## **SIEMENS**

Data sheet 3RM1107-3AA04



fail-safe direct-on-line starter, 3RM1, 500 V, 0.55 - 3 kW, 1.6 - 7 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	
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.13 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	
<ul> <li>between main and auxiliary circuit</li> </ul>	500 V
<ul> <li>between control and auxiliary circuit</li> </ul>	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
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
Weight	0.307 kg
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	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	3 kV / 5 kHz
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	4 kV signal lines 2 kV
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to high-frequency radiation according to IEC 61000-</li> </ul>	10 V

4-6	
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 (λdd)	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	PL e
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	Type B
PFDavg with low demand rate according to IEC 61508	1.75E-5
Safe failure fraction (SFF)	99.4 %
hardware fault tolerance according to IEC 61508	1 20 a
T1 value for proof test interval or service life according to IEC 61508	20 d
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529  ATEX	finger-safe
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
certificate of suitability according to ATEX directive 2014/34/EU	BVS 12 ATEX F 002 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex e] [Ex d] [Ex px], II (2)D [Ex t] [Ex p], I (M2) [Ex d]
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	1.6 7 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
operational current	10 %
• at AC at 400 V rated value	7 A
at AC-3 at 400 V rated value	7 A

<ul> <li>at AC-53a at 400 V at ambient temperature 40 °C rated value</li> </ul>	7 A
ampacity when starting maximum	56 A
operating power for 3-phase motors at 400 V at 50 Hz	0.55 3 kW
derating temperature	40 °C
Inputs/ Outputs	40 C
input voltage at digital input	04)/
at DC rated value	24 V
• with signal <0> at DC	05 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	
<ul> <li>in standby mode of operation</li> </ul>	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
<ul> <li>at DC at 24 V at switching on of motor</li> </ul>	130 mA
duration of inrush current peak	
• at 24 V	85 ms
• at DC at 24 V	80 ms
<ul> <li>at DC at 24 V at switching on of motor</li> </ul>	20 ms
power loss [W] in auxiliary and control circuit	
in switching state OFF	
— with bypass circuit	0.35 W
• in switching state ON	
— with bypass circuit	1.37 W
Response times	
ON-delay time	65 76 ms
OFF-delay time	30 43 ms
Power Electronics	
operational current	
• at 40 °C rated value	7 A
• at 50 °C rated value	6.1 A
• at 55 °C rated value	5.2 A
• at 60 °C rated value	4.6 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
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	
installation altitude at height above sea level maximum	4 000 m; For derating see manual
ambient temperature	
during operation	-25 +60 °C
during storage	-40 +70 °C
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	
<ul> <li>PROFINET IO protocol</li> </ul>	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 main current circuit     for auxiliary and control circuit	
	screw-type terminals
for auxiliary and control circuit  wire length for motor unshielded maximum  type of connectable conductor cross-sections for main contacts	screw-type terminals spring-loaded terminals (push-in) 100 m
for auxiliary and control circuit     wire length for motor unshielded maximum	screw-type terminals spring-loaded terminals (push-in) 100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
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	screw-type terminals spring-loaded terminals (push-in) 100 m
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  connectable conductor cross-section for main contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)
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  connectable conductor cross-section for main contacts     solid or stranded	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²
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  connectable conductor cross-section for main contacts     solid or stranded     finely stranded with core end processing	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)
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  connectable conductor cross-section for main contacts     solid or stranded     finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm² 0.5 4 mm²
for auxiliary and control circuit  wire length for motor unshielded maximum  type of connectable conductor cross-sections for main contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²
for auxiliary and control circuit  wire length for motor unshielded maximum  type of connectable conductor cross-sections for main contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²
for auxiliary and control circuit  wire length for motor unshielded maximum  type of connectable conductor cross-sections for main contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²
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  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 without core end processing  type of connectable conductor cross-sections	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²
• 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  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 without core end processing     • for auxiliary contacts     • for auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  0.5 1 mm²  0.5 1.5 mm²
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  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 without core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²)
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  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 without core end processing  type of connectable conductor cross-sections         • for auxiliary contacts         — solid         — finely stranded with core end processing	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²)
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  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         efinely stranded with core end processing         finely stranded without core end processing  type of connectable conductor cross-sections         efor auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²), 2x (0,5 1,0 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
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  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 without core end processing  type of connectable conductor cross-sections         for auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²)
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  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         efinely stranded with core end processing         finely stranded without core end processing  type of connectable conductor cross-sections         efor auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
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  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 without core end processing  type of connectable conductor cross-sections         for auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
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  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 without core end processing  type of connectable conductor cross-sections         for auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
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  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 without core end processing  type of connectable conductor cross-sections         for auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 0.5 1 mm² 0.5 1.5 mm² 1x (0,5 1,5 mm²) 1x (0,5 1,5 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
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  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 without core end processing  type of connectable conductor cross-sections         for auxiliary contacts	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 0.5 1 mm² 0.5 1.5 mm² 1x (0,5 1,5 mm²) 1x (0,5 1,5 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• 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  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 without core end processing  type of connectable conductor cross-sections     • for auxiliary contacts     — solid     — finely stranded with core end processing     — finely stranded without core end processing     — finely stranded without core end processing     • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • for auxiliary contacts  UL/CSA ratings	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 0.5 1 mm² 0.5 1.5 mm² 1x (0,5 1,5 mm²) 1x (0,5 1,5 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• 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  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 without core end processing     • finely stranded without core end processing  type of connectable conductor cross-sections      • for auxiliary contacts     — solid     — finely stranded with core end processing     — finely stranded without core end processing     • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • for auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp]	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm² 0.5 4 mm² 0.5 1.5 mm² 0.5 1 mm² 0.5 1.5 mm² 1x (0,5 1,5 mm²) 1x (0,5 1,5 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• 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      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 without core end processing         • for auxiliary contacts             — solid             — finely stranded with core end processing             — finely stranded without core end processing             — finely stranded without core end processing             — for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for main contacts         • for auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp]         • for single-phase AC motor             — at 110/120 V rated value         — at 230 V rated value	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• 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      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 without core end processing         • finely stranded without core end processing          type of connectable conductor cross-sections         • for auxiliary contacts         — solid         — finely stranded without core end processing         — finely stranded without core end processing         • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section         • for main contacts         • for main contacts         • for auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp]         • for single-phase AC motor         — at 110/120 V rated value	screw-type terminals spring-loaded terminals (push-in)  100 m  1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)  0.5 4 mm²  0.5 4 mm²  0.5 1.5 mm²  1x (0.5 1.5 mm²  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²)  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 1,0 mm²), 2x (0,5 1,0 mm²)  1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)

- at 220/230 V rated value

at 460/480 V rated value

— at 400/400 v rated value

1.5 hp 3 hp

operational current at AC at 480 V according to UL 508 6.1 A

## **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=3RM1107-3AA04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1107-3AA04

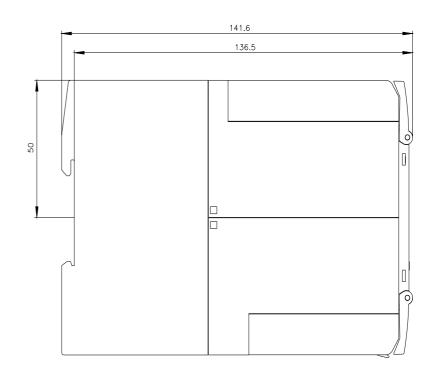
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

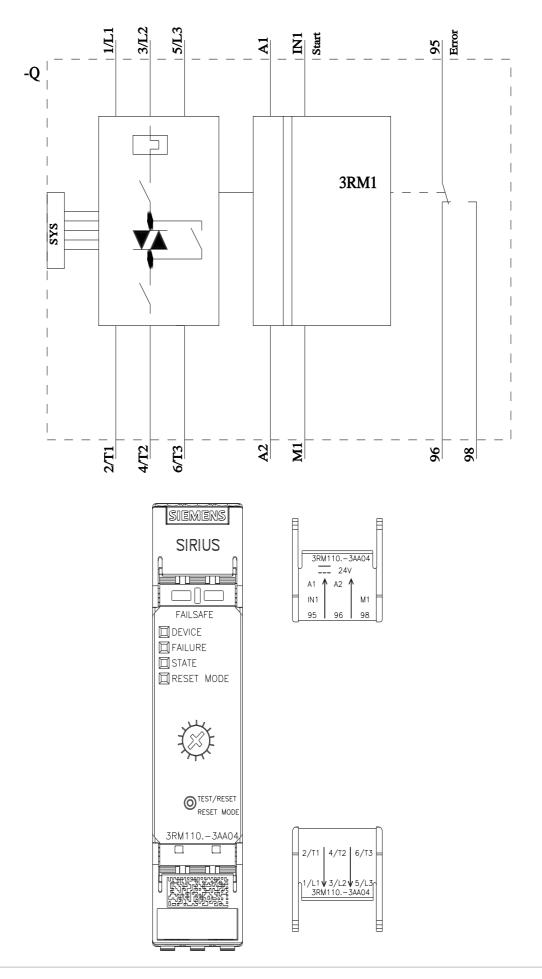
https://support.industry.siemens.com/cs/ww/en/ps/3RM1107-3AA04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RM1107-3AA04&lang=en







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