3RA2220-1FB24-0BB4

Data sheet



Load feeder fuseless, Reversing duty 400 V AC, Size S0 3.50...5.00 A 24 V DC screw terminal for installation on standard mounting rail with standard mounting rail adapter (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product designation design of the product product type designation annufacturer's article number of the supplied contactor of the supplied contactor of the supplied Contactor of the supplied RH assembly kit of the supplied link module assembly kit of the supplied link module size of the circuit-breakers size of to circuit-breaker size of load feeder size of load feeder surge voltage resistance rated value degree of protection NEMA rating shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of contactor typical type of assignment type of protection according to ATEX directive 2014/34/EU	product brand name	SIRIUS
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Size of the circuit-breaker S00	 of the supplied RH assembly kit 	3RA2923-1BB1
size of the circuit-breaker S00 size of load feeder S0 insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 6 kV degree of protection NEMA rating other shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (switching cycles) of contactor typical 10 000 000 type of assignment 2 Ex II (2) GD 2014/34/EU Ex II (2) GD 2014/34/EU Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature 4 during operation 2-20 +60 °C 4 during storage 5 during transport 5 +80 °C 5 +80 °C 6 temperature compensation 10 95 % Main circuit 10 design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage 6 rated value 690 V	 of the supplied link module 	3RA2921-1BA00
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Substance Prohibitance (Date) Ambient conditions ambient temperature		Ex II (2) GD
Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -50 +80 °C temperature compensation -20 +60 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value 690 V		DMT 02 ATEX F 001
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 ◆ during transport temperature compensation -20 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage ◆ rated value 690 V 	 during operation 	-20 +60 °C
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relative humidity during operation 10 95 % Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value 10 95 % 3 design of the switching contact electromechanical 3.5 5 A 690 V	 during transport 	-50 +80 °C
Main circuit number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value operating value 690 V	temperature compensation	-20 +60 °C
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value o rated value o rated value o rated value 3.5 5 A 3.5 5 A	relative humidity during operation	10 95 %
design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value electromechanical 3.5 5 A 690 V	Main circuit	
adjustable current response value current of the current-dependent overload release operating voltage • rated value 3.5 5 A	number of poles for main current circuit	3
current-dependent overload release operating voltage • rated value 690 V	design of the switching contact	electromechanical
• rated value 690 V	,	3.5 5 A
	operating voltage	
• at AC-3 rated value maximum 690 V	rated value	690 V
	 at AC-3 rated value maximum 	690 V

operating frequency rated value	50 60 Hz
operational current at AC-3 at 400 V rated value	3.6 A
operating power at AC-3	
at 400 V rated value	1 500 W
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
rated value	24 24 V
holding power of magnet coil at DC	5.9 W
Auxiliary circuit	
product extension auxiliary switch	Yes
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
UL/CSA ratings	thermal (billetaille)
full-load current (FLA) for 3-phase AC motor	484
at 480 V rated value violed machanical performance [hp]	4.8 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	1 hp
— at 200/208 V rated value	1 hp
— at 220/230 V rated value — at 460/480 V rated value	1 hp
	3 hp
— at 575/600 V rated value	3 hp
Short-circuit protection	1
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	
at 400 V according to IEC 60947-4-1 rated value	150 000 A
Installation/mounting/dimensions	
Installation/ mounting/ dimensions	
mounting position	vertical
-	vertical On adapter for screw and snap-on mounting on 35 mm standard mounting rail
mounting position	On adapter for screw and snap-on mounting on 35 mm standard
mounting position fastening method	On adapter for screw and snap-on mounting on 35 mm standard mounting rail
mounting position fastening method height	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm
mounting position fastening method height width	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm
mounting position fastening method height width depth	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm
mounting position fastening method height width depth required spacing	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm
mounting position fastening method height width depth required spacing • for grounded parts	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 10 mm 10 mm 32 mm 0 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — upwards — upwards	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm 10 mm 0 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards • for live parts — forwards — backwards — upwards — backwards — upwards — upwards — downwards	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm 10 mm 32 mm 0 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — at the side — downwards — at the side — downwards — backwards — backwards — backwards — upwards — at the side	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm 10 mm 32 mm 0 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — torwards — backwards — backwards — backwards — upwards — at the side Connections/ Terminals	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm 10 mm 32 mm 0 mm 10 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — torwards — torwards — backwards — backwards — upwards — torwards — in the side Connections/ Terminals type of electrical connection • for main current circuit	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm
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mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm 10 mm 50 mm 10 mm screw-type terminals screw-type terminals
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data B10 value with high demand rate according to SN 31920	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 50 mm 10 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm
mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 10 mm 10 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm
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mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures	On adapter for screw and snap-on mounting on 35 mm standard mounting rail 265 mm 90 mm 130 mm 32 mm 0 mm 10 mm 10 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm

protocol is supported • PROFINET IO protocol • PROFIsafe protocol protocol is supported AS-Interface protocol No

Certificates/ approvals

General Product Approval

For use in hazardous locations **Declaration of Conformity**



Confirmation



EAC





Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other

Railway









Confirmation

Vibration and Shock

Dangerous Good

<u>Transport Information</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=3RA2220-1FB24-0BB4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1FB24-0BB4

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1FB24-0BB4

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

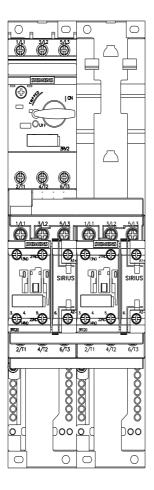
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1FB24-0BB4&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1FB24-0BB4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1FB24-0BB4&objecttype=14&gridview=view1



last modified: 2/16/2022 🖸