SIEMENS

Data sheet 3RM1102-3AA04



Fail-safe direct starter, 3RM1, 500 V, 0.09 - 0.75 kW, 0.4 - 2 A, 24 V DC, screw/spring-type terminals

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	
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	15 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	03/01/2017	
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-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	
safety device type according to IEC 61508-2	Type B
B10d value	2 500 000
Safety Integrity Level (SIL) according to IEC 61508	3
SIL Claim Limit (subsystem) according to EN 62061	SILCL 3
performance level (PL) according to EN ISO 13849-1	e
category according to EN ISO 13849-1	4
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	99 %
average diagnostic coverage level (DCavg)	99 %
diagnostics test interval by internal test function maximum	600 s
function test interval maximum	1a
failure rate [FIT]	
 at rate of recognizable hazardous failures (λdd) 	1 400 FIT
 at rate of non-recognizable hazardous failures (λdu) 	16 FIT
PFHD with high demand rate according to EN 62061	2E-8 1/h
PFDavg with low demand rate according to IEC 61508	0
MTTFd	75 a
hardware fault tolerance according to IEC 61508	1
safe state	Load circuit open
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.0005
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-8 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL2
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 at 400 V rated value at AC-3 at 400 V rated value	2 A
• at AC-53a at 400 V at ambient temperature 40 °C rated	2 A 2 A
value	16.0
ampacity when starting maximum	16 A
operating power for 3-phase motors at 400 V at 50 Hz	0.09 0.75 kW
nputs/ 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	8 mA
• with signal <0> at DC	1 mA
with signal <0> at DC number of CO contacts for auxiliary contacts	1 mA

operational current of auxiliary contacts at DC-13 at 24 V	1 A
maximum	
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 DC at 24 V	300 mA
at DC at 24 V at switching on of motor	130 mA
duration of inrush current peak	
• at DC at 24 V	80 ms
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
in switching state ON	
— with bypass circuit	1.37 W
Response times	
ON-delay time	65 76 ms
OFF-delay time	30 43 ms
Daway Flacturesian	
Power Electronics	
operational current	
operational current • at 40 °C rated value	2 A
operational current • at 40 °C rated value • at 50 °C rated value	2 A
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value	2 A 2 A
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value	2 A
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions	2 A 2 A 2 A
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position	2 A 2 A 2 A vertical, horizontal, standing (observe derating)
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions	2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height	2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width	2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth	2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting	2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards	2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards	2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards	2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 50 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts	2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 50 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards	2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 50 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — at backwards — at the side	2 A 2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — backwards — backwards — backwards — at the side • for grounded parts — forwards — backwards — backwards — upwards	2 A 2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — backwards — backwards — upwards — at the side • for grounded parts — backwards — upwards — backwards — upwards — backwards — upwards — backwards — upwards — at the side	2 A 2 A 2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — backwards — backwards — at the side • backwards — the side • for grounded parts — backwards — backwards — backwards — at the side — downwards — at the side — downwards	2 A 2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — backwards — upwards — at the side • for wards — backwards — at the side — downwards — at the side — downwards — at the side — downwards	2 A 2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm 50 mm 4 mm 50 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — upwards — at the side • for wards — backwards — upwards — at the side • for downwards — backwards — upwards — backwards — upwards — backwards — downwards — hackwards — upwards — backwards — upwards — at the side — downwards Ambient conditions installation altitude at height above sea level maximum	2 A 2 A 2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 55 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — at the side • for wards — backwards — at the side • for grounded parts — forwards — backwards — upwards — backwards — upwards — backwards — upwards — hackwards — installation altitude at height above sea level maximum ambient temperature	2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm 50 mm 0 mm
operational current • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — upwards — backwards — at the side • for grounded parts — forwards — backwards — upwards — hackwards — upwards — hackwards — upwards — at the side — downwards Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	2 A 2 A 2 A 2 A 2 A 2 A 2 A vertical, horizontal, standing (observe derating) screw and snap-on mounting onto 35 mm DIN rail 100 mm 23 mm 142 mm 0 mm 0 mm 50 mm 0 mm 0 mm 50 mm 4 mm 50 mm 4 mm 50 mm 4 mm 50 mm
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(sand must not get Into the devices), 3M6	(sand must not get into the devices), 3M6 air pressure according to SN 31205 900 1 060 hPa		01/0 (i fti
air pressure according to SN 31205 900 1 060 hPa	air pressure according to SN 31205 promunication if Protocol PROFINET IO protocol PROFIse for protocol PRO	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
PROFINET IC protocol Protocol Supported PROFINET IC protocol PROFINET IC PROFINET IC PROFINED IC PROFI	Communication Protocol protocol is supported PROFIEST Liprotocol PROFIEST Liprotocol PROFIEST Uprotocol PROFIEST Uprotocol PROFIEST Uprotocol PROFIEST Uprotocol PROFIEST Uprotocol PROFIEST Uprotocol Protocol is supported AS-Interface protocol No Screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit screw-type terminals spring-loaded terminals (push-in) No mire length for motor unshielded maximum 100 m 10	relative humidity during operation	10 95 %
PROFINET IO protocol No No No PROFINET IO protocol No PROFINET Personal Protocol No No PROFINET Personal Protocol Supported AS-Interface protocol No No Protocol Supported AS-Interface protocol No Protocol Supported AS-Interface protocol No No Protocol Supported AS-Interface protocol No Protocol Protoc	Protocol is supported PROFINET IO protocol PROFINET POTOCOL PROCEINES protocol Product function bus communication Protocol is supported AS-interface protocol Product function bus communication Protocol is supported AS-interface protocol Product function bus communication Protocol is supported AS-interface protocol Product function bus communication Protocol is supported AS-interface protocol Product function bus communication Protocol is supported AS-interface protocol protocol is supporte	air pressure according to SN 31205	900 1 060 hPa
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PROFIsafe protocol Product function bus communication No		protocol is supported	
product function bus communication protocol is supported AS-Interface protocol No No No No No No No No No N	product function bus communication protocol is supported AS-Interface protocol No **Commections** Criminals** **Type of electrical connection ** for main current circuit ** for main current circui	PROFINET IO protocol	No
protocol is supported AS-Interface protocol Protocol is supported AS-Interface protocol Sorew-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit • for main current circuit • for main current circuit • for moin current circuit • for moin current circuit • for moin current circuit • for onnectable 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 connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid — finely stranded without core end processing • for auxiliary contacts — solid — 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 AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for sulliary contacts 20 12 • for main contacts • for sulliary contacts • for auxiliary contacts • for auxiliary contacts • for sulliary contacts • for sulliary contacts • for auxiliary contacts • for sulliary contacts • for auxiliary contacts • for sulliary contacts • for form and the formance (fp) • for shiple-phase AC motor — at 200 V rated value • for 3-phase AC motor — at 200 V rated value • for 3-phase AC motor — at 460/480 V rated value • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary conta	protocol is supported AS-Interface protocol No Connections/ Torminals type of electrical connection • for main current circuit • for auxiliary and control circuit vire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • solid or for auxiliary contacts • fo	PROFIsafe protocol	No
type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control 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 • finely stranded without core end processing • for onnectable conductor cross-sections • for auxiliary contacts • solid — finely stranded without core end processing • for onnectable conductor cross-sections • for auxiliary contacts • for for main contacts • for auxiliary contacts • for for main contacts • for auxiliary contacts • for for main contacts • for auxiliary contacts • for for main co	type of electrical connection • for main current circuit • for auxiliary and control circuit sorew-type terminals 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 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 onnectable conductor cross-sections • for one conductor cross-sections • for one conductor cross-sections • for one stranded • finely stranded with core end processing • finely stranded with core end processing • for one stranded • finely stranded with core end processing • for one stranded with core end processing • for a AWG cables for auxiliary contacts • for a will any contacts •	product function bus communication	No
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 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 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 - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - for salphase AC motor - at 200 Varted value • for 3-phase AC motor - at 200 Varted value • for 3-phase AC motor - at 200 Varted value • for 3-phase AC motor - at 200 Varted value - at 460/480 V rated value - at 460/480 V rated value - operational current at AC at 480 V according to UL 508 cortificators/ approvals	screw-type terminals for main circuit, spring-loaded terminals (push-in) for control circuit • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for main current circuit • 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 with core end processing • for auxiliary contacts • solid • finely stranded with core end processing • for auxiliary contacts • for fall of the stranded without core end processing • for fall of the stranded without core end processing • for fall of the stranded without core end processing • for fall of the stranded without core end processing • for fall of the stranded without core end processing • for fall of the stranded without core end processing • for fall of the stranded without core end processing • for fall of the stranded without core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliar	protocol is supported AS-Interface protocol	No
• for main current circuit • for auxiliary and control 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 tinely 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 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 without core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts AWG number as coded connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 20 15 mm²), 2x (0.5 1,5 mm²) 1x (0.5 1,5 mm²), 2x	• for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit wire length for motor unshielded maximum type of connectable conductor cross-section 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 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 - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for auxiliary contacts - solid - finely stranded without core end processing - solid - finely stranded without core end processing - finely	Connections/ Terminals	
wire length for motor unshielded maximum type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing tinely stranded with core end processing tinely stranded with core end processing tinely stranded with core end processing to solid or stranded finely stranded with core end processing tinely stranded with core end processing tipe of connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core	• 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 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 • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts - solid - finely stranded with core end processing • for AVC scables for auxiliary contacts - solid - finely stranded with core end processing • for AVC scables for auxiliary contacts - solid - finely stranded with core end processing • for for main contacts • for auxiliary contacts - solid - finely stranded with core end processing • for AVC scables for auxiliary contacts - for auxiliary contacts	type of electrical connection	
wire length for motor unshielded maximum 100 m type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) connectable conductor cross-section for main contacts solid or stranded finely stranded with core end processing 0.5 4 mm² connectable conductor cross-section for auxiliary contacts e solid or stranded 0.5 1.5 mm² e solid or stranded with core end processing 0.5 1.5 mm² e finely stranded with core end processing 0.5 1.5 mm² e for auxiliary contacts 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) e for auxiliary contacts 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) e finely stranded with core end processing 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) e for auxiliary contacts 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) e for AWG cables for auxiliary contacts 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) e for for auxiliary contacts 20 12 e for main contacts 20 12 e for main contacts 20 12 e for auxiliary contacts 20 12 JUCSA ratings </td <td>type of connectable conductor cross-section 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 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 - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for for awiliary contacts • for for will core end processing • for for AWG cables for auxiliary contacts • for for awiliary contacts • for single-phase AC motor - at 230 V rated value • for single-phase AC motor - at 200/208 V rated value • for single-phase AC motor - at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • poerational current at AC at 480 V according to UL 508 **Certificatos/approvals**</td> <td>for main current circuit</td> <td>screw-type terminals</td>	type of connectable conductor cross-section 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 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 - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded without core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for for awiliary contacts • for for will core end processing • for for AWG cables for auxiliary contacts • for for awiliary contacts • for single-phase AC motor - at 230 V rated value • for single-phase AC motor - at 200/208 V rated value • for single-phase AC motor - at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • poerational current at AC at 480 V according to UL 508 **Certificatos/approvals**	for main current circuit	screw-type terminals
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 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 ouxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for AWG cables for auxiliary contacts 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) • for AWG cables for auxiliary contacts • for auxiliary contact	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 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 — solid — finely stranded with core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxilia	for auxiliary and control circuit	spring-loaded terminals (push-in)
• 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 connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing cinely stranded without core end proces		wire length for motor unshielded maximum	100 m
of finely stranded with core end processing connectable conductor cross-section for main contacts oslid or stranded of finely stranded with core end processing connectable conductor cross-section for auxiliary contacts oslid or stranded of finely stranded with core end processing of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of finely stranded without core end processing of for auxiliary contacts of finely stranded without core end processing of for auxiliary contacts of or auxiliary contacts of or auxiliary contacts of finely stranded without core end processing of for AWG cables for auxiliary contacts of or auxiliary contacts	• 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 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 - solid - solid - solid - finely stranded with core end processing - 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 20 12 • for auxiliary contacts 20 12 • for auxiliary contacts - solid - for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 16 ILICSA ratings yielded mechanical performance [hp] • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 220 V rated value • for 3-phase AC motor - at 220 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 460/480 V rated value - operating voltage at AC rated value operating voltage at AC rated value operational current at AC at 480 V according to UL 508 2 Acceptificates/approvals	type of connectable conductor cross-sections for main contacts	
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 • finely stranded without core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for main contacts • for or auxiliary contacts - for or auxiliary contacts - for or single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 420/230 V rated value - at 200/208 V rated value - at 480/480 V rated value - at 480/480 V rated value - at 480/480 V rated value - operating voltage at AC rated value - oper	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 • finely stranded without core end processing • for auxiliary contacts - solid - solid - finely stranded with 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 • for auxiliary contacts • for 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 460/480 V rated value - at 460/480 V rated value • operating voltage at AC rated value • operating voltage at AC rated value • operational current at AC at 480 V according to UL 508 **Exercificates/approvals**	• solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
Solid or stranded Inlety stranded with core end processing O.5 4 mm² O.5 1.5 mm² O.5 1 mm² Inlety stranded with core end processing Inlety stranded with core end processing O.5 1.5 mm² O.5 1.5 mm² O.5 1.5 mm² Itype of connectable conductor cross-sections Inlety stranded with core end processing Inlety stranded without end proma" Inlety stranded without end proma" Inlety stranded without end proma" Inlety stranded without end processing Inlety stranded without end proma" Inlety stranded without end processing Inlety stranded without end proma" Inlety stranded without end processing Inlety stranded w	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 ifinely stranded with core end processing ifinely stranded without core end processing ifinely stranded without core end processing ifinely stranded without core end processing if or auxiliary contacts ifinely stranded with core end processing if or auxiliary contacts ifinely stranded with core end processing ifinely stranded with core end processing ifinely stranded without core end processing if (0.5 1.5 mm²), 2x (0.5 1.5 mm²) if (0.5 1.5 mm²), 2x (0.5	finely stranded with core end processing	1x (0,5 4 mm²), 2x (0,5 1,5 mm²)
e finely stranded with core end processing connectable conductor cross-section for auxiliary contacts e solid or stranded e finely stranded with core end processing e finely stranded with core end processing e finely stranded without core end processing 0.5 1.5 mm² type of connectable conductor cross-sections e for auxiliary contacts - solid - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing e for AWG cables for auxiliary contacts 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 • for auxiliary contacts 20 12 • for auxiliary contacts 20 16 JUCSA ratings yielded mechanical performance [hp] • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 220/230 V rated value 0.125 hp • for 3-phase AC motor - at 220/230 V rated value 0.33 hp - at 460/480 V rated value 0.35 hp - at 460/480 V rated value 0.75 hp operating voltage at AC rated value operating voltage at AC rated value 0.75 hp operational current at AC at 480 V according to UL 508 ≥critificates/approvals	connectable conductor cross-section for auxiliary contacts	connectable conductor cross-section for main contacts	
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 • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for AWG cables for auxiliary contacts - for AWG cables for auxiliary contacts • for ramin contacts • for ramin contacts • for for in auxiliary contacts - for or auxiliary contacts 2 0 12 • for auxiliary contacts • for for auxiliary contacts • for for auxiliary contacts • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 220/230 V rated value • for 3-phase AC motor - at 220/230 V rated value • for 3-phase AC motor - at 460/480 V rated value 0 .033 hp - at 460/480 V rated value 0 .075 hp operating voltage at AC rated value 480 V operational current at AC at 480 V according to UL 508 Exercificates/approvals	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 • 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 20 12 • for auxiliary contacts LICSA 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 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value 0.75 hp operating voltage at AC rated value operating voltage at AC rated value operational current at AC at 480 V according to UL 508 Partificates/approvals	 solid or stranded 	0.5 4 mm²
solid or stranded inely stranded with core end processing inely stranded without core end processing inely stranded with core end processing inely stranded with core end processing inely stranded without core end processing indicators in stranded without core end processing indicators in stranded without core end processing indicators in stranded without core end processing in stranded without core end	solid or stranded inely stranded with core end processing inely stranded without core end processing inely stranded with core end processing inely stranded with core end processing inely stranded with core end processing inely stranded without core end processing in the strandard of	 finely stranded with core end processing 	0.5 4 mm²
• 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 20 12 • for auxiliary contacts 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 220/230 V rated value — at 460/480 V rated value 0.33 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 certificates/ approvals	• 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 20 12 • for auxiliary contacts 20 16 **DIJCSA ratings** **Jelded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value 0.33 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 **Sertificates/approvals**	connectable conductor cross-section for auxiliary contacts	
• finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing — finely stranded with core end processing — finely stranded without 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 • for auxiliary contacts vielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value 0.75 hp Operating voltage at AC rated value Operating voltage at AC rated value Operational current at AC at 480 V according to UL 508 Partificates/approvals	• finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing — finely stranded with core end processing — finely stranded without 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 20 12 — for auxiliary contacts yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value — of r3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value operating voltage at AC rated value operating voltage at AC rated value operational current at AC at 480 V according to UL 508 errifficates/approvals	 solid or stranded 	0.5 1.5 mm²
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 1 x (0.5 1.5 mm²), 2x (0.5 1,0 mm²) — finely stranded without core end processing 1 x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts Vielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • or 3-phase AC motor — at 220/230 V rated value 0.33 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 Certificates/ approvals	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 1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²) — 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 20 12 • for auxiliary contacts 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 • for 3-phase AC motor — at 220/230 V rated value 0.33 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 ertificates/approvals	 finely stranded with core end processing 	0.5 1 mm²
• for auxiliary contacts — solid — finely stranded with core end processing — finely stranded without core end processing — tx (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (20 1.5 mm²), 2x (0.5 1.5 mm²) 1x (20 1.5 mm²) 2x (20 16) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 16 JL/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 • o.33 hp — at 460/480 V rated value 0.33 hp — at 460/480 V rated value 0.75 hp operating voltage at AC rated value operating voltage at AC rated value 480 V operational current at AC at 480 V according to UL 508 Excitificates/approvals	• for auxiliary contacts — solid — finely stranded with core end processing — finely stranded without core end processing — 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 1x (20 16), 2x (20 16) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 16 JL/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 • for 3-phase AC motor — at 200/208 V rated value • 0.33 hp — at 460/480 V rated value 0.75 hp operating voltage at AC rated value operating voltage at AC rated value 480 V operational current at AC at 480 V according to UL 508 2 A certificates/ approvals	 finely stranded without core end processing 	0.5 1.5 mm²
solid	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 IL/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 0.33 hp at 220/230 V rated value 0.33 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 or finely stranded with core end processing 1x (0.5 1,0 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 1,0 mm²), 2x (0.5 1,0 mm²) 1x (0.5 1,5 mm²), 2x (0.5 1,0 mm²) 1x (0.5 1,5 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 (20 16) 1x (20 16) 1x (20 16) 1x (20 16) 1x (20 16) 1x (20 16) 1x (20 15 mm²) 1x (20 16) 1x (20	type of connectable conductor cross-sections	
— finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing	— 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 20 12 • for auxiliary contacts 20 16 L/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 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 480 V operational current at AC at 480 V according to UL 508 2x (20 16) 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 1,0 mm²), 2x (0,5 1,0 mm²) 1x (20 16), 2x (20 16) 1x (20 16, 2x (20 1	 for auxiliary contacts 	
— 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 20 12 • for auxiliary contacts 20 16 **JL/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 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value operational current at AC at 480 V according to UL 508 Certificates/ approvals	— 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 20 12 • for auxiliary contacts 20 16 **DL/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 200/230 V rated value — at 460/480 V rated value Operating voltage at AC rated value Operational current at AC at 480 V according to UL 508 **Eactificates/ approvals**	— solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts for auxiliary contacts if or auxiliary contacts if	for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts if or a	 finely stranded with core end processing 	1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 20 16 JL/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 220/230 V rated value 0.33 hp — at 220/230 V rated value 0.33 hp operating voltage at AC rated value 480 V operational current at AC at 480 V according to UL 508 Certificates/ approvals	AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 16 JL/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 0.33 hp — at 220/230 V rated value 0.33 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	 finely stranded without core end processing 	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
• for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 16 JL/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 0.33 hp — at 220/230 V rated value 0.33 hp — at 460/480 V rated value 0.75 hp operating voltage at AC rated value operational current at AC at 480 V according to UL 508 Certificates/ approvals	• for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 16 **JL/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 220/230 V rated value 0.33 hp — at 460/480 V rated value 0.75 hp operating voltage at AC rated value operational current at AC at 480 V according to UL 508 20 12 20 12 20 12 20 16	 for AWG cables for auxiliary contacts 	1x (20 16), 2x (20 16)
• for main contacts • for auxiliary contacts • for auxiliary contacts 20 16 JL/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 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Operating voltage at AC rated value operational current at AC at 480 V according to UL 508 Certificates/ approvals			
for auxiliary contacts ### 20 16 ### 30 JL/CSA ratings ### yielded mechanical performance [hp]	for auxiliary contacts ### 20 16 ### 30 L/CSA ratings ### yielded mechanical performance [hp]		20 12
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 0.33 hp — at 220/230 V rated value 0.33 hp — at 460/480 V rated value 0.75 hp operating voltage at AC rated value 480 V certificates/ approvals	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 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value operational current at AC at 480 V according to UL 508 Certificates/ approvals		
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 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value 0.75 hp operating voltage at AC rated value 480 V certificates/ approvals	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 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value operating voltage at AC rated value operational current at AC at 480 V according to UL 508 Certificates/ approvals		20 10
for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value 0.75 hp operating voltage at AC rated value operational current at AC at 480 V according to UL 508 Certificates/ approvals	for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — 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 Certificates/ approvals		
 — at 230 V rated value ● for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value O.75 hp Operating voltage at AC rated value 480 V Operational current at AC at 480 V according to UL 508 2 A 	- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 0.33 hp - at 220/230 V rated value 0.33 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		
● for 3-phase AC motor — at 200/208 V rated value 0.33 hp — at 220/230 V rated value 0.33 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	● for 3-phase AC motor — at 200/208 V rated value 0.33 hp — at 220/230 V rated value 0.33 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		0.125 hp
- at 200/208 V rated value 0.33 hp - at 220/230 V rated value 0.35 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	- at 200/208 V rated value 0.33 hp - at 220/230 V rated value 0.33 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		0.120 Hp
— at 220/230 V rated value 0.33 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	— at 220/230 V rated value 0.33 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	•	0.33 hn
— 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	— 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		
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Certificates/ approvals	Certificates/ approvals	· · · · · · · · · · · · · · · · · · ·	
		·	271
	General Product Approval	· · · · · · · · · · · · · · · · · · ·	



Confirmation









For use in hazardous locations Functional Safety/Safety of Machinery

Declaration of Conformity

other



Type Examination Certificate





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=3RM1102-3AA04

Cax online generator

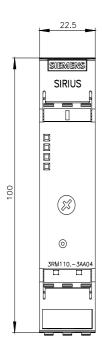
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1102-3AA04

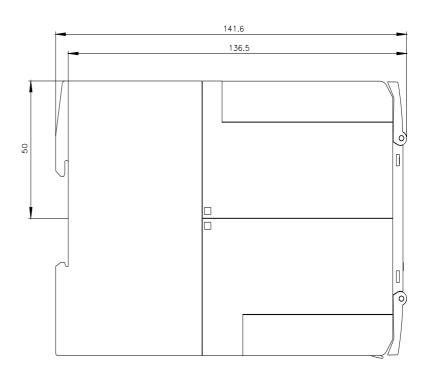
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

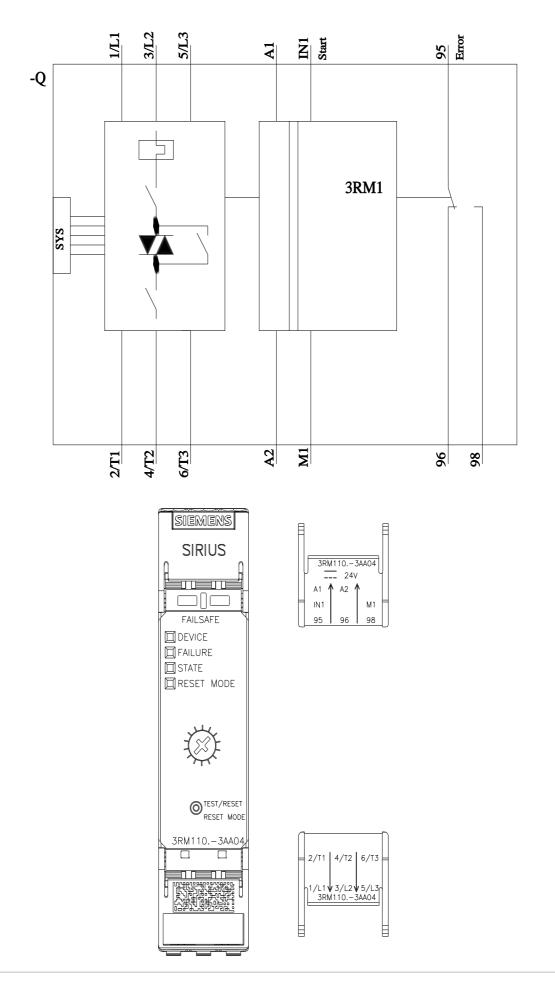
https://support.industry.siemens.com/cs/ww/en/ps/3RM1102-3AA04

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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