SIEMENS

Data sheet 3RT2526-1AF00



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

product designation product type designation Size of contactor size of contactor size of contactor size of contactor of function module for communication of suntillary switch Insulation voltage of main circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit rated value of auxillary since treat rectangular impulse of at AC shock resistance at rectangular impulse of at AC shock resistance with sine pulse of the contactor with added electronically optimized auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary switch block typical of the contactor with added auxillary	product brand name	SIRIUS
Size of contactor product extension • function module for communication • auxiliary switch • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block ty	product designation	contactor
size of contactor product extension	product type designation	3RT25
product extension • function module for communication • auxiliary switch • auxiliary switch • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of work maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 ### 400 V ###	General technical data	
insulation woldle for communication auxiliary switch insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value of at AC shock resistance at rectangular impulse of at AC at	size of contactor	S0
insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of at AC shock resistance at rectangular impulse of at AC shock resistance with sine pulse of the contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor	product extension	
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value surge voltage resistance of main circuit rated value of auxiliary circuit rated value anximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC shock resistance with sine pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Questiance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of uring operation of uring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 4 00 V 400 V 40	 of main circuit with degree of pollution 3 rated value 	690 V
of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value aximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC shock resistance with sine pulse at AC shock resistance with sine pulse at AC shock resistance with sine pulse of contactor typical of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical		690 V
of auxiliary circuit rated value maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse	surge voltage resistance	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC according to green • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 400 V 400 V 8,3g / 5 ms, 5,3g / 10 ms 8,3g / 5 ms, 8,3g / 10 ms 10 000 000 10 000 000 10 000 000 10 000 00	 of main circuit rated value 	6 kV
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• at AC shock resistance with sine pulse • at AC at AC mechanical service life (switching cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 4	, ,	400 V
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of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 5 000 000 10 000 000 10 000 000 10 000 00	mechanical service life (switching cycles)	
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Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 10 // 07 // 000 m 10 // 000 m 1	•	10 000 000
installation altitude at height above sea level maximum ambient temperature during operation during storage during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 2 000 m -25 +60 °C -25 +80 °C 95 % 95 %	reference code according to IEC 81346-2	Q
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ambient temperature • during operation • during storage • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 4	Ambient conditions	
 during operation during storage telative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 	installation altitude at height above sea level maximum	2 000 m
● during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit -55 +80 °C 95 % 95 %	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 g5 % maximum Main circuit number of poles for main current circuit 4	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Main circuit number of poles for main current circuit 4	during storage	-55 +80 °C
maximum Main circuit number of poles for main current circuit 4	<u> </u>	
number of poles for main current circuit 4		95 %
·	Main circuit	
number of NO contacts for main contacts 2	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 60 °C rated value	35 A
• at AC-2 at AC-3 at 400 V	
— 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 mm²
rated value	
operational current	
• at 1 current path at DC-1	05.4
— 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
with 2 current paths in series at DC-1	
— 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 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
 — at 110 V per NO contact rated value 	15 A
 — at 220 V per NC contact rated value 	1.5 A
 — 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 	0.27 A
operating power at AC-2 at AC-3	
 at 230 V per NC contact rated value 	5.5 kW
 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	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	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 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
control supply voltage at AC	7.0
control supply voltage at Ao	

a at 50 Lie rated value	440.1/
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	2 42
• at AC	8 40 ms
opening delay	4 16 ms
• at AC	4 10 ms
arcing time residual current of the electronics for control with	10 10 IIIS
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 Approximately approximately DC 43	0.15 A
operational current at DC-13	10 A
at 24 V rated valueat 48 V rated value	10 A 2 A
at 40 V rated value at 60 V rated value	2 A
at 110 V rated value at 110 V rated value	1 A
at 110 V rated value at 125 V rated value	0.9 A
at 123 V rated value 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	
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	

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
side-by-side mounting	according to DIN EN 50022 Yes
height	85 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
onnections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	0 (4 0 5 2) 0 (0 5 40 2)
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
at AWG cables for main contacts Type of connectable conductor group costions Type of connectable conductor group costions Type of connectable conductor group costions	_ 2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
for auxiliary contacts	2v (0.5
solid solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing at AWG cables for auxiliary contacts 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section for main contacts	16 8
afety related data	
product function	
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 y
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
touch protection on the nont according to inco 00323	3





Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Marine / Shipping











Confirmation

other

other



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=3RT2526-1AF00

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2526-1AF00}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AF00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1AF00&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AF00/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-1AF00&objecttype=14&gridview=view1

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