SIEMENS

Data sheet 3RM1102-3AA04



fail-safe direct-on-line starter, 3RM1, 500 V, 0.09 - 0.75 kW, 0.4 - 2 A, 24 V DC, screw/spring-loaded terminals (push-in)

product brand name	SIRIUS
product category	Motor starter
product designation	Fail-safe direct starter
design of the product	With electronic overload protection and safety-related disconnection
product type designation	3RM1
General technical data	
equipment variant according to IEC 60947-4-2	3
product function	fail-safe direct starter
• intrinsic device protection	Yes
for power supply reverse polarity protection	Yes
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	1.37 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
operating frequency maximum	1 1/s
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
product function	
direct start	Yes
reverse starting	No
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 	4 kV signal lines 2 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	2 kV
 due to high-frequency radiation according to IEC 61000- 4-6 	10 V

field beard interference according to IFO 04000 4.0	40.1//
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
conducted HF interference emissions according to CISPR11	Class B for the domestic, business and commercial environments
field-bound HF interference emission according to CISPR11	Class B for the domestic, business and commercial environments
Safety related data	
safe state	Load circuit open
function test interval maximum	1 a
diagnostics test interval by internal test function maximum	600 s
stop category according to IEC 60204-1	0
B10d value	2 500 000
failure rate [FIT] at rate of recognizable hazardous failures (λ dd)	1 400 FIT
failure rate [FIT] at rate of non-recognizable hazardous failures (λdu)	16 FIT
average diagnostic coverage level (DCavg)	99 %
MTTFd	75 a
IEC 62061	
SIL Claim Limit (subsystem) according to EN 62061	SILCL 3
PFHD with high demand rate according to IEC 62061	2E-8 1/h
ISO 13849	
performance level (PL) according to EN ISO 13849-1	е
category according to EN ISO 13849-1	4
IEC 61508	
Safety Integrity Level (SIL)	
according to IEC 61508	3
safety device type according to IEC 61508-2	Туре В
PFDavg with low demand rate according to IEC 61508	1.75E-5
Safe failure fraction (SFF)	99.4 %
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL2
PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-8 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.0005
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
Main circuit	
number of poles for main current circuit	3
design of the switching contact	Hybrid
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	0.4
	2 A
at AC-53a at 400 V at ambient temperature 40 °C rated value	2 A 2 A
·	
value	2 A

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	8 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 	13 mA
during operation	57 mA
inrush current peak	
• at 24 V	0.28 A; values at 25 °C
• at DC at 24 V	300 mA
• at DC at 24 V at switching on of motor	130 mA
duration of inrush current peak	
• at 24 V	85 ms
• at DC at 24 V	80 ms
• at DC at 24 V • at DC at 24 V at switching on of motor	20 ms
power loss [W] in auxiliary and control circuit	
• in switching state OFF	
with bypass circuit	0.35 W
• •	0.00 VV
in switching state ON with bypacs circuit	1.37 W
— with bypass circuit	1.0 <i>1</i> VV
Response times	05 70
ON-delay time	65 76 ms
OFF-delay time	30 43 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	2 A
Installation/ mounting/ dimensions	
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 mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
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	— backwards	0 mm
downwards Installation all fluids at height above sea level maximum ambient temperature - during operation - during storage - storage storage - during storage - storage stor	— upwards	50 mm
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• for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing Inselve stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • solid • finely stranded with core end processing • for auxiliary contacts • solid 1x (0.5 1.5 mm² 0.5 1.5 mm² 1ype of connectable conductor cross-sections • for auxiliary contacts 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 4 for AWG cables for auxiliary contacts 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 4 for AWG cables for auxiliary contacts 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 4 for auxiliary contacts 20 12 5 for auxiliary contacts 20 12 6 for single-phase AC motor - at 200 /208 V rated value 6 for single-phase AC motor - at 200/208 V rated value - at 460/480 V rated value - at 200/208 V rated value - at 460/480 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor - at 200/208 V rated value - or 3-phase AC motor		control circuit
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	wire length for motor unshielded maximum	100 m
• finely stranded with core end processing connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded without core end processing - finely stranded without core end processing - for finely stranded without core end processing - for for Sanded without core end processing - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for main contacts - for auxiliary contacts 20 12 • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 220/230 V rated value - at 220/230 V rated value - at 480/480 V rated value 0.333 hp - at 460/480 V rated value 0.75 hp Operational current at AC at 480 V according to UL 508 Approvals Certificates	type of connectable conductor cross-sections for main contacts	
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solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts	 finely stranded with core end processing 	0.5 4 mm²
finely stranded with core end processing of finely stranded without core end processing of connectable conductor cross-sections of auxiliary contacts	connectable conductor cross-section for auxiliary contacts	
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AWG number as coded connectable conductor cross section • for main contacts • for auxiliary 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 • for 3-phase AC motor — at 200/208 V rated value — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value 0.75 hp operational current at AC at 480 V according to UL 508 Approvals Certificates		
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● for 3-phase AC motor — at 200/208 V rated value		0.125 hn
- 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 operational current at AC at 480 V according to UL 508 2 A Approvals Certificates		C. LECTIP
— at 220/230 V rated value 0.333 hp — at 460/480 V rated value 0.75 hp operational current at AC at 480 V according to UL 508 2 A Approvals Certificates	•	0.222 hn
— at 460/480 V rated value 0.75 hp operational current at AC at 480 V according to UL 508 2 A Approvals Certificates		
operational current at AC at 480 V according to UL 508 2 A Approvals Certificates		
Approvals Certificates		
		2 A
General Product Approval	Approvals Certificates	
	General Product Approval	





Confirmation







EMV

For use in hazardous locations

Functional Saftey

other

Environment





Type Examination Certificate Confirmation

Environmental Confirmations

Further information

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=3RM1102-3AA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1102-3AA04

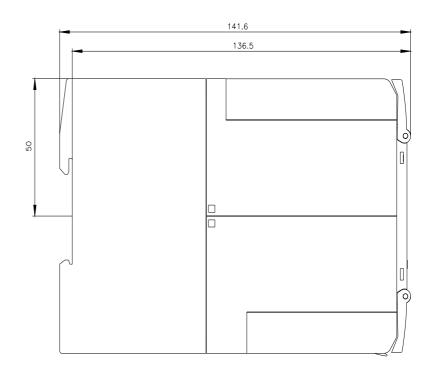
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

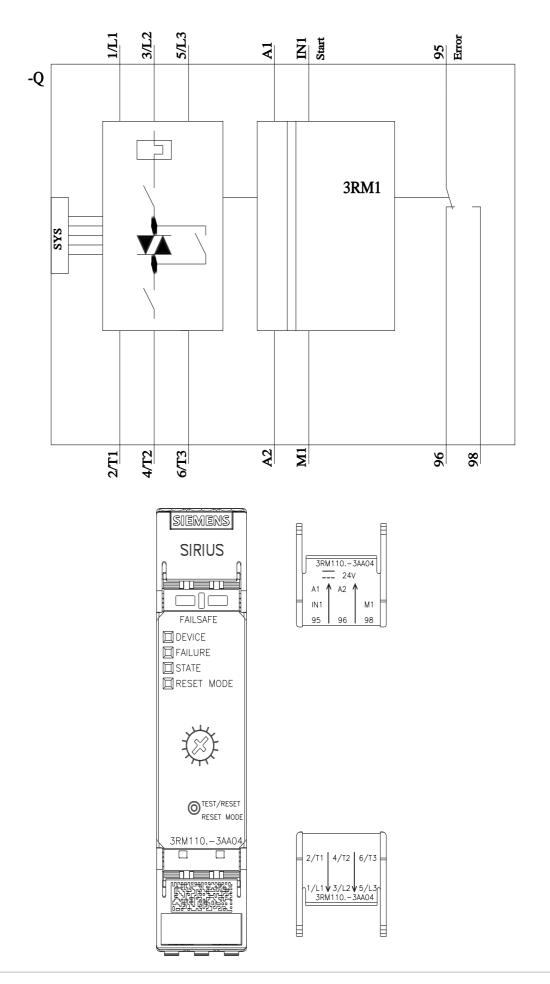
https://support.industry.siemens.com/cs/ww/en/ps/3RM1102-3AA04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1102-3AA04&lang=en







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