Data sheet

3RA2220-0GB23-0AP6



Fuseless motor starter Reversing operation 600VAC Size S0 0.45-0.63A 220/240VAC 50/60HZ screw connection For 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (per contactor)

product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	reversing starter
manufacturer's article number	
 of the supplied contactor 	3RT2023-1AP60
 of the supplied circuit-breakers 	3RV2011-0GA10
 of the supplied RH assembly kit 	3RA2923-1BB1
 of the supplied busbar adapter 	3RA2922-1AA00
 of the supplied link module 	3RA2921-1AA00
 of the supplied standard mounting rail adapter 	3RA2922-1AA00
General technical data	
size of the circuit-breaker	S00
size of load feeder	S0
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
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
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	0.45 0.63 A
operating voltage	
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	0.6 A
operating power at AC-3	
• at 400 V rated value	180 W

at 500 V rated value at 800 V rated value 250 W Control circuit/ Control control supply voltage at AC at 50 Hz rated value at 50 Hz rated value at 60 Hz rated value apparent holding power of magnet coll at AC inductive power factor with the holding power of the coll Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 2 response value current of instantaneous short-circuit trip unit trip class CLASS 10 design of the overload release response value current of instantaneous short-circuit trip unit short-circuit protection product function short circuit protection design of the short-circuit trip conditional short-circuit current (Iq) at 400 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing for grounded parts — forwards — backwards — upwards — of live parts — forwards — ownwards — forwards — ownwards	
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— at the side 9 mm	
2.00	
Connections/ Terminals	
type of electrical connection for main current circuit screw-type terminals	
type of connectable conductor cross-sections	
• for main contacts stranded 1 10 mm², 2x (2.5 6 mm²)	
• at AWG cables for main contacts 2x (16 12), 2x (14 8)	
connectable conductor cross-section for main contacts 1 6 mm ²	
finely stranded with core end processing	
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 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 hazard- ous locations Declaration of Conformity 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=3RA2220-0GB23-0AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-0GB23-0AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-0GB23-0AP6

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-0GB23-0AP6&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-0GB23-0AP6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-0GB23-0AP6&objecttype=14&gridview=view1

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