SIEMENS

Data sheet

3RM1001-2AA14



Direct starter, 3RM1, 500 V, 0 - 0.12 kW, 0.1 - 0.5 A, 110-230 V AC, spring-type 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				
trip class	CLASS 10A			
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	No			
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	30 000 000			
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 	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 JEC (4000.4.2	(W/ contact discharge / 0 W/ cir discharge		
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge Class B for domestic, business and commercial environments; Class A		
conducted HF interference emissions according to CISPR11	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			
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	OUT, electronic, 24 V DC, 15 mA		
signaling function			
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 	110 V		
 with signal <0> at DC 	0 40 V		
● for signal <1> at DC	79 121		
input voltage at digital input			
 at AC rated value 	110 V		
• with signal <0> at AC	0 40 V		
• for signal <1> at AC	93 253 V		
input current at digital input	4.5 m A		
• for signal <1> at DC	1.5 mA 0.25 mA		
• with signal <0> at DC input current at digital input with signal <0> at AC	0.20 III/A		
• 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 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	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	15 %		
voltage at AC at 60 Hz			

relative positive tolerance of the control supply	10 %			
voltage at AC at 60 Hz				
control supply voltage 1 at AC				
• at 50 Hz	110 230 V			
• at 60 Hz	110 230 V			
control supply voltage frequency				
• 1 rated value	50 Hz			
2 rated value	60 Hz			
relative negative tolerance of the control supply voltage at DC	15 %			
relative positive tolerance of the control supply voltage at DC	10 %			
control supply voltage 1 at DC rated value	110 V			
operating range factor control supply voltage rated				
value at DC				
• initial value	0.85			
• full-scale value	1.1			
operating range factor control supply voltage rated value at AC at 50 Hz				
• initial value	0.85			
• full-scale value	1.1			
operating range factor control supply voltage rated value at AC at 60 Hz				
• initial value	0.85			
full-scale value	1.1			
control current at AC				
 at 110 V in standby mode of operation 	16 mA			
 at 230 V in standby mode of operation 	9 mA			
• at 110 V when switching on	55 mA			
• at 230 V when switching on	33 mA			
• at 110 V during operation	36 mA			
• at 230 V during operation	22 mA			
control current at DC				
 in standby mode of operation 	6 mA			
when switching on	15 mA			
 during operation 	30 mA			
inrush current peak				
• at AC at 110 V	1 200 mA			
• at AC at 230 V	2 900 mA			
duration of inrush current peak				
• at AC at 110 V	1 ms			
• at AC at 230 V	1 ms			
power loss [W] in auxiliary and control circuit				
 in switching state OFF 				
— with bypass circuit	2.1 W			
 in switching state ON 				
— with bypass circuit	5.06 W			
Response times				
ON-delay time	60 90 ms			
OFF-delay time	60 90 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				
mounting position	vertical, horizontal, standing (observe derating)			
fastening method				
nationing method	screw and snap-on mounting onto 35 mm standard mounting rail			
height	screw and snap-on mounting onto 35 mm standard mounting rail 100 mm 22.5 mm			

depth	141.6 mm				
required spacing					
with side-by-side mounting					
— forwards	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				
— upwards	50 mm				
— at the side	3.5 mm				
— downwards	50 mm				
Ambient conditions					
installation altitude at height above sea level maximum	4 000 m; For derating see manual				
ambient temperature					
 during operation 	-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					
Connections/ Terminals type of electrical connection	spring-loaded terminals (push-in) for main circuit, spring-loaded				
type of electrical connection	terminals (push-in) for control circuit				
type of electrical connection for main current circuit 	terminals (push-in) for control circuit spring-loaded terminals (push-in)				
 type of electrical connection for main current circuit for auxiliary and control circuit 	terminals (push-in) for control circuit				
type of electrical connection for main current circuit 	terminals (push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in)				
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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	terminals (push-in) for control circuit spring-loaded terminals (push-in) spring-loaded terminals (push-in) 100 m				
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 for auxiliary con 	ntacts		20 16			
UL/CSA ratings						
 operating voltage at AC according to UL rated value according to CSA rated value 		480 V 400 V				
Certificates/ approvals						
General Product A	oproval				EMC	
(Sp)		<u>Confirmation</u>		EHC	RCM	
Declaration of Conformity	Test Certificates	other	Railway			
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmation</u>	n <u>Special Test Certific-</u> ate			

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=3RM1001-2AA14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RM1001-2AA14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RM1001-2AA14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1001-2AA14&lang=en

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