## SIEMENS

## Data sheet

## 3RM1101-1AA14



Fail-safe direct starter, 3RM1, 500 V, 0 - 0.12 kW, 0.1 - 0.5 A, 110-230 V AC, screw 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
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>for power supply reverse polarity protection</li> </ul>	Yes
suitability for operation device connector 3ZY12	No
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>	3.22 W
insulation voltage rated value	500 V
overvoltage category	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
<ul> <li>between main and auxiliary circuit</li> </ul>	500 V
<ul> <li>between control and auxiliary circuit</li> </ul>	250 V
shock resistance	6g / 11 ms
vibration resistance	1 6 Hz, 15 mm; 20 m/s², 500 Hz
operating frequency maximum	1 1/s
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.323 kg
product function	
direct start	Yes
reverse starting	No
product function short circuit protection	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	3 kV / 5 kHz
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	4 kV signal lines 2 kV
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to high-frequency radiation according to IEC 61000-</li> </ul>	10 V

4-6	
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-3	6 kV contact discharge / 8 kV air discharge
conducted HF interference emissions according to CISPR11	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
field-bound HF interference emission according to CISPR11	Class B for domestic, business and commercial environments; Class A for industrial environments at 110 V DC
Safety related data	
safe state	Load circuit open
function test interval maximum	1a
diagnostics test interval by internal test function maximum	600 s
stop category according to IEC 60204-1	0
B10d value	1 300 000
failure rate [FIT] at rate of recognizable hazardous failures $(\lambda dd)$	1 400 FIT
failure rate [FIT] at rate of non-recognizable hazardous failures ( $\lambda$ du)	16 FIT
average diagnostic coverage level (DCavg)	99 %
MTTFd	75 a
IEC 62061	
SIL Claim Limit (subsystem) according to EN 62061	SILCL 3
PFHD with high demand rate according to IEC 62061	2E-8 1/h
ISO 13849	
performance level (PL) according to EN ISO 13849-1	PL e
category according to EN ISO 13849-1	4
IEC 61508	
Safety Integrity Level (SIL)	
according to IEC 61508	3
safety device type according to IEC 61508-2	Туре В
PFDavg with low demand rate according to IEC 61508	1.75E-5
Safe failure fraction (SFF)	99.4 % 1
hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to IEC	20 a
61508	200
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529 ATEX	finger-safe
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL2
PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-8 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.0005
hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to	0 3a
IEC 61508 relating to ATEX certificate of suitability according to ATEX directive 2014/34/EU	BVS 12 ATEX F 002 X
type of protection according to ATEX directive 2014/34/EU	ll (2)G [Ex e] [Ex d] [Ex px], ll (2)D [Ex t] [Ex p], l (M2) [Ex d]
Main circuit	לבי בי רבי או רבי או יי או היא רבי או רבי או יי או
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	
<ul> <li>at AC at 400 V rated value</li> </ul>	0.5 A

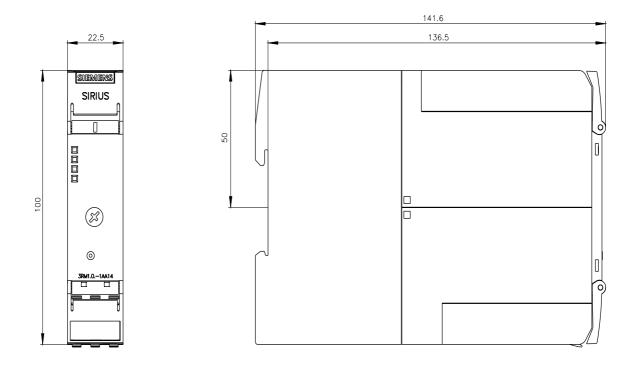
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.5 A
<ul> <li>at AC-53a at 400 V at ambient temperature 40 °C rated value</li> </ul>	0.5 A
ampacity when starting maximum	4 A
operating power for 3-phase motors at 400 V at 50 Hz	0 0.12 kW
Inputs/ Outputs	
input voltage at digital input	
<ul> <li>at DC rated value</li> </ul>	110 V
<ul> <li>with signal &lt;0&gt; at DC</li> </ul>	0 40 V
● for signal <1> at DC	79 121
input voltage at digital input	
<ul> <li>at AC rated value</li> </ul>	110 V
<ul> <li>with signal &lt;0&gt; at AC</li> </ul>	0 40 V
• for signal <1> at AC	93 253 V
input current at digital input	
● for signal <1> at DC	1.5 mA
● with signal <0> at DC	0.25 mA
input current at digital input with signal <0> at AC	
• at 110 V	0.2 mA
• at 230 V	0.4 mA
input current at digital input for signal <1> at AC	
• at 110 V	1.1 mA
• at 230 V	2.3 mA
number of CO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15 at 230 V	3 A
maximum	
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	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	110 230 V
• at 60 Hz rated value	110 230 V
relative negative tolerance of the control supply voltage at	15 %
AC at 60 Hz	
relative positive tolerance of the control elipply voltage at	10 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	
AC at 60 Hz	
AC at 60 Hz control supply voltage 1 at AC	110 230 V
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz	110 230 V 110 230 V
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz	110 230 V 110 230 V
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency	110 230 V
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value	110 230 V 50 Hz
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value	110 230 V 50 Hz 60 Hz
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value	110 230 V 50 Hz
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at	110 230 V 50 Hz 60 Hz
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC	110 230 V 50 Hz 60 Hz 15 % 10 %
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value	110 230 V 50 Hz 60 Hz 15 %
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at	110 230 V 50 Hz 60 Hz 15 % 10 %
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85 1.1
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85 1.1
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85 1.1
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85 1.1
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85 1.1 0.85 1.1
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 60 Hz • initial value	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85 1.1 0.85 1.1
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 60 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 60 Hz	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85 1.1 0.85 1.1
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 60 Hz • initial value • full-scale value	110 230 V 50 Hz 60 Hz 15 % 10 % 110 V 0.85 1.1 0.85 1.1
AC at 60 Hz control supply voltage 1 at AC • at 50 Hz • at 60 Hz control supply voltage frequency • 1 rated value • 2 rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC • initial value • full-scale value operating range factor control supply voltage rated value at AC at 50 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 60 Hz • initial value • full-scale value operating range factor control supply voltage rated value at AC at 60 Hz	110 230 V 50 Hz 60 Hz 15 % 10 % 10 V 0.85 1.1 0.85 1.1 0.85 1.1 8 mA

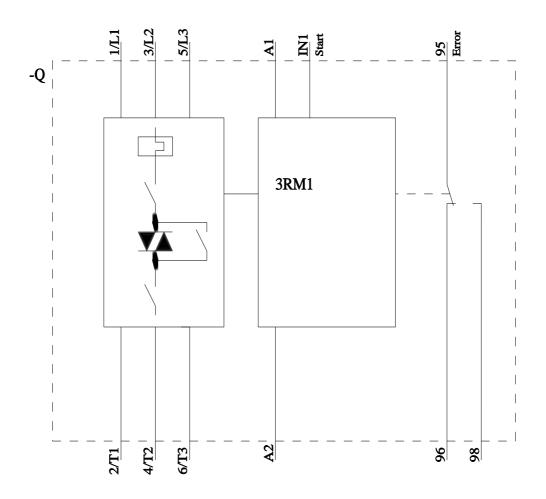
a at 220 V/when awitaking an	2E m/
• at 230 V when switching on	25 mA
at 110 V during operation	25 mA
at 230 V during operation	14 mA
control current at DC	
<ul> <li>in standby mode of operation</li> </ul>	4 mA
during operation	30 mA
inrush current peak	
• at AC at 110 V	1 200 mA
• at AC at 230 V	2 900 mA
<ul> <li>at AC at 110 V at switching on of motor</li> </ul>	1 200 mA
at AC at 230 V at switching on of motor	2 900 mA
duration of inrush current peak	
• at AC at 110 V	1 ms
• at AC at 230 V	1 ms
<ul> <li>at AC at 110 V at switching on of motor</li> </ul>	1 ms
at AC at 230 V at switching on of motor	1 ms
power loss [W] in auxiliary and control circuit	
<ul> <li>in switching state OFF</li> </ul>	
— with bypass circuit	1.4 W
<ul> <li>in switching state ON</li> </ul>	
— with bypass circuit	3.22 W
Response times	
ON-delay time	90 120 ms
OFF-delay time	60 90 ms
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	0.5 A
• at 50 °C rated value	0.5 A
• at 55 °C rated value	0.5 A
• at 60 °C rated value	0.5 A
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal, standing (observe derating)
mounting position	vortioal, nonzontal, otaliang (obcorve derating)
fastening method	screw and snap-on mounting onto 35 mm DIN rail
fastening method	screw and snap-on mounting onto 35 mm DIN rail
fastening method height	screw and snap-on mounting onto 35 mm DIN rail 100 mm
fastening method height width	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm
fastening method height width depth	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm
fastening method height width depth required spacing	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — backwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — backwards         — upwards         — a the side         • for grounded parts         — forwards         — upwards         — upwards         — upwards         — upwards         — upwards         — upwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 0 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - upwards         - at the side         • for grounded parts         - at the side         - at the side         - at the side	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 3.5 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - at the side         - forwards         - at the side         - forwards         - at the side         - forwards         - backwards         - backwards         - at the side         - at the side         - at the side         - at the side         - downwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 3.5 mm
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         - backwards         - upwards         - backwards         - upwards         - at the side         - at the side         - at the side         - at the side         - downwards         - At the side         - downwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 50 mm 50 mm 50 mm 50 mm 50 mm 50 mm 50 mm 50 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - upwards         - forwards         - downwards         - at the side         - at the side         - downwards         - at the side         - downwards         Mitted the side         - mounded parts         - forwards         - wards         - upwards         - at the side         - downwards         Mitted the side         - mounded the side         - downwards	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 50 mm 50 mm 50 mm 50 mm 50 mm 50 mm 50 mm 50 mm
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 grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 0 mm 10
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 grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         - at the side         - downwards         Mittent conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation	screw and snap-on mounting onto 35 mm DIN rail           100 mm           22.5 mm           141.6 mm           0 mm           0 mm           50 mm           50 mm           0 mm           0 mm           50 mm           4 000 m; For derating see manual           -25 +60 °C
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 grounded parts         - forwards         - backwards         - upwards         - at the side         - at the side         - downwards         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 0 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 3.5 mm 50 mm 50 mm 3.5 mm 50
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 grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage         • during transport	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 3.5 mm 50 mm 3.5 mm 50 mm 4 000 m; For derating see manual -25 +60 °C -40 +70 °C -40 +70 °C
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 grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage         • during transport         environmental category during operation according to IEC	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 10 mm
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 grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage         • during transport         environmental category during operation according to IEC 60721	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 20 mm 50 mm
fastening method         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - backwards         - backwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - backwards         - upwards         - backwards         - upwards         - at the side         - downwards         - at the side         - downwards         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage         • during transport         environmental category during operation according to IEC 60721         relative humidity during operation	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 10 mm
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 grounded parts         - forwards         - backwards         - upwards         - at the side         - downwards         Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage         • during transport         environmental category during operation according to IEC 60721         relative humidity during operation         air pressure according to SN 31205	screw and snap-on mounting onto 35 mm DIN rail 100 mm 22.5 mm 141.6 mm 0 mm 0 mm 0 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 10 mm

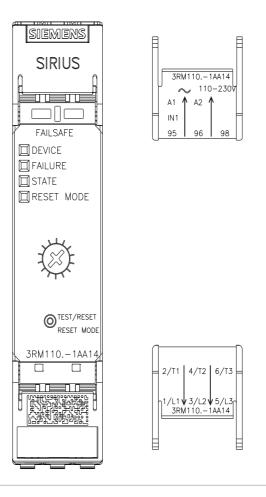
PROFINET IO protocol     PROFIsafe protocol		No				
product function bus		No				
	AS-Interface protocol	No				
onnections/ Termina						
ype of electrical cor		SC	ew-type terminals for main	circuit. screw-type termi	nals for control circuit	
for main current circuit			screw-type terminals for main circuit, screw-type terminals for control circuit screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>			screw-type terminals			
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 $(0,5 \dots 4 \text{ mm}^2)$ , 2x $(0,5 \dots 2,5 \text{ mm}^2)$ 1x $(0,5 \dots 4 \text{ mm}^2)$ , 2x $(0,5 \dots 1,5 \text{ mm}^2)$			
-	tor cross-section for ma		(0,0 ), _/(0,0 )	,0 )		
<ul> <li>solid or strande</li> </ul>			5 4 mm²			
	with core end processing		5 4 mm²			
	tor cross-section for aux		· + mm			
<ul> <li>solid or strande</li> </ul>			5 2.5 mm²			
	with core end processing		5 2.5 mm²			
-	conductor cross-section		2.5 mm			
<ul> <li>for auxiliary cor</li> </ul>		.5				
• for auxiliary cor — solid	liacis	1.	$(0.5, 0.5, mm^2)$ $2x$ (1.0	$1 \in mm^2$		
	ndad with care and process		$(0,5 \dots 2,5 \text{ mm}^2), 2x (1,0 \dots (0,5 \dots 2,5 \text{ mm}^2)), 2x (0,5 \dots 2,5 \text{ mm}^2)$			
-	nded with core end proces s for auxiliary contacts	•	1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1 mm <sup>2</sup> )			
	,		(20 14), 2x (18 16)			
section	led connectable conduct	orcross				
<ul> <li>for main contact</li> </ul>	ts	20	12			
<ul> <li>for auxiliary cor</li> </ul>			14			
/CSA ratings						
	at AC at 480 V according	to UL 508 0.5	i A			
provals Certificates	-					
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General Product Ap	proval					
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