SIEMENS

Data sheet 3RM1001-1AA04



Direct starter, 3RM1, 500 V, 0 - 0.12 kW, 0.1 - 0.5 A, 24 V DC, screw terminals

product brand name	SIRIUS
product category	Motor starter
product designation	Direct-on-line starter
design of the product	with electronic overload protection
product type designation	3RM1
General technical data	OTAWT
equipment variant according to IEC 60947-4-2	3
product function	Direct-on-line starter
intrinsic device protection	Yes
for power supply reverse polarity protection	No
suitability for operation device connector 3ZY12	Yes
power loss [W] for rated value of the current	165
at AC in hot operating state per pole	0.01 W
without load current share typical	1.68 W
insulation voltage rated value	500 V
overvoltage category	
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
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 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5
Weight	0.315 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	
 due to burst according to IEC 61000-4-4 	3 kV / 5 kHz
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	1 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	4 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
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Main circuit	
number of poles for main current circuit	3
design of the switching contact	Hybrid
design of the switching contact as NO contact for signaling function	OUT, electronic, 24 V DC, 15 mA
adjustable current response value current of the current- dependent overload release	0.1 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
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	11 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	25.0%
relative positive tolerance of the control supply voltage at DC	24 \
control supply voltage 1 at DC rated value	24 V
operating range factor control supply voltage rated value at DC	0.8
• initial value	0.8
full-scale value control current at DC	1.25
	25 mA
in standby mode of operation during operation	70 mA
during operation incush current peak	I V IIIA
inrush current peak • at 24 V	0.29 At values at 25 °C
• at 24 V • at DC at 24 V	0.28 A; values at 25 °C 300 mA
	130 mA
at DC at 24 V at switching on of motor duration of inrush current peak	130 111/4
uuration ot inrusn cuffent deak	

* all 24 V at switching and motor of motor 2 alms * all 25 V at switching and control circuit * in switching state OFF		
## DCC at 24 V at switching on of motor power loss [VI] in auxillary and control circuit ## in switching state OF ## with bypass octoral ## in switching state OF ## with bypass octoral ## In switching state OF ## with bypass octoral ## In switching state OF ## with bypass octoral ## In switching state OF ## OF ##	• at 24 V	85 ms
power lose (W) in auxiliary and control circuit in switching state OR - with bypass circuit in witching state ON - with bypass circuit in witching state ON - with bypass circuit Response times OFF-daily time OF-daily time		
In switching state ON - with typose circuit Response broads ON delay time ON delay time ON delay time OFF-delay time O		20 ms
- with typass circuit In switching state ON - with typass circuit ON-delay time OF-delay time OF-delay time OF-delay time OS 90 ms OF-delay time OF-delay		
Instituting state oN	_	
	•	0.6 W
Response limes	_	
ON-fedelay time 66 90 ms Power flictronics operational current • at 40 °C rated value • at 60 °C rated valu	• •	1.68 W
Content Electronics		
power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value mounting position fastening method screw and snap-on mounting ofto 35 mm DIN rail regular value width • 22.5 mm depth required spacing • with side-by-side mounting • one of side of	•	
operational current • at 40°C rated value • at 55°C rated value • with 100°C mm width • 22.5 mm depth • with side by-side mounting • at 50°C mm • at 10°C rated value • at 10°		60 90 ms
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- downwards - at the side of or grounded parts - forwards - backwards - backwards - upwards - at the side of omm - at the side - downwards - at the side - at the side - downwards - at the side - a		
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 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	1x (0,5 2,5 mm²), 2x (1,0 1,5 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1 mm²)
 for AWG cables for auxiliary contacts 	1x (20 14), 2x (18 16)
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
 for auxiliary contacts 	20 14
UL/CSA ratings	
operational current at AC at 480 V according to UL 508	0.5 A
Approvals Certificates	

General Product Approval





Confirmation







EMV **Test Certificates** Railway **Environment** other



Type Test Certificates/Test Report

Confirmation

Special Test Certific-<u>ate</u>

Environmental Confirmations

Further information

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=3RM1001-1AA04

Cax online generator

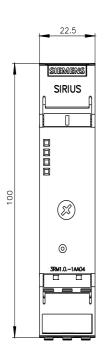
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1001-1AA04

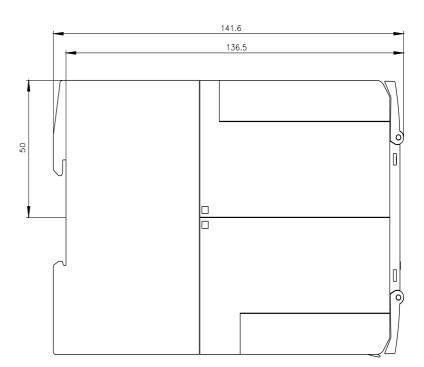
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

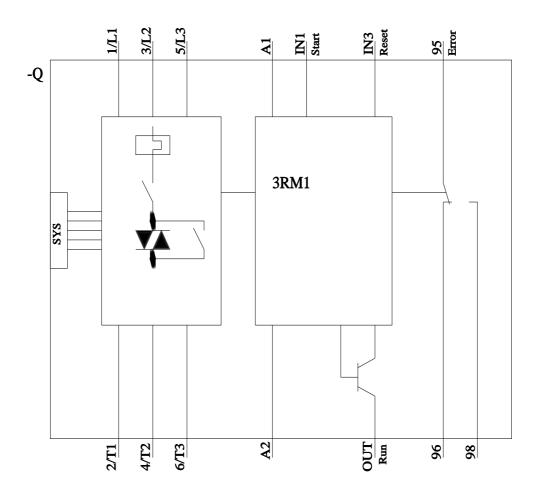
https://support.industry.siemens.com/cs/ww/en/ps/3RM1001-1AA04

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

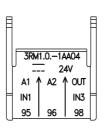
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1001-1AA04&lang=en

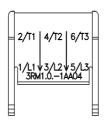












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