SIEMENS

Data sheet

3RM1007-2AA14



direct-on-line starter, 3RM1, 500 V, 0.55 - 3 kW, 1.6 - 7 A, 110-230 V AC, spring-loaded terminal (push-in)

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			
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		
power loss [W] for rated value of the current			
 at AC in hot operating state per pole 	1.13 W		
 without load current share typical 	5.06 W		
insulation voltage rated value	500 V		
overvoltage category	III		
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		
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			
 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		

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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 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
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	OUT, electronic, 24 V DC, 15 mA
function adjustable current response value current of the current- dependent overload release	1.6 7 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	7 A
 at AC-3 at 400 V rated value 	7 A
 at AC-53a at 400 V at ambient temperature 40 °C rated value 	7 A
ampacity when starting maximum	56 A
operating power for 3-phase motors at 400 V at 50 Hz	0.55 3 kW
derating temperature	40 °C
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	
 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 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	440 000.14
• 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 AC at 60 Hz	15 %
relative positive tolerance of the control supply voltage at	10 %

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	
 during operation 	30 mA	
inrush current peak		
• at AC at 110 V	1 200 mA	
• at AC at 230 V	2 900 mA	
 at AC at 110 V at switching on of motor 	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	
 at AC at 110 V at switching on of motor 	1 ms	
 at AC at 230 V at switching on of motor 	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	7 A	
• at 50 °C rated value	6.1 A	
• at 55 °C rated value	5.2 A	
• at 60 °C rated value	4.6 A	
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	

required spacing • with side by side mounting - forwards 0 mm - bookwards 0 mm - upwards 60 mm - ownards 0 mm - downards 0 max - d	depth	141.6 mm
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for auxiliary contacts 20 16 UL/CSA ratings yielded mechanical performance [hp]		
UL/CSA ratings yielded mechanical performance [hp]		20 12
yielded mechanical performance [hp]	 for main contacts 	
		20 16
for single-phase AC motor		20 16
	for auxiliary contacts UL/CSA ratings	20 16

— at 110/	/120 V rated value		0.25 hp	
— at 230	V rated value		0.5 hp	
• for 3-phase	AC motor			
— at 200/	208 V rated value		1 hp	
— at 220/	/230 V rated value		1.5 hp	
— at 460/	/480 V rated value		3 hp	
operational curre	nt at AC at 480 V according	to UL 508	6.1 A	
Certificates/ approv	vals			
General Product	Approval			
UK CA	<u>Confirmation</u>		CE EG-Konf.	EAC
EMV	Test Certificates	other	Railway	
RCM	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n <u>Special Test Certific-</u> <u>ate</u>	
	ided to exit the Russian mar		wn-russian-business	

Siemens is working on the renewal of the current EAC certificates.

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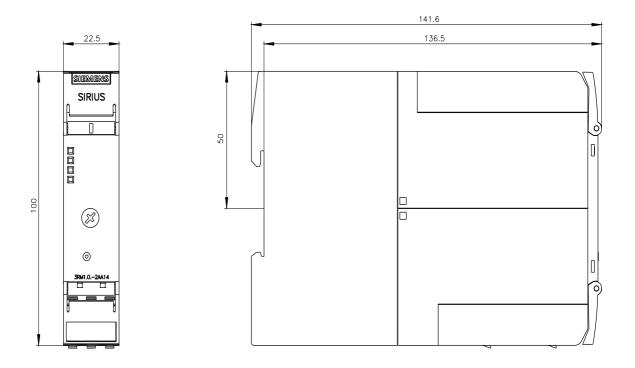
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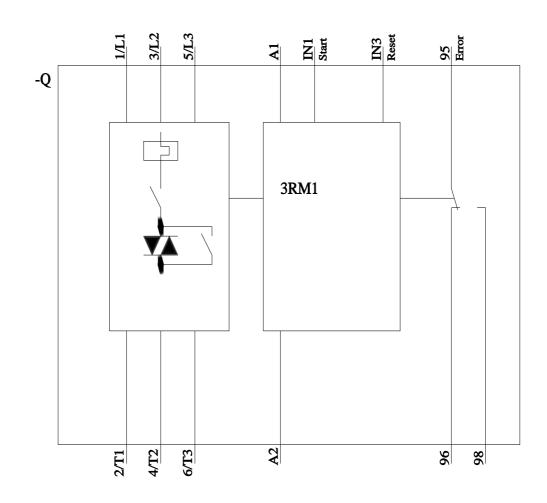
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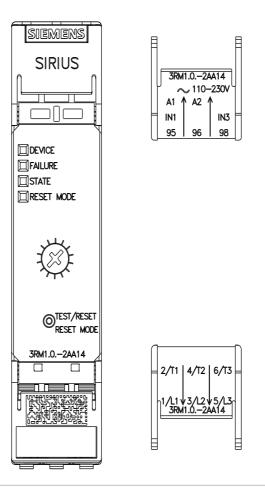
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