SIEMENS

Data sheet 3RT2526-1AH20

2NO+2NC CONTACTOR, AC3: 11KW AC 48V 50/60HZ 4-POLE, 2NO+2NC, SZ: S0, SCREW TERMINAL 1NO+1NC INTEGR.



Figure similar

product brand name	SIRIUS
Product designation	3RT2 contactor
General technical data	
Size of contactor	S0
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20
Shock resistance	

 at rectangular impulse 	
— at AC	8,3g / 5 ms, 5,3g / 10 ms
• 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 electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions	

2 000 m
-25 +60 °C
-55 +80 °C
4
2
2
40 A
35 A
25 A
25 A
10 mm²
10 mm²
35 A
4.5 A
1 A
0.4 A
35 A
35 A

— at 220 V rated value	5 A
— at 440 V rated value	1 A
Operating current	
 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 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 24 V per NC contact rated value 	35 A
 — at 24 V per NO contact rated value 	35 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-1	
— at 230 V rated value	15 kW
— at 400 V rated value	26 kW
• 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
Power loss [W] at AC-3 at 400 V for rated value of	1.6 W
the operating current per conductor	
No-load switching frequency	5 000 1/b
• at AC	5 000 1/h
at DC Operating frequency	1 500 1/h
Operating frequency • at AC-1 maximum	1 000 1/h
	1 333 1/11
Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	48 V

• at 60 Hz rated value	48 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 coil at AC	77 V·A
● at 50 Hz	77 V·A
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 V·A
● at 50 Hz	9.8 V·A
Inductive power factor with the holding power of the	0.25
coil	
● at 60 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	
- 6	

Auxiliary circuit	
Number of NC contacts	
• for auxiliary contacts	
 instantaneous contact 	1
Number of NO contacts	
• for auxiliary contacts	
 instantaneous contact 	1
Operating current at AC-12 maximum	10 A
Operating 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
Operating 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
Operating 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 110/120 V rated value	2 hp
— at 230 V rated value	3 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

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A fuse gL/gG: 10 A

nstallation/ mounting/ dimensions	
Mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
 Side-by-side mounting 	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	

0 mm
0 mm
0 mm
6 mm
0 mm
0 mm
0 mm
0 mm
0 mm
6 mm

Connections/Terminals	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 — single or multi-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 conductors for main contacts 	2x (16 12), 2x (14 8)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 — single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	100 FIT
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
• positively driven operation acc. to IEC 60947-5-	No
1	
T1 value for proof test interval or service life acc. to IEC 61508	20 y

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates

Typprüfbescheinigu











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Shipping Approval

Certificates

spezielle Prüfbescheinigunge

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GL



LRS

Shipping Approval







Umweltbestätigung

Bestätigungen

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2526-1AH20

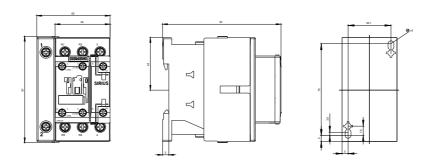
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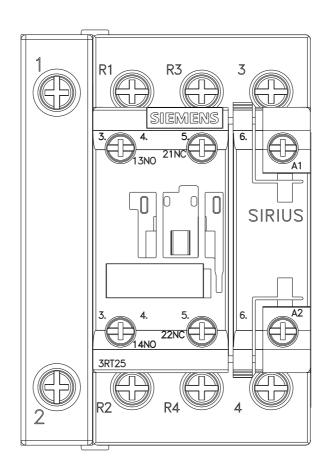
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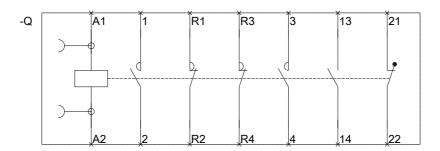
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-1AH20}}$

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-1AH20&lang=en







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