3RA2220-0GB23-0AP6

Data sheet



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)

size of the circuit-breaker size of load feeder product extension auxiliary switch 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 fee / 11 ms mechanical service life (operating cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) ambient conditions ambient temperature o during operation -20 +60 °C o during storage o during transport -55 +80 °C	product brand name	SIRIUS
Manufacturer's article number 38T2023-1AP60 38T2023-1AP60 50 fthe supplied contactor 38T2021-1GGA10 50 fthe supplied chreakers 38T2021-1GGA10 50 fthe supplied Iricult-breakers 38T2021-1AR00 50 fthe supplied Irik module 38T2022-1AR00 50 fthe supplied Irik module 38T2022-1AR00 50 fthe supplied standard mounting rail adapter 38T2022-1AR00 50 fthe supplied Irik module 38T2022-1AR00 50 fthe circult-breaker 50	product designation	non-fused motor starter 3RA2
of the supplied contactor of the supplied Circuit-breakers of the supplied RH assembly kit of the supplied Hassembly kit of the supplied busbar adapter of the supplied Ikin module of the supplied standard mounting rail adapter of the supplied standard mounting rail adapter of the supplied standard mounting rail adapter size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of load feeder So 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 feedhandal service life (operating cycles) of contactor typical type of assignment 2 substance Prohibitance (Date) outing operation outing operation outing storage outing transport outing transport design of the switching contact adjustable current response value current of the current-dependent overload release operating voltage • at AC-3 rated value • at AC-3 rated value • at AC-3 at 400 V rated value • at 500 V v rated value • at 400 V rated value	design of the product	reversing starter
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of the supplied RH assembly kit of the supplied busbar adapter of the supplied link module of the supplied link module of the supplied link module of the supplied substance adapter street of the supplied substance adapter size of the circuit-breaker size of the circuit-breaker size of load feeder product extension auxiliary switch yes insulation voltage with degree of pollution 3 at AC rated value 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 (operating cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) 0301/2017 Ambient conditions ambient temperature oldring operation oldring storage oldring storage oldring storage oldring transport subside 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 orated value orat	of the supplied contactor	3RT2023-1AP60
of the supplied busbar adapter of the supplied link module of the supplied standard mounting rail adapter size of the circuit-breaker size of the circuit-breaker Size of the circuit-breaker Size of load feeder So product extension auxiliary switch risulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment Substance Prohibitance (Date) Abbient conditions ambient temperature olduring storage during storage during storage during storage during transport Sobility and surger of poles for main current circuit design of the switching contact duping of the supplied busbar adapter size and 400 v rated value Sobility and 400 v rated value So	of the supplied circuit-breakers	3RV2011-0GA10
of the supplied link module of the supplied standard mounting rail adapter 3RA9921-1AA00 3RA9922-1AA00 3RA992-1AA00 3RA9922-1AA00 3RA9922-1A	 of the supplied RH assembly kit 	3RA2923-1BB1
Soneral technical data size of the circuit-breaker S0 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 s surge voltage resistance rated value 6k V shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 substance Prohibitance (Date) 30/01/2017 Ambient conditions ambient temperature	of the supplied busbar adapter	3RA2922-1AA00
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 68/V shock resistance according to IEC 60068-2-27 6g/11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 03/01/2017 Ambient conditions ambient temperature during operation 20	of the supplied link module	3RA2921-1AA00
size of the circuit-breaker size of load feeder so product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value 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 (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 3/01/2017 Ambient conditions ambient temperature 4 during operation 5 during storage 5 curring transport 5 curring transport 4 cesign of the switching contact adjustable current response value current of the current-dependent overload release operating voltage 1 rated value 1 rated val	 of the supplied standard mounting rail adapter 	3RA2922-1AA00
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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 (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 03/01/2017 Ambient conditions ambient temperature	product extension auxiliary switch	Yes
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shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport **Description 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 operational current at AC-3 • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value	degree of pollution	3
mechanical service life (operating cycles) of contactor typical type of assignment 2 Substance Prohibitance (Date) 3/01/2017 Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -55 +80 °C Main circuit 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 frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value	surge voltage resistance rated value	6 kV
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 • at AC-3 rated value maximum operating frequency rated value operating frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V V rated value	shock resistance according to IEC 60068-2-27	6g / 11 ms
Substance Prohibitance (Date) Ambient conditions ambient temperature • during operation • during storage • during transport -50 +80 °C • during transport -55 +80 °C Main circuit 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 frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value	mechanical service life (operating cycles) of contactor typical	10 000 000
Ambient temperature • during operation • during storage • during transport **Description** • during transport • during transport • during transport **Description** • during transport **Description** **Description** **Description** **Description** **Description** **Description** **Description** • during transport • during transport • during transport **Description** **Description** **Description** • during transport **Description** **Description** • during transport **Description** **Description** • during storage • leutronechanical • design of the switching contact • electromechanical • design of the switching contact • electromechanical • 0.45 0.63 A **Description** • at AC-3 rated value maximum • dego V • at AC-3 rated value maximum • dego V • at AC-3 rated value maximum • dego V • operating frequency rated value • one of A • operating power at AC-3 • at 400 V rated value • at 500 V rated value	type of assignment	2
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 during transport -55 +80 °C Number of poles for main current circuit design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage rated value 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 0.6 A operating power at AC-3 at 400 V rated value at 500 V rated value at 500 V rated value 180 W at 500 V rated value at 500 V rated value 	during operation	-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 • 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 operating power at AC-3 • at 400 V rated value • at 500 V rated value 180 W	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 frequency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value 180 W	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 • at 400 V rated value • at 500 V rated value 180 W	Main circuit	
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dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value 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 180 W	design of the switching contact	electromechanical
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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 180 W	at AC-3 rated value maximum	690 V
operating power at AC-3 • at 400 V rated value • at 500 V rated value 180 W 180 W	operating frequency rated value	50 60 Hz
 at 400 V rated value at 500 V rated value 180 W 180 W 	operational current at AC-3 at 400 V rated value	0.6 A
• at 500 V rated value 180 W	operating power at AC-3	
	• at 400 V rated value	180 W
• at 690 V rated value 250 W	• at 500 V rated value	180 W
	• at 690 V rated value	250 W

Control circuit/ Control	
control supply voltage at AC	
at 50 Hz rated value	220 V
at 50 Hz rated value at 50 Hz rated value	176 242 V
at 60 Hz rated value	240 V
at 60 Hz rated value at 60 Hz rated value	192 264 V
apparent holding power of magnet coil at AC	7.2 VA
inductive power factor with the holding power of the coil	0.28
Auxiliary circuit	0.20
number of NC contacts for auxiliary contacts	2 2
number of NO contacts for auxiliary contacts	2
Protective and monitoring functions	01.400.40
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	8.19 A
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
Installation/ mounting/ dimensions	<u></u>
mounting position	vertical
fastening method	snap-on fastening on 35 mm DIN rail
height	265 mm
width	90 mm
depth	120 mm
required spacing	
 for grounded parts 	
— forwards	10 mm
— backwards	0 mm
— upwards	30 mm
— at the side	9 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— backwards	0 mm
— upwards	30 mm
— downwards	10 mm
— at the side	9 mm
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts stranded	
connectable conductor cross-section for main contacts finely stranded with core end processing	1 6 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	
	hazard-









Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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, ...)

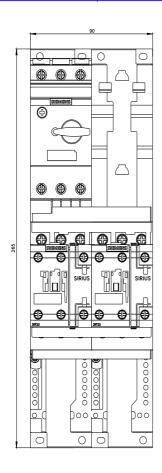
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-0GB23-0AP6&lang=en

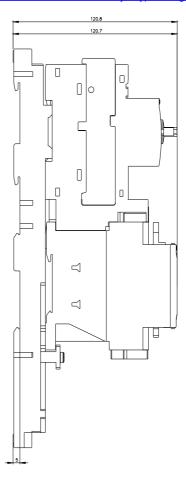
Characteristic: Tripping characteristics, I²t, Let-through current

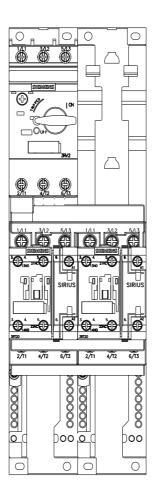
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-0GB23-0AP6/char

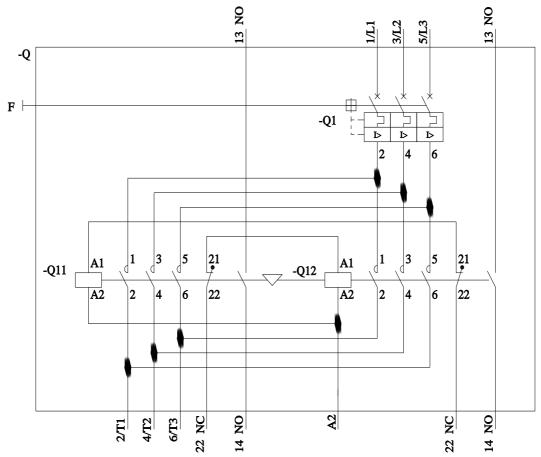
Further characteristics (e.g. electrical endurance, switching frequency)

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









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