SIEMENS

Data sheet 3RM1202-3AA04



reversing starter, 3RM1, 500 V, 0.09 - 0.75 kW, 0.4 - 2 A, 24 V DC, (push-in)

product brand name	SIRIUS
product category	Motor starter
product designation	Reversing starter
design of the product	with electronic overload protection
product type designation	3RM1
General technical data	
equipment variant according to IEC 60947-4-2	3
product function	Reversing starter
 intrinsic device protection 	Yes
 for power supply reverse polarity protection 	No
suitability for operation device connector 3ZY12	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	0.1 W
without load current share typical	1.68 W
insulation voltage rated value	500 V
overvoltage category	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
 between main and auxiliary circuit 	500 V
 between control and auxiliary circuit 	250 V
shock resistance	6g / 11 ms
vibration resistance	1 6 Hz, 15 mm; 20 m/s², 500 Hz
operating frequency maximum	1 1/s
mechanical service life (operating cycles) typical	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
product function	
direct start	No
reverse starting	Yes
product function short circuit protection	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
conducted interference	
 due to burst according to IEC 61000-4-4 	3 kV / 5 kHz
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
 due to conductor-conductor surge according to IEC 	1 kV

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61000-4-5	10 V
 due to high-frequency radiation according to IEC 61000- 4-6 	IU V
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
conducted HF interference emissions according to	Class B for the domestic, business and commercial environments
CISPR11	
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Main circuit	
number of poles for main current circuit	3
design of the switching contact	Hybrid
design of the switching contact as NO contact for signaling function	OUT, electronic, 24 V DC, 15 mA
adjustable current response value current of the current- dependent overload release	0.4 2 A
minimum load [%]	20 %; from set rated current
type of the motor protection	solid-state
operating voltage rated value	48 500 V
relative symmetrical tolerance of the operating voltage	10 %
operating frequency 1 rated value	50 Hz
operating frequency 2 rated value	60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operational current • at AC at 400 V rated value	2 A
at AC-3 at 400 V rated value at AC-3 at 400 V rated value	2 A
at AC-3 at 400 V rated value at AC-53a at 400 V at ambient temperature 40 °C rated	2 A
value	
ampacity when starting maximum	16 A
operating power for 3-phase motors at 400 V at 50 Hz	0.09 0.75 kW
Inputs/ Outputs	
input voltage at digital input	
at DC rated value	24 V
with signal <0> at DC	0 5 V
• for signal <1> at DC	15 30
input current at digital input	
• for signal <1> at DC	11 mA
• with signal <0> at DC	1 mA
number of CO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15 at 230 V maximum	3 A
operational current of auxiliary contacts at DC-13 at 24 V maximum	1 A
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	19.2 30 V
relative negative tolerance of the control supply voltage at DC	20 %
relative positive tolerance of the control supply voltage at DC	25 %
control supply voltage 1 at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
● initial value	0.8
• full-scale value	1.25
control current at DC	
 in standby mode of operation 	25 mA
during operation	70 mA
inrush current peak	
● at 24 V	0.28 A; values at 25 °C
• at DC at 24 V	300 mA

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at DC at 24 V at switching on of motor	140 mA
duration of inrush current peak	
• at 24 V	85 ms
• at DC at 24 V	80 ms
at DC at 24 V at switching on of motor	80 ms
power loss [W] in auxiliary and control circuit	
• in switching state OFF	0.014
— with bypass circuit	0.6 W
• in switching state ON	4.00 W
— with bypass circuit	1.68 W
Response times	00.00
ON-delay time	60 90 ms
OFF-delay time	60 90 ms
Power Electronics	
operational current	
• at 40 °C rated value	2 A
• at 50 °C rated value	2 A
• at 55 °C rated value	2 A
at 60 °C rated value Installation/magning/dimensions	2 A
Installation/ mounting/ dimensions	undied beginning to be a discrete and the state of the st
mounting position	vertical, horizontal, standing (observe derating)
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	100 mm
width	22.5 mm
depth	141.6 mm
required spacing	
with side-by-side mountingforwards	0 mm
— backwards	0 mm
— packwards — upwards	50 mm
— downwards	50 mm
— at the side	0 mm
for grounded parts	O IIIIII
— forwards	0 mm
— backwards	0 mm
— upwards	50 mm
— at the side	3.5 mm
— downwards	50 mm
Ambient conditions	CO HIIII
installation altitude at height above sea level maximum	4 000 m; For derating see manual
ambient temperature	4 000 III, I of defaulting see mandar
during operation	-25 +60 °C
during operation during storage	-40 +70 °C
during storage during transport	-40 +70 °C
environmental category during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
relative humidity during operation	10 95 %
air pressure according to SN 31205	900 1 060 hPa
Communication/ Protocol	
protocol is supported	
PROFINET IO protocol	No
PROFIsafe protocol	No
product function bus communication	No
protocol is supported AS-Interface protocol	No
Connections/ Terminals	
type of electrical connection	screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	spring-loaded terminals (push-in)
wire length for motor unshielded maximum	100 m
type of connectable conductor cross-sections for main contacts	

• solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
 finely stranded with core end processing 	1x (0,5 4 mm²), 2x (0,5 1,5 mm²)
connectable conductor cross-section for main contacts	
 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 1.5 mm²
 finely stranded with core end processing 	0.5 1 mm²
 finely stranded without core end processing 	0.5 1.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
 finely stranded with core end processing 	1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
 finely stranded without core end processing 	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
for AWG cables for auxiliary contacts	1x (20 16), 2x (20 16)
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
 for auxiliary contacts 	20 16
UL/CSA ratings	
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	0.125 hp
• for 3-phase AC motor	
— at 200/208 V rated value	0.333 hp
— at 220/230 V rated value	0.333 hp
— at 460/480 V rated value	0.75 hp
operating voltage at AC rated value	480 V
operational current at AC at 480 V according to UL 508	2 A

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

other





Confirmation

Further information

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=3RM1202-3AA04

Cax online generator

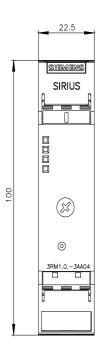
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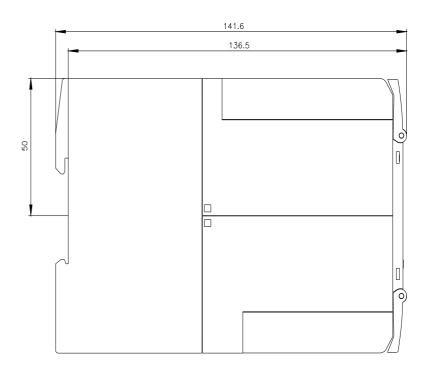
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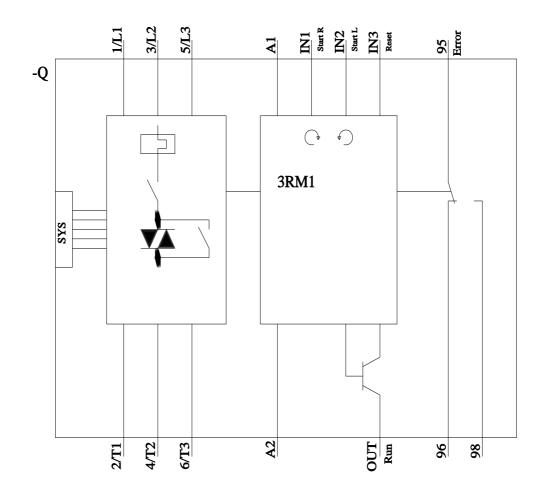
https://support.industry.siemens.com/cs/ww/en/ps/3RM1202-3AA04

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

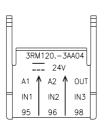
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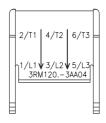












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