SIEMENS

Data sheet 3RM1301-2AA04



Fail-safe reversing starter, 3RM1, 500 V, 0 - 0.12 kW, 0.1 - 0.5 A, 24 V DC, spring-type terminals

product brand name	SIRIUS
product category	Motor starter
product designation	Failsafe reversing starters
design of the product	With electronic overload protection and safety-related disconnection
product type designation	3RM1
General technical data	
trip class	CLASS 10A
equipment variant according to IEC 60947-4-2	3
product function	fail-safe reversing 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 safe isolation	
 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 (switching cycles) typical	15 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
product function	
direct start	No
reverse starting	Yes
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	G W/ contact discharge / 9 W/ air discharge
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
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	е
category according to EN ISO 13849-1	4
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	99.4 %
average diagnostic coverage level (DCavg)	99 %
diagnostics test interval by internal test function maximum	600 s
function test interval maximum	1 y
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	0.00000002 1/h
PFDavg with low demand rate according to IEC 61508	0.000018
MTTFd	75 y
hardware fault tolerance according to IEC 61508	1
T1 value for proof test interval or service life according to IEC 61508	20 y
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
OFF-delay time with safety-related request	
 when switched off via control inputs maximum 	43 ms
 when switched off via supply voltage maximum 	120 ms
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	0.00000005 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL2
T1 value for proof test interval or service life	3 y
according to IEC 61508 relating to ATEX	
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
at AC-53a at 400 V at ambient temperature 40 °C rated value	0.5 A
ampacity when starting maximum	4 A

apparating natural for 2 whose material -4 400 M -4 50 M	0 0 12 kW
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
number of CO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15 at 230 V maximum	3 A
operational current of auxiliary contacts at DC-13 at 24 V maximum	1 A
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	19.2 30 V
relative negative tolerance of the control supply voltage at DC	20 %
relative positive tolerance of the control supply voltage at DC	25 %
control supply voltage 1 at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.8
• full-scale value	1.25
control current at DC	
• in standby mode of operation	13 mA
when switching on	150 mA
during operation	57 mA
duration of inrush current peak at 24 V	85 ms
power loss [W] in auxiliary and control circuit	
• in switching state OFF	
— with bypass circuit	0.35 W
• in switching state ON	
— with bypass circuit	1.37 W
Response times	
ON-delay time	65 76 ms
OFF-delay time	30 43 ms
Power Electronics	
operational current	
• at 40 °C rated value	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	0.071
	vertical harizontal atanding (absorbed desating)
mounting position	vertical, horizontal, standing (observe derating)
fastening method height	screw and snap-on mounting onto 35 mm standard mounting rail 100 mm
width	22.5 mm
depth	141.6 mm
<u> </u>	171.0
required spacing	
with side-by-side mountingforwards	0 mm
	0 mm
— backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— backwards	0 mm

- at the side	— upwards	50 mm
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- during storage - during transport - during trans	•	-25 +60 °C
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according to CSA rated value 400 V Certificates/ approvals		
Certificates/ approvals		
		400 V
General Product Approval EMC	Certificates/ approvals	
	General Product Approval	EMC



Confirmation









For use in hazardous locations Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

other

Railway



Type Examination Certificate



Type Test Certificates/Test Report

Confirmation

Special Test Certificate

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RM1301-2AA04

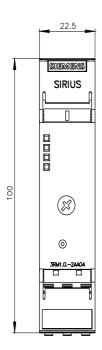
Cax online generator

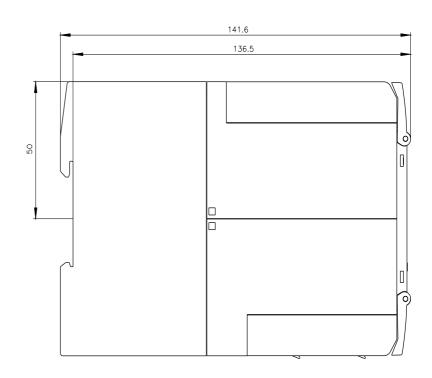
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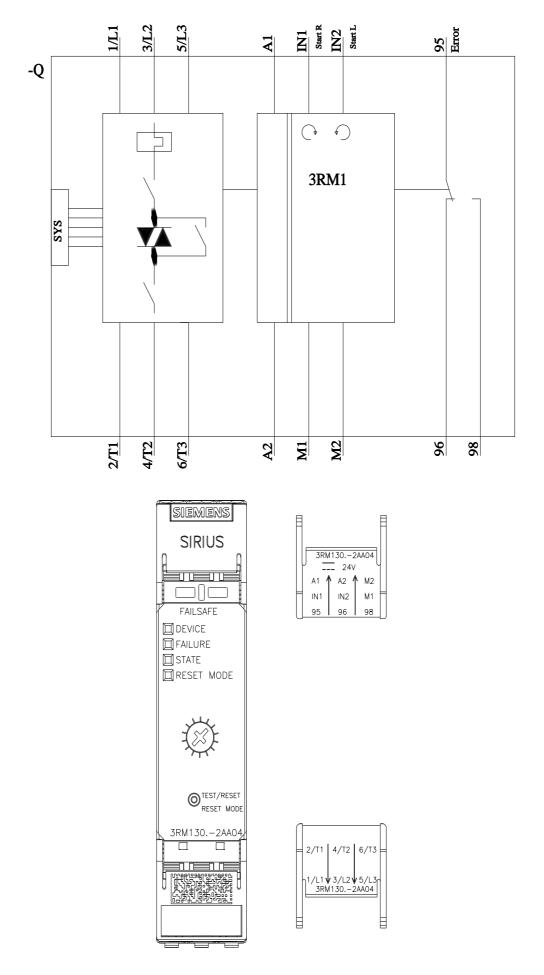
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RM1301-2AA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1301-2AA04&lang=en







last modified: 11/3/2021 🖸