SIEMENS

Data sheet



FUSELESS MOTOR STARTER REVERSING OPERATION 600V AC SZ S00 2.2-3.2A 220/240V AC 50/60HZ SCREW CONNECTION FOR SCREW MOUNTING OR 35 MM RAIL-MOUNTING TYPE OF COORDINATION 2 IQ = 150 KA ALSO FULFILLS TYPE OF COORDINATION 1 1NC (PER CONTACTOR)

design of the product reversing starter	product brand name	SIRIUS
manufacturer's article number of the supplied contactor of the supplied contactor supplied route-breakers of the supplied inclub-reakers of the supplied link module 3RA1921-1DA00 Seneral technical data size of the circuit-breaker size of load feeder product extension auxiliary switch read read of the circuit-breaker size of load feeder product extension auxiliary switch read read value degree of pollution surge voltage resistance rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 feed fassignment growth feed for the contactor typical type of assignment 2 Substance Prohibitance (Date) Ambient conditions ambient temperature during operation during storage during transport design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage otated value at AC-3 rated value at AC-3 rated value at 400 V rated value operation current at AC-3 operating power at AC-3 operating po	product designation	non-fused motor starter 3RA2
of the supplied circuit-breakers of the supplied circuit-breakers of the supplied link module of the supplied link module size of the supplied link module SaR1921-1DA00	design of the product	reversing starter
of the supplied circuit-breakers of the supplied link module 3RA1921-1DA00 General technical data size of the circuit-breaker size of load feeder product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) Ambient temperature during operation during storage during transport design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage	manufacturer's article number	
• of the supplied link module General technical data size of the circuit-breaker size of load feeder product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport Aid circuit Aumber 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 • at AC-3 rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value oentroil Controil Son Son Son Son Son Son Son So	 of the supplied contactor 	3RT2015-1AP62
Son	 of the supplied circuit-breakers 	3RV2011-1DA10
size of the circuit-breaker S00 size of load feeder S00 product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 at AC rated value 680 V shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (switching cycles) of contactor typical 7 type of assignment 2 Substance Prohibitance (Date) 03/01/2017 Ambient conditions ambient temperature of during operation -20 +60 °C of during storage -55 +80 °C of during transport -55 +80 °C of design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage operating voltage operating frequency rated value 690 V operating frequency rated value 50 60 Hz operating power at AC-3 at 400 V rated value 1 100 W operating power at AC-3 at 400 V rated value 1 100 W on the control of control circuit/Control	 of the supplied link module 	3RA1921-1DA00
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surge voltage resistance rated value shock resistance according to IEC 60068-2-27 fee dg / 11 ms mechanical service life (switching cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) 03/01/2017 Ambient conditions ambient temperature • during operation • during storage • during transport number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating power at AC-3 • at 400 V rated value • at 400 V rated value • at 500 V rated value Control circuit/ Control	0 0 1	690 V
shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-27 mechanical service life (switching cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during storage • during transport 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 • at AC-3 rated value maximum operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value	degree of pollution	3
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type of assignment 2 Substance Prohibitance (Date) 03/01/2017 Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport -55 +80 °C Main circuit number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage • rated value 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating power at AC-3 • at 400 V rated value 1 100 W • at 500 V rated value 1 100 W • at 500 V rated value 1 100 W • at 500 V rated value 1 100 W • at 500 V rated value 1 500 W	shock resistance according to IEC 60068-2-27	6g / 11 ms
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	ambient temperature	
■ during transport 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 ● at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 ● at 400 V rated value 1 100 W at 500 V Control circuit/ Control	 during operation 	-20 +60 °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 • at AC-3 rated value maximum operating frequency rated value operating power at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value 1 100 W other incompletes 1 100 W Control circuit/ Control	during storage	-50 +80 °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 • at AC-3 rated value maximum operating frequency rated value operating at AC-3 at 400 V rated value • at 400 V rated value • at 500 V rated value 1 100 W Control circuit/ Control	 during transport 	-55 +80 °C
design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value 1 100 W Control circuit/ Control	Main circuit	
adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value 1 100 W • at 500 V rated value 1 500 W Control circuit/ Control	number of poles for main current circuit	3
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at AC-3 rated value maximum 690 V operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value 1 500 W Control circuit/ Control	operating voltage	
operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value 1 500 W Control circuit/ Control	• rated value	690 V
operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value 1 500 W Control circuit/ Control	at AC-3 rated value maximum	690 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value 1 500 W Control circuit/ Control	operating frequency rated value	50 60 Hz
at 400 V rated value at 500 V rated value 1 500 W Control circuit/ Control	operational current at AC-3 at 400 V rated value	2.7 A
at 500 V rated value 1 500 W Control circuit/ Control	operating power at AC-3	
Control circuit/ Control	 at 400 V rated value 	1 100 W
	• at 500 V rated value	1 500 W
control supply voltage at AC	Control circuit/ Control	
	control supply voltage at AC	

 at 50 Hz rated value 	220 V
at 50 Hz rated value	187 242 V
 at 60 Hz rated value 	240 V
 at 60 Hz rated value 	192 264 V
apparent holding power of magnet coil at AC	4.8 VA
inductive power factor with the holding power of the coil	0.25
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	0
Protective and monitoring functions	
trip class	CLASS 10
-	
design of the overload release response value current of instantaneous short-circuit trip unit	thermal (bimetallic) 41.6 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value.	2.8 A
at 480 V rated value at 600 V rated value	2.8 A 3.16 A
	0.10 A
yielded mechanical performance [hp]	
for single-phase AC motor at 110/120 V roted value	0.1 hp
— at 110/120 V rated value	0.1 hp
— at 230 V rated value	0.25 hp
• for 3-phase AC motor	0.5 hp
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	1.5 hp
— at 575/600 V rated value	2 hp
Short-circuit protection	
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 	153 000 A
 at 500 V according to IEC 60947-4-1 rated value 	100 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
height	170 mm
width	90 mm
depth	97.1 mm
required spacing	
 for grounded parts 	
— forwards	0 mm
— backwards	0 mm
— upwards	20 mm
— at the side	9 mm
— downwards	10 mm
 for live parts 	
— forwards	
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— downwards— at the side	0 mm 20 mm
	0 mm 20 mm 10 mm
— at the side	0 mm 20 mm 10 mm
— at the side Connections/ Terminals	0 mm 20 mm 10 mm 9 mm
— at the side Connections/ Terminals type of electrical connection for main current circuit	0 mm 20 mm 10 mm 9 mm
— at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections	0 mm 20 mm 10 mm 9 mm screw-type terminals
— at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections • for main contacts stranded	0 mm 20 mm 10 mm 9 mm screw-type terminals 0.5 4 mm², 2x (0.75 2.5 mm²)

Safety related data	
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures with high demand rate according to SN 31920	73 %
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

General Product Approval

For use in hazardous locations Declaration of Conformity



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping







Confirmation

other

Vibration and Shock

Railway

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=3RA2210-1DA15-2AP6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2210-1DA15-2AP6}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1DA15-2AP6

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

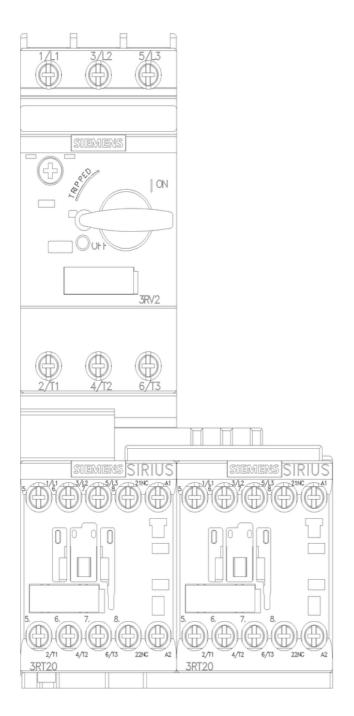
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-1DA15-2AP6&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-1DA15-2AP6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-1DA15-2AP6&objecttype=14&gridview=view1



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