SIEMENS

Data sheet 3RM1202-2AA04



Reversing starter, 3RM1, 500 V, 0.09 - 0.75 kW, 0.4 - 2 A, 24 V DC, spring-type terminals

trip class equipment variant according to IEC 60947-4-2 3 Reversing starter intrinsic device protection intrinsic protec	product brand name	SIRIUS
design of the product product type designation 3RM1 Soneral technical data trip class	product category	Motor starter
product type designation Seneral technical data trip class equipment variant according to IEC 60947-4-2 3 product function intrinsic device protection of power supply reverse polarity protection No suitability for operation device connector 3ZY12 rinsulation voltage rated value overvoltage category III surge voltage resistance rated value overvoltage category surge voltage resistance rated value between main and auxiliary circuit between main and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit between resistance operating frequency maximum techanical service life (switching cycles) typical ofference code according to IEC 81346-2 Substance Prohibitance (Date) product function officed start reverse starting product function short circuit protection Mo Cass A EMC immunity according to IEC 60947-1 canducted Interference due to conductor-conductor surge according to IEC 61000-4-5 of ude to to onductor-conductor surge according to IEC 61000-4-5 of ude to high-frequency radiation according to IEC 61000-4-5 of ude to high-frequency radiation according to IEC 61000-4-5 of ude to high-frequency radiation according to IEC 61000-4-5 of ude to high-frequency radiation according to IEC 61000-4-5 of ude to high-frequency radiation according to IEC 61000-4-5 of ude to high-frequency radiation according to IEC 61000-4-5	product designation	Reversing starter
rip class CLASS 10A quipment variant according to IEC 60947-4-2 3 product function Reversing starter	design of the product	with electronic overload protection
trip class equipment variant according to IEC 60947-4-2 3 Reversing starter intrinsic device protection intrinsic protec	product type designation	3RM1
equipment variant according to IEC 60947-4-2 product function intrinsic device protection for power supply reverse polarity protection suitability for operation device connector 3ZY12 yes insulation voltage rated value overvoltage category surge voltage resistance rated value between main and auxiliary circuit between footnot and auxiliary circuit between gife (switching cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) product function direct start reverse starting yes product function short circuit protection verse starting product function short circuit protection EMC immunity according to IEC 60947-1 EMC mimunity according to IEC 60947-1 edue to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to to high-frequency radiation according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6	General technical data	
product function intrinsic device protection for power supply reverse polarity protection suitability for operation device connector 3ZY12 insulation voltage rated value overvoltage category surge voltage resistance rated value between main and auxiliary circuit between main and auxiliary circuit between control and auxiliary circuit	trip class	CLASS 10A
intrinsic device protection for power supply reverse polarity protection sultability for operation device connector 3ZY12 Yes insulation voltage rated value overvoltage category III surge voltage resistance rated value between main and auxiliary circuit between control and auxiliary circuit betwe	equipment variant according to IEC 60947-4-2	3
of power supply reverse polarity protection suitability for operation device connector 3ZY12 insulation voltage rated value overvoltage category surge voltage resistance rated value ok kV maximum permissible voltage for safe isolation obetween main and auxiliary circuit obetween control and auxiliary circuit obletween	product function	Reversing starter
suitability for operation device connector 32Y12 insulation voltage rated value overvoltage category surge voltage resistance rated value maximum permissible voltage for safe isolation • between main and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit shock resistance • 6g / 11 ms vibration resistance 1 6 Hz, 15 mm; 20 m/s², 500 Hz operating frequency maximum 11/s mechanical service life (switching cycles) typical mechanical service life (switching cycles) typical mechanical service life (switching cycles) typical odinect stare of the cycles	 intrinsic device protection 	Yes
insulation voltage rated value overvoltage category surge voltage resistance rated value between main and auxiliary circuit between main and auxiliary circuit between control in session control to an oon oon oon oon oon oon oon oon oon	 for power supply reverse polarity protection 	No
overvoltage category III surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation	suitability for operation device connector 3ZY12	Yes
surge voltage resistance rated value maximum permissible voltage for safe isolation • between main and auxiliary circuit • between control and auxiliary circuit shock resistance 6g / 11 ms vibration resistance 1 6 Hz, 15 mm; 20 m/s², 500 Hz perating frequency maximum 1 1/s mechanical service life (switching cycles) typical mechanical service life (switching cycles) typical of irect start of irect start of reverse starting product function of direct start oreverse starting product function short circuit protection Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC emitted interference according to IEC 60947-1 conducted interference of due to burst according to IEC 61000-4-4 of ue to conductor-earth surge according to IEC 61000-4-5 of due to bigh-frequency radiation according to IEC 61000-4-6 of ue to high-frequency radiation according to IEC 61000-4-6 of ue to high-frequency radiation according to IEC 61000-4-6 of ue to high-frequency radiation according to IEC 61000-4-6 of ue to high-frequency radiation according to IEC 61000-4-6	insulation voltage rated value	500 V
maximum permissible voltage for safe isolation • between main and auxiliary circuit • between control and auxiliary circuit • shock resistance • 6g / 11 ms • 1 6 Hz, 15 mm; 20 m/s², 500 Hz • operating frequency maximum • 1 1/s mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) • direct start • firect start • reverse starting product function short circuit protection • Mo Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC emitted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-6 • due to high-frequency radiation according to IEC 61000-4-6	overvoltage category	III
between main and auxiliary circuit between control and auxiliary circuit between control and auxiliary circuit shock resistance vibration resistance vibration resistance operating frequency maximum	surge voltage resistance rated value	6 kV
between control and auxiliary circuit 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 (switching cycles) typical 30 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) officet start oreverse starting reverse starting yes product function short circuit protection EMC emitted interference according to IEC 60947-1 EMC emitted interference according to IEC 60947-1 conducted interference oue to burst according to IEC 61000-4-4 oue to conductor-earth surge according to IEC 61000-4-5 oute to high-frequency radiation according to IEC 61000-4-6	maximum permissible voltage for safe isolation	
shock resistance vibration resistance vibration resistance 1 6 Hz, 15 mm; 20 m/s², 500 Hz operating frequency maximum 1 1/s mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) odirect start of irect start reference seataring roduct function short circuit protection EMC emitted interference according to IEC 60947-1 EMC emitted interference of due to burst according to IEC 61000-4-4 of due to conductor-centh surge according to IEC 61000-4-5 of due to high-frequency radiation according to IEC 61000-4-6 of the maximum of the	 between main and auxiliary circuit 	500 V
vibration resistance operating frequency maximum nechanical service life (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) officet start officet s	 between control and auxiliary circuit 	250 V
operating frequency maximum mechanical service life (switching cycles) typical geference code according to IEC 81346-2 Q Substance Prohibitance (Date) product function of direct start reverse starting of product function short circuit protection Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Class A Conducted interference of due to burst according to IEC 61000-4-4 of due to conductor-earth surge according to IEC 61000-4-5 of due to conductor-conductor surge according to IEC 61000-4-6 of due to high-frequency radiation according to IEC 61000-4-6	shock resistance	6g / 11 ms
mechanical service life (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) product function • direct start • reverse starting product function short circuit protection Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Class A Conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6	vibration resistance	1 6 Hz, 15 mm; 20 m/s², 500 Hz
reference code according to IEC 81346-2 Substance Prohibitance (Date) product function • direct start • reverse starting product function short circuit protection Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Class A Conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-6 • due to high-frequency radiation according to IEC 61000-4-6	operating frequency maximum	1 1/s
Substance Prohibitance (Date) product function	mechanical service life (switching cycles) typical	30 000 000
product function	reference code according to IEC 81346-2	Q
 direct start reverse starting product function short circuit protection No Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 Class A Conducted interference due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 	Substance Prohibitance (Date)	03/01/2017
oreverse starting 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 odue to burst according to IEC 61000-4-4 3 kV / 5 kHz odue to conductor-earth surge according to IEC 61000-4-5 odue to conductor-conductor surge according to IEC 61000-4-5 odue to high-frequency radiation according to IEC 61000-4-6	product function	
product function short circuit protection 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 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6	 direct start 	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 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6	 reverse starting 	Yes
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Class A conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6	product function short circuit protection	No
EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6	Electromagnetic compatibility	
conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6	EMC emitted interference according to IEC 60947-1	class A
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 1 kV 10 V 	EMC immunity according to IEC 60947-1	Class A
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 	conducted interference	
 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 1 kV 10 V 	 due to burst according to IEC 61000-4-4 	3 kV / 5 kHz
• due to high-frequency radiation according to IEC 61000-4-6		2 kV
61000-4-6		1 kV
field-based interference according to IEC 61000-4-3		10 V
sacra	field-based interference according to IEC 61000-4-3	10 V/m

alactrostatic discharge according to IEC 64000 4.2	4 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to	4 kV contact discharge / 8 kV air discharge 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 	2 A
 at AC-53a at 400 V at ambient temperature 40 °C rated value 	2 A
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	44 . A
• for signal <1> at DC	11 mA
with signal <0> at DC	1 mA
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 at	_ 1 3 A
230 V maximum	
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
when switching on	150 mA
during operation	70 mA
duration of inrush current peak at 24 V	85 ms
power loss [W] in auxiliary and control circuit	

in switching state OFF	
— with bypass circuit	0.6 W
in switching state ON	
— with bypass circuit	1.68 W
Response times	
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	2 A
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal, standing (observe derating)
fastening method	screw and snap-on mounting onto 35 mm standard mounting 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	0
— forwards	0 mm
— backwards	0 mm
— upwards	50 mm
-4.451.41 -	0.5
— at the side	3.5 mm
— downwards	3.5 mm 50 mm
— downwards Ambient conditions	50 mm
— downwards Ambient conditions installation altitude at height above sea level maximum	
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature	50 mm 4 000 m; For derating see manual
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	50 mm 4 000 m; For derating see manual -25 +60 °C
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 %
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 %
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 %
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFISafe protocol	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFISafe protocol product function bus communication	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFIsafe protocol product function bus communication protocol is supported AS-Interface protocol	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFIsafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No Spring-loaded terminals (push-in) for main circuit, spring-loaded
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFIsafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No No No No To No No No To No To No No No To
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFISafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection • for main current circuit	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No No No spring-loaded terminals (push-in) for main circuit, spring-loaded terminals (push-in) for control circuit spring-loaded terminals (push-in)
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFIsafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No spring-loaded terminals (push-in) for main circuit, spring-loaded terminals (push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in)
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFIsafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit wire length for motor unshielded maximum	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No spring-loaded terminals (push-in) for main circuit, spring-loaded terminals (push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in)
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFIsafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections • for main contacts — solid	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No Spring-loaded terminals (push-in) for main circuit, spring-loaded terminals (push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m
- downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFISafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection • for main current circuit • 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	4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No
— downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFINET IO protocol • PROFIsafe protocol product function bus communication protocol is supported AS-Interface protocol Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-sections • for main contacts — solid	50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 10 95 % 900 1 060 hPa No No No No No Spring-loaded terminals (push-in) for main circuit, spring-loaded terminals (push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m

connectable conductor cross-section for main contacts	
solid or stranded	0.5 4 mm²
• finely stranded with core end processing	0.5 2.5 mm ²
finely stranded without core end processing	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 1.5 mm ²
 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)
 at 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	
 according to UL rated value 	480 V
 according to CSA rated value 	400 V
Certificates/ approvals	



General Product Approval



Confirmation







EMC

Declaration of Conformity

Test Certificates other Railway



Type Test Certificates/Test Report

Confirmation

Special Test Certificate

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=3RM1202-2AA04

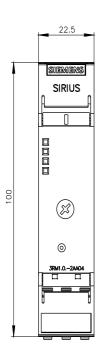
Cax online generator

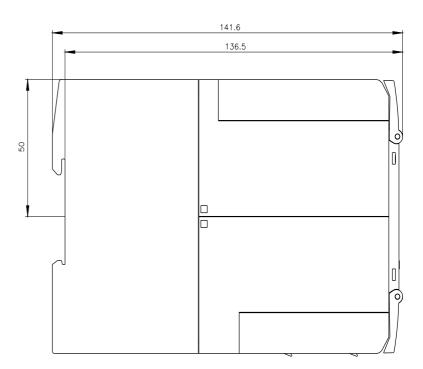
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1202-2AA04

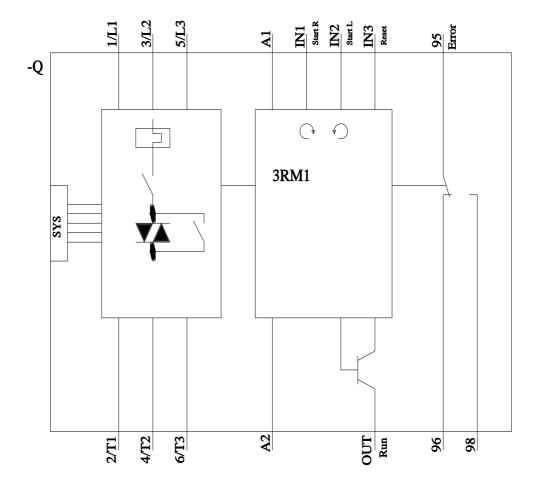
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

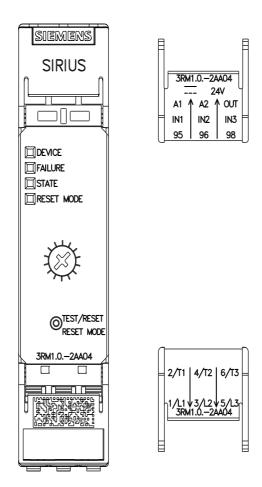
https://support.industry.siemens.com/cs/ww/en/ps/3RM1202-2AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RM1202-2AA04&lang=en









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