SIEMENS

Data sheet 3RM1007-1AA04



Direct starter, 3RM1, 500 V, 0.55 - 3 kW, 1.6 - 7 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			
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			
 at AC in hot operating state per pole 	1.13 W		
without load current share typical	1.68 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-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 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		

field based interference according to IEC 61000 4.2	10.\//m		
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	10 V/m		
conducted HF interference emissions according to CISPR11	4 kV contact discharge / 8 kV air discharge 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			
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe		
Main circuit	inigol date		
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	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	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	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	25 mA		
during operation	70 mA		
inrush current peak			
• at 24 V	0.28 A; values at 25 °C		
• at DC at 24 V	300 mA		
at DC at 24 V at switching on of motor	130 mA		
duration of inrush current peak			

* 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 ## SEPORT STATE S	• 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		80 ms	
In switching state ON - with typase circuit Response broads ON delay time OFF-delay time Fower Electronics operational current - st 40 °C rated value - st 55 °C rated value - s		20 ms	
- with typasa circuit - in switching state ON - with typasa circuit - No Meday time - 60 90 ms - OPF-delay time - 60 90 ms - OPF-delay time - 60 90 ms - OPF-delay time - 1			
In switching state oN	•		
	• •	0.6 W	
Response limes	_		
ON-fedelay time 66 90 ms Power flictronics operational current • at 60 °C raded value 6.1 A • at 60 °C raded value 5.2 A • at 60 °C raded value 7.2 A • at 60 °C raded value 7.2 A • at 60 °C raded value 7.2 A • at 60 °C raded value 8.3 A • at 60 °C raded value 9.3 A • at 6	• •	1.68 W	
Content Electronics			
power Electronics operational current • at 60 °C rated value • at 6	•		
operational current • at 40°C rated value • at 55°C rated value • at 60°C rated value • vertical, hortzonial, standing (observe derating) rated value required spacing • with side by-side mounting • required spacing • with side by-side mounting • onm •		60 90 ms	
at 40 °C rated value at 50 °C rated value 5.2 A 5.3 E 5.3 E 5.3 E 5.4 A 5.5 E 5.2 A 5.5 E			
at 50 °C rated value at 55 °C rated value at 55 °C rated value 4.6 A Installation mounting dimensions mounting position series and snap-on mounting onto 35 mm DIN rail height 100 mm width 2.2.5 mm depth 141.6 mm required spacing with side-by-side mounting — forwards — backwards — backwards — downwards — at the side — on mm — downwards — the side — on mm — downwards — the side — on mm — downwards — at the side — on mm — downwards — at the side — on mm — downwards — ownwards	•		
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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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• finely stranded with core end processing 1x (0,5 4 mm²), 2x (0,5 1,5 mm²)	•	1x (0.5 4 mm²), 2x (0,5 2.5 mm²)	

 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 mm ²				
 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				
JL/CSA ratings					
yielded mechanical performance [hp]					
 for single-phase AC motor 					
— 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				
	0.4.4				
operational current at AC at 480 V according to UL 508	6.1 A				
Certificates/ approvals	6.1 A				

Confirmation

General Product Approval









EMC



formity

Declaration of Conformity

Test Certificates other Railway



Type Test Certificates/Test Report

Confirmation

Special Test Certificate

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

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

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RM1007-1AA04

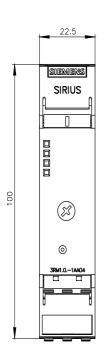
Cax online generator

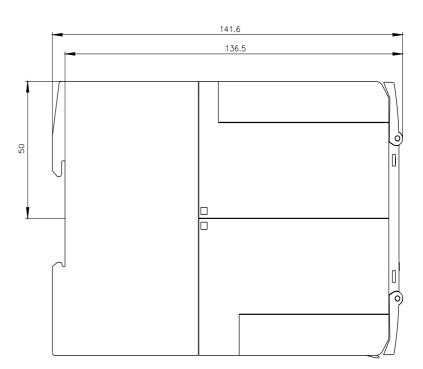
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RM1007-1AA04}$

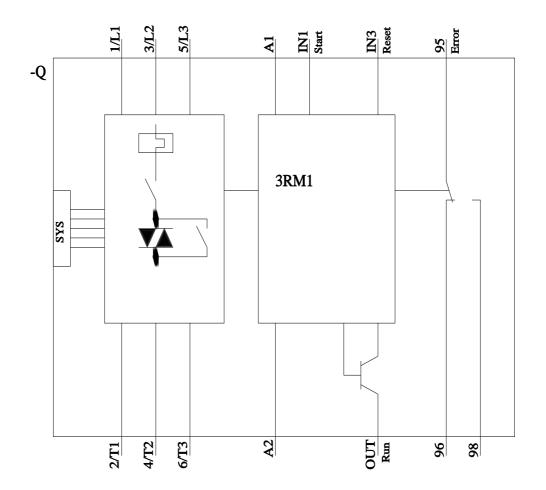
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RM1007-1AA04

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

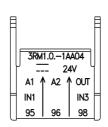
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RM1007-1AA04&lang=en

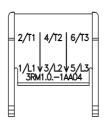












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