## SIEMENS

## Data sheet

## 3RM1101-3AA04



fail-safe direct-on-line starter, 3RM1, 500 V, 0 - 0.12 kW, 0.1 - 0.5 A, 24 V DC, screw/spring-loaded terminals (push-in)

product brand name	SIRIUS
product category	Motor starter
product designation	Fail-safe direct starter
design of the product	With electronic overload protection and safety-related disconnection
product type designation	3RM1
General technical data	
equipment variant according to IEC 60947-4-2	3
product function	fail-safe direct starter
intrinsic device protection	Yes
<ul> <li>for power supply reverse polarity protection</li> </ul>	Yes
suitability for operation device connector 3ZY12	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.01 W
<ul> <li>without load current share typical</li> </ul>	1.37 W
insulation voltage rated value	500 V
overvoltage category	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
<ul> <li>between main and auxiliary circuit</li> </ul>	500 V
<ul> <li>between control and auxiliary circuit</li> </ul>	250 V
shock resistance	6g / 11 ms
operating frequency maximum	1 1/s
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
product function	
direct start	Yes
reverse starting	No
product function short circuit protection	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	3 kV / 5 kHz
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	4 kV signal lines 2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	2 kV
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	10 V

field based interference according to IEC 61000.4.2	10 \//m
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to	6 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	
diagnostics test interval by internal test function maximum	600 s
safe state	Load circuit open
function test interval maximum	1a
stop category according to EN 60204-1	0
failure rate [FIT] at rate of recognizable hazardous failures ( $\lambda$ dd)	1 400 FIT
failure rate [FIT] at rate of non-recognizable hazardous failures (λdu)	16 FIT
B10d value	2 500 000
average diagnostic coverage level (DCavg)	99 %
	75 a
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
	4 Туре В
safety device type according to IEC 61508-2	99.4 %
Safe failure fraction (SFF)	
hardware fault tolerance according to IEC 61508	1
T1 value for proof test interval or service life according to IEC 61508	20 a
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	0.1 0.5 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	0.5 A
• at AC-3 at 400 V rated value	0.5 A
<ul> <li>at AC-53a at 400 V at ambient temperature 40 °C rated value</li> </ul>	0.5 A
ampacity when starting maximum	4 A
operating power for 3-phase motors at 400 V at 50 Hz	0 0.12 kW
Inputs/ Outputs	
input voltage at digital input	
at DC rated value	24 V
• with signal <0> at DC	0 5 V
• for signal <1> at DC	15 30
input current at digital input	
• for signal <1> at DC	8 mA
• with signal <0> at DC	1 mA

Initial for Control and any chicks at AC-15 at 23 V         3 A           operations         Image: Control and Control         Image: Control Control           opperations         Control circuit Control         Image: Control Control           opperations         Control Control         Image: Control Control           opperations         Control Control Supply voltage         Image: Control Control           opperations         Control Control Control Supply voltage         Image: Control Control Control Supply voltage           opperations         Control Control Control Control Supply voltage at 20 %         Image: Control Control Control Control Supply voltage at 20 %           opperation         Control Control Control Supply voltage at 20 %         Image: Control Control Supply voltage at 20 %           opperation         Control Control Control Supply voltage at 20 %         Image: Control Control Supply voltage at 20 %           opperation         Control Control Control Supply voltage at 20 %         Image: Control Control Supply voltage at 20 %           opperation         Control Control Control Supply voltage at 20 %         Image: Control Control Supply voltage at 20 %           opperation         Control Con	number of CO contacto for cuviliany contacto	1
maximum	number of CO contacts for auxiliary contacts	
maximum         Product a length of this control supply voltage         DC           control supply voltage at DC redet value         19.2. 30 V           control supply voltage at DC redet value         20 %.           control supply voltage at DC redet value         24 V           control supply voltage at DC redet value         24 V           control supply voltage redet value         25 M           control supply voltage redet value         26 M           et al V         30 mA           et al V		58
Control incluib         DC           type of voltage of the control supply voltage at DC med value         19.2	operational current of auxiliary contacts at DC-13 at 24 V	1 A
Type of voltage of the control supply voltage at DC         DC           control supply voltage at DC rined value         18 2 30 V           control supply voltage at DC rined value         20 %           control supply voltage at DC rined value         24 V           operating range factor control supply voltage at DC rined value         24 V           operating range factor control supply voltage at DC rined value         08           • Initial value         09           • Initial value         010 mA           • Initial value         010 mA           • Initial value         028 x values at 25 °C           • Initial value         028 ma           • Initial value         028 ma           • Initial value         00		
control supply votage at IDC rate value         19.2		
Politive tolerance of the control supply voltage at C.         20 %           central supply voltage 1 at C.         25 %           central supply voltage 1 at C.         24 V           operating range factor control supply voltage rated value         24 V           • infait volue         0.8           • infait volue         0.8           • infait volue         1.25           control supply voltage rated value at C         1.25           • infait volue         0.8           • infait volue         1.27           • in stantby mode of operation         57 mA           • instand unret peak         1           • if C. at 24 V         0.28 A; values at 25 °C           • if C. at 24 V         0.28 M; values at 25 °C           • if C. at 24 V         0.28 M; values at 25 °C           • if C. at 24 V         0.28 M; values at 25 °C           • if C. at 24 V         85 ms           • if C. at 24 V         85 ms           • if C. at 24 V         85 ms           • if C. at 24 V         80 ms           • if C. at 24 V         85 ms           • if C. at 24 V         80 ms           • if C. at 24 V         80 ms           • if C. at 24 V         80 ms           • if C. at 24 V <th></th> <th></th>		
DC         Control supply voltage at particle positive tolerance of the control supply voltage at control supply voltage 1 at DC med value         28 V           operating range factor control supply voltage rated value at CC         24 V           operating range factor control supply voltage rated value at CC         0.8           initial value         0.5           initial valu		
Instruction         25 %           control supply voltage at DC inter value         24 V           operating range factor control supply voltage rated value at operating range factor control supply voltage rated value at indial value         24 V           • indial value         0.8           • indial value         1.25           • indial value         1.25           • indial value         0.8           • in dial value         1.25           • indial value         0.8           • india value         0.8           • india value         0.8           • india value         1.25           • of Control         0.00 mA           • at DC at 24 V         0.28 A; values at 25 °C           • at DC at 24 V         0.28 A; values at 25 °C           • at DC at 24 V         0.28 M ma           • at DC at 24 V         0.28 M ma           • at DC at 24 V         0.28 M ma           • at DC at 24 V         0.28 M ma           • at DC at 24 V         0.28 M ma           • at DC at 24 V         0.28 M ma           • at DC at 24 V         0.35 M		20 %
operating inge factor control supply voltage rated value at C         0.8           initial value         0.8           initial value         1.25           control current at DC         13 mA           in darathy mode of operation         57 mA           intrab current pask         0.8           intrab current pask         0.5 M           intrab current pask         0.35 W           in witching state OF         0.4 W           - with bypass circuit         0.5 A           in witching state ON         0.5 A           - with bypass circuit         0.5 A           in witching state ON         0.5 A           in witching state ON         0.5 A           in witching state ON         0.5 A           int 60 °C rated value <th>relative positive tolerance of the control supply voltage at</th> <th>25 %</th>	relative positive tolerance of the control supply voltage at	25 %
b         0.8           • initial value         0.8           • initial value         1.25           control current at DC         57 mA           • in stationy mode of operation         57 mA           • initial value         0.28 A, values at 25 °C           • at 24 V         0.28 A, values at 25 °C           • at 24 V         0.28 A, values at 25 °C           • at 24 V         0.28 A, values at 25 °C           • at 24 V         0.28 A, values at 25 °C           • at 24 V         0.28 A, values at 25 °C           • at 24 V         0.28 A, values at 25 °C           • at DC at 24 V at switching on of motor         130 mA           • at DC at 24 V         80 ms           • at DC at 24 V         80 ms           • at DC at 24 V at switching on of motor         20 ms           • at DC at 24 V at switching on of motor         20 ms           • at DC at 24 V at switching on of motor         0.35 W           • at DC at 24 V at switching on of motor         1.37 W           Power loss (W) in auxiliary and control circuit         -           • at 40 °C rated value         0.5 A           • at 40 °C rated value         0.5 A           • at 50 °C rated value         0.5 A           • at 50 °C rated value	control supply voltage 1 at DC rated value	24 V
• full-scale value1.25control current at DC13 mA• during operation57 mA• in standy mode of operation0.28 At values at 25 °C• at DC at 24 V300 mA• at DC at 24 V is switching on of motor0.28 At values at 25 °C• at DC at 24 V is switching on of motor0.28 At values at 25 °C• at DC at 24 V is switching on of motor0.28 At values at 25 °C• at DC at 24 V is switching on of motor0.20 mA• at DC at 24 V is switching on of motor20 ms• at DC at 24 V is switching on of motor0.35 W• at DC at 24 V is switching on of motor0.35 W• in switching stato OFF0.35 W• with bypass circuit0.35 W• in switching stato OFF0.35 W• with bypass circuit0.35 W• in switching stato OFF0.35 W• with bypass circuit0.5 A• in switching stato OFF0.5 A• with bypass circuit0.5 A• at 30 °C rated value0.5 A		
control current at DC           • in standby mode of operation           • during operation           • during operation           • att 24 V           • att 24 V at switching on of motor           • att 24 V at switching on of motor           • att 24 V at switching on of motor           • att 24 V at switching on of motor           • att 24 V at switching on of motor           • att 24 V at switching on of motor           • att DC at 24 V at switching on of motor           • att DC at 24 V at switching state OFF           - with bypass circult         0.35 W           • in switching state ON           - with bypass circult         0.35 W           • in switching state ON         -           - with bypass circult         0.5 A           • at 40 °C rated value         0.5 A           • at 60 °C rated value         0.5 A           <	initial value	0.8
in standby mode of operation13 mA• during operation57 mA• intrush current peak0.28 A; values at 25 °C• at 24 V0.28 A; values at 25 °C• at DC at 24 V at switching on of motor130 mA• at DC at 24 V at switching on of motor130 mA• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching state OFF50 ms• with bypass circuit3.37 W <b>Peaponse tircuit</b> 0.35 W• in switching state OFF50 ms• off at datab0.5 A• at 40 °C rated value0.5 A• at 40 °C rated value0.5 A• at 40 °C rated value0.5 A• at 50 °C rated value0.5 A <t< th=""><th>full-scale value</th><th>1.25</th></t<>	full-scale value	1.25
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Inrush current peak         028 A; values at 25 °C           • at 2C at 24 V         030 mA           • at DC at 24 V1         300 mA           • at DC at 24 V1         300 mA           • at DC at 24 V1         85 ms           • at DC at 24 V1         0.5 M           • member         0.5 A           • at 30 °C rated value         0.5 A           • at 50 °C rated value         0.5 A           • a	<ul> <li>in standby mode of operation</li> </ul>	13 mA
• at 24 V0.28 A; values at 25 °C• at DC at 24 V300 mA• at DC at 24 V at witching on of motor130 mAduration of inrush current peak85 ms• at 24 V80 ms• at DC at 24 V at witching on of motor20 ms• at DC at 24 V at witching on of motor20 ms• at DC at 24 V at witching on of motor20 ms• ot DC at 24 V at witching on of motor20 ms• ot DC at 24 V at witching on of motor20 ms• ot DC at 24 V at witching on of motor20 ms• ot maxitching state OFF	during operation	57 mA
• at DC at 24 V300 mÅ• at DC at 24 V at switching on of motor10 mÅ• at 24 V85 ms• at 24 V80 ms• at DC at 24 V20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching on of motor20 ms• at DC at 24 V at switching state OF with bypass circuit0.35 W• in switching state ON with bypass circuit0.35 W• newit bypass circuit0.35 WOF-delay time65 76 msOF-delay time0.5 A• at 40 °C rated value0.5 A• at 50 °C rated value0.5 A• at 60 °C rated value0.5 M• at 60 °C rated value0 °C m• at 60 °C rated value0 °C m <td< th=""><th>-</th><th></th></td<>	-	
• at DC at 24 V at switching on of motor130 mAduration of inrush current peak85 ms• at DC at 24 V80 ms• at DC at 24 V80 ms• at DC at 24 V at switching on of motor20 mspower loss [W] in auxillary and control circuit0.35 W• in switching state OFF		
duration of Inrush current pack     85 ms       • at 24 V     80 ms       • 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     20 ms       • in switching state OFF     0.35 W       - with bypass circuit     0.35 W       • in switching state OFF     0.35 W       - with bypass circuit     1.37 W       Response times     05		
• at 24 V85 ms• at DC at 24 V80 ms• at DC at 24 V at switching on of motor20 mspower loss [M] in auxiliary and control circuit0.35 W• in switching state OFF0.35 W• with bypass circuit0.35 W• with bypass circuit0.35 W- with bypass circuit0.35 W- with bypass circuit0.35 W- with bypass circuit0.5 msOH-delay time65 76 msOFF-delay time0.5 A• at 40 °C rated value0.5 A• at 40 °C rated value0.5 A• at 60 °C rate		130 mA
• at DC at 24 V80 ms• at DC at 24 V at whithing on of motor20 mspower loss [W] in auxillary and control circuit	-	
• at DC at 24 V at switching on of motor     20 ms       power loss (W) in auxiliary and control circuit		
power loss [W] in auxiliary and control circuit              in switching state OFF		
• in switching state OFF		20 ms
• in switching state ON    37 W       Response times    37 W       ON-delay time     6576 ms       OFF-delay time     3043 ms       Power Electronics	-	0.05 W
with bypass circuit     1.37 W       Response times       ON-delay time     65 76 ms       OFF-delay time     30 43 ms       Power Electronics     0.5 A       • at 40 °C rated value     0.5 A       • at 50 °C rated value     0.5 A       • at 50 °C rated value     0.5 A       • at 50 °C rated value     0.5 A       • at 60 °C rated value     0.5 A       Installation/ mounting/ dimensions     wetrical, horizontal, standing (observe derating)       fastening method     screw and snap-on mounting onto 35 mm DIN rail       height     100 mm       with hide-by-side mounting     -       - forwards     0 mm       - backwards     0 mm       - at the side     0 mm       - downwards     0 mm       - at the side     0 mm       - ba		0.35 W
Response times         ON-delay time       65 76 ms         OFF-dolay time       30 43 ms         Power Electronics       0         operational current       0.5 A         • at 40 °C rated value       0.5 A         • at 50 °C rated value       0.5 A         • at 60 °C rated value       0.5 A         Installation/ mounting/ dimensions       0.5 A         mounting position       vertical, horizontal, standing (observe derating)         fastening method       screw and snap-on mounting onto 35 mm DIN rail         height       100 mm         width       22.5 mm         depth       141.6 mm         required spacing       •         • with side-by-side mounting       0 mm         - backwards       0 mm         - at the side       0 mm         - backwards       0 mm         - at the side       0 mm         - at the side       3.5 mm         - at the side       3.5 mm         - backwards       0 mm         - backwards       0	-	4.97 \\\\
ON-delay time       65 76 ms         OFF-delay time       30 43 ms         Power Electronics		1.57 W
OFF-delay time       30 43 ms         Power Electronics		65 76 ms
Power Electronics         operational current         • at 40 °C rated value       0.5 A         • at 50 °C rated value       0.5 A         • at 60 °C rated value       0.5 A         Installation/ mounting/ dimensions       0.5 A         mounting position       vertical, horizontal, standing (observe derating)         fastening method       screw and snap-on mounting onto 35 mm DIN rail         height       100 mm         width       22.5 mm         depth       141.6 mm         required spacing       0 mm         - forwards       0 mm         - upwards       50 mm         - at the side       0 mm         - at the side       0 mm         - at the side       0 mm         - forwards       0 mm         - at the side       0 mm         - forwards       0 mm         - downwards       50 mm         - at the side       0 mm         - forwards       0 mm         - at the side       0 mm         - downwards       50 mm         - downwards       50 mm         - downwards       50 mm         - downwards       50 mm         - downwards <td< th=""><th></th><th></th></td<>		
operational current         0.5 A           • at 40 °C rated value         0.5 A           • at 50 °C rated value         0.5 A           • at 50 °C rated value         0.5 A           • at 60 °C rated value         0.5 A           • at 60 °C rated value         0.5 A           • at 60 °C rated value         0.5 A           Installation/ mounting/ dimensions         vertical, horizontal, standing (observe derating)           fastening method         screw and snap-on mounting onto 35 mm DIN rail           height         100 mm           width         22.5 mm           depth         141.6 mm           required spacing         •           • with side-by-side mounting         0 mm           - forwards         0 mm           - downwards         50 mm           - at the side         0 mm           - downwards         50 mm           - at the side         0 mm           - backwards         0 mm           - at the side         0 mm           - downwards         50 mm           - at the side         0 mm           - downwards         50 mm           - at the side         3.5 mm           - downwards         50 mm  <	-	
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• at 60 °C rated value0.5 AInstallation/ mounting/ dimensionsmounting positionvertical, horizontal, standing (observe derating)fastening methodscrew and snap-on mounting onto 35 mm DIN railheight100 mmwidth22.5 mmdepth141.6 mmrequired spacing• with side-by-side mounting0 mm- forwards0 mm- backwards0 mm- upwards50 mm- at the side0 mm- forwards0 mm- at the side0 mm- at the side3.5 mm		
Installation/ mounting/dimensions           mounting position         vertical, horizontal, standing (observe derating)           fastening method         screw and snap-on mounting onto 35 mm DIN rail           height         100 mm           width         22.5 mm           depth         141.6 mm           required spacing            • with side-by-side mounting         0 mm           - forwards         0 mm           - backwards         0 mm           - upwards         50 mm           - at the side         0 mm           - backwards         0 mm           - forwards         0 mm           - at the side         0 mm           - upwards         50 mm           - at the side         0 mm           - backwards		
mounting position         vertical, horizontal, standing (observe derating)           fastening method         screw and snap-on mounting onto 35 mm DIN rail           height         100 mm           width         22.5 mm           depth         141.6 mm           required spacing <ul> <li>forwards</li> <li>for mm</li> <li>dewinwards</li> <li>for grounded parts</li> <li>for grounded parts</li> <li>forwards</li> <li>for mm</li> <li>forwards</li> <li>for mm</li> <li>backwards</li> <li>forwards</li> <li>forwards</li> <li>for mm</li> <li>for mm</li> <li>forwards</li> <li>forwards</li> <li>for mm</li> <li>forwards</li> <li>for mm</li> <li>forwards</li> <li>for mm</li> <li>for mm</li> <li>for mm</li> <li>for mm</li></ul>	Installation/ mounting/ dimensions	
fastening method       screw and snap-on mounting onto 35 mm DIN rail         height       100 mm         width       22.5 mm         depth       141.6 mm         required spacing       - <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>o mm</li> <li>backwards</li> <li>o mm</li> <li>- downwards</li> <li>o mm</li> <li>- at the side</li> <li>o mm</li> <li>backwards</li> <li>o mm</li> <li>- forwards</li> <li>o mm</li> <li>- at the side</li> <li>o mm</li> <li>- backwards</li> <li>- forwards</li> <li>- for</li></ul>		vertical, horizontal, standing (observe derating)
height100 mmwidth22.5 mmdepth141.6 mmrequired spacing• with side-by-side mounting0 mm- forwards0 mm- backwards0 mm- upwards50 mm- downwards0 mm- at the side0 mm- forwards0 mm- forwards0 mm- at the side0 mm- backwards0 mm- forwards0 mm- forwards0 mm- at the side0 mm- backwards0 mm- backwards0 mm- backwards0 mm- upwards50 mm- at the side3.5 mm- at the side3.5 mm- at the side3.5 mm		
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required spacing• with side-by-side mounting- forwards0 mm- backwards0 mm- upwards50 mm- downwards50 mm- at the side0 mm• for grounded parts0 mm- forwards0 mm- backwards0 mm- forwards0 mm- at the side0 mm- forwards0 mm- forwards0 mm- forwards0 mm- backwards0 mm- backwards0 mm- upwards50 mm- at the side3.5 mm- at the side50 mm	width	22.5 mm
• with side-by-side mounting- forwards0 mm- backwards0 mm- upwards50 mm- downwards50 mm- downwards0 mm- at the side0 mm• for grounded parts0 mm- forwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards50 mm- at the side3.5 mm- downwards50 mm	depth	141.6 mm
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backwards0 mm upwards50 mm downwards50 mm downwards0 mm at the side0 mm forwards0 mm backwards0 mm backwards0 mm backwards50 mm upwards50 mm at the side3.5 mm downwards50 mm	<ul> <li>with side-by-side mounting</li> </ul>	
- upwards50 mm- downwards50 mm- downwards50 mm- at the side0 mm• for grounded parts0 mm- forwards0 mm- backwards0 mm- backwards50 mm- upwards50 mm- at the side3.5 mm- downwards50 mm	— forwards	0 mm
downwards50 mm at the side0 mm• for grounded parts forwards0 mm backwards0 mm upwards50 mm at the side3.5 mm downwards50 mm	— backwards	0 mm
at the side0 mm• for grounded parts0 mm forwards0 mm backwards0 mm upwards50 mm at the side3.5 mm downwards50 mm	— upwards	50 mm
• for grounded parts       — forwards     0 mm       — backwards     0 mm       — upwards     50 mm       — at the side     3.5 mm       — downwards     50 mm	— downwards	50 mm
- forwards     0 mm       - backwards     0 mm       - upwards     50 mm       - at the side     3.5 mm       - downwards     50 mm		0 mm
— backwards0 mm— upwards50 mm— at the side3.5 mm— downwards50 mm	<ul> <li>for grounded parts</li> </ul>	
upwards50 mm at the side3.5 mm downwards50 mm	— forwards	0 mm
- at the side     3.5 mm       - downwards     50 mm	— backwards	0 mm
- downwards 50 mm	•	
		3.5 mm
Ambient conditions	deurserde	50 mm

installation altitude at height above sea level maximum	4 000 m; For derating see manual
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
environmental category during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
relative humidity during operation	10 95 %
air pressure according to SN 31205	900 1 060 hPa
Communication/ Protocol	
protocol is supported	
PROFINET IO protocol	No
PROFIsafe protocol	No
product function bus communication	No
protocol is supported AS-Interface protocol	No
Connections/ Terminals	
type of electrical connection	screw-type terminals for main circuit, spring-loaded terminals (push-in) for
	control circuit
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals (push-in)
wire length for motor unshielded maximum	100 m
type of connectable conductor cross-sections for main contacts	
• solid	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0,5 4 mm²), 2x (0,5 1,5 mm²)
connectable conductor cross-section for main contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 1.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 1.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0,5 1,0 mm²), 2x (0,5 1,0 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	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
<ul> <li>for auxiliary contacts</li> </ul>	20 16
UL/CSA ratings	
operational current at AC at 480 V according to UL 508	0.5 A
Certificates/ approvals	
General Product Approval	EMC For use in hazard- ous locations
Confirmation	
લ્લ ભા	
ccc UL	RCM ATEX
Functional	
Safety/Safety of Ma- Declaration of Conformity chinery	other
Type Examination Cer-	Confirmation
Type Examination Cer- tificate (C)	
	ר
EG-Konf.	1

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=3RM1101-3AA04

Cax online generator

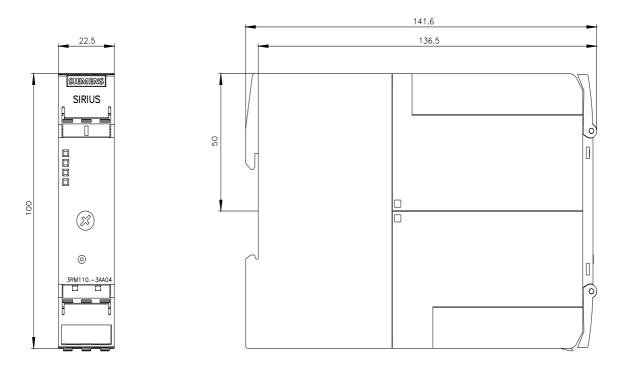
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1101-3AA04

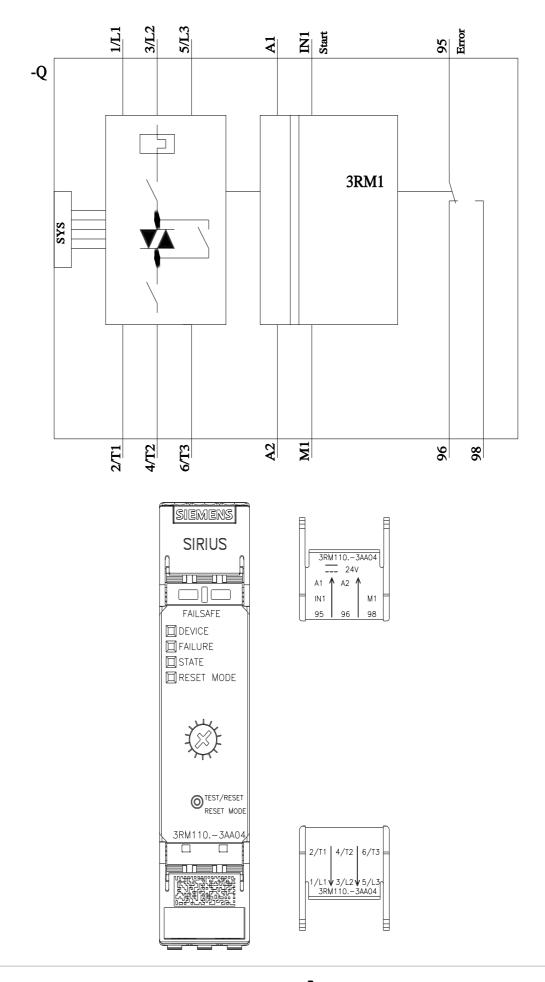
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RM1101-3AA04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RM1101-3AA04&lang=en





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