</li></ul>	15 A 1.5 A
at 220 V per NC contact rated value  at 220 V per NO contact rated value	3 A
— at 440 V per NC contact rated value	0.135 A
— at 440 V per NO contact rated value  — at 440 V per NO contact rated value	0.135 A 0.27 A
operating power at AC-2 at AC-3	0.2171
• at 230 V per NC contact rated value	5.5 kW
at 230 V per NO contact rated value     at 230 V per NO contact rated value	5.5 kW
at 400 V per NC contact rated value	11 kW
at 400 V per NO contact rated value	11 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>	200 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value
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	1.6 W
operational current per conductor	
no-load switching frequency	5 000 1/b
• at AC	5 000 1/h
at DC     congrating fraguency	1 500 1/h
operating frequency  ● at AC-1 maximum	1 000 1/h
	1 000 1/h
Control circuit/ Control	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	

<ul> <li>at 50 Hz rated value</li> </ul>	220 V
at 60 Hz rated value	240 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 magnet coil at AC	87 VA
● at 50 Hz	87 VA
• at 60 Hz	87 VA
inductive power factor with closing power of the coil	0.82
● at 50 Hz	0.76
• at 60 Hz	0.76
apparent holding power of magnet coil at AC	9.4 VA
• at 50 Hz	9.4 VA
• at 60 Hz	9.4 VA
inductive power factor with the holding power of the	0.28
coil	
● at 50 Hz	0.28
● at 60 Hz	0.28
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	0.007 71
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
<ul> <li>at 400 V rated value</li> </ul>	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
• 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 125 V rated value	0.9 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	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	
Chort 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 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 screw and snap-on mounting onto 35 mm standard mounting rail fastening method according to DIN EN 50022 • side-by-side mounting 102 mm height 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 0 mm - upwards - downwards 0 mm - at the side 6 mm **Connections/ Terminals** type of electrical connection • for main current circuit spring-loaded terminals spring-loaded terminals • for auxiliary and control circuit • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts - solid 2x (1 ... 10 mm<sup>2</sup>) - solid or stranded 2x (1 ... 10 mm<sup>2</sup>) - finely stranded with core end processing 2x (1 ... 6 mm²) - finely stranded without core end processing 2x (1 ... 6 mm²) • at AWG cables for main contacts 2x (18 ... 8) type of connectable conductor cross-sections • for auxiliary contacts 2x (0.5 ... 2.5 mm²) - solid - solid or stranded 2x (0.5 ... 2.5 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm²) - finely stranded without core end processing 2x (0.5 ... 1.5 mm²) • 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 • mirror contact according to IEC 60947-4-1 Yes positively driven operation according to IEC 60947-No 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

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front

Certificates/ approvals

**General Product Approval** 

**EMC** 





Confirmation







Functional
Safety/Safety of
Machinery

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

Type Examination Certificate



Type Test Certificates/Test Report

Special Test Certificate



## Marine / Shipping













other

Confirmation



## **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=3RT2526-2AP60

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AP60

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2526-2AP60&lang=en

 $\label{lem:characteristic:} \textbf{Characteristic: Tripping characteristics, } \textbf{I}^{2}\textbf{t, Let-through current}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AP60/char

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2526-2AP60\&objecttype=14\&gridview=view1}$ 

last modified:

