SIEMENS

Data sheet

3RK1308-0CC00-0CP0



Fail-safe direct-on-line starter High Feature; Electronic switching; Electronic overload protection up to 1.1 kW / 400 V; Adjustment range 0.9 .. 3 A; PROFlenergy; Option: 3DI/LC module

product of safe (page) SIMATIC product of signation Direct-on-line statter product of signation ET 2005P convarial technical data		
product designation Direct-on-line starter product type designation ET 2005P convariat echnical data	•	SIMATIC
product type designation ET 200SP General technical data		
Central technical data 3 equipment variant according to IEC 60947-4-2 3 product function Fail-safe direct-on-line starter • on-site operation Yes • intrinsic device protection Yes • for power supply reverse polarity protection Yes insulation voltage rated value 500 V degree of pollution 2 overvoltage category III surge voltage resistance rated value 6 k/V = between main and auxiliary circuit 500 V shock resistance 10 m k vibration resistance 11 ms vibration resistance 11 ms vibration resistance 30 000 00 type of assignment 11 utilization category 11 utilization category 94/15/2016 product function 94/15/2016 product function Yes • according to IEC 60947-4-2 Ac-53a: 3 A: (8-0,7: 70-32) reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 94/15/2016 product function Yes • alt 000 V rated value 55 kA • at 500 V rated value 55 kA • at 500 V rated value 55 kA	product designation	
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product function Fail-safe direct-on-line starter • on-site operation Yes • intrinsic device protection Yes • emote firmware update Yes • for power supply reverse polarity protection Yes • for power supply reverse polarity protection Yes • for power supply reverse polarity protection Yes • degree of polution 2 overvoltage category III surger voltage resistance rated value 6 kV maximum permissible voltage for protective separation • between main and auxiliary circuit • between main and auxiliary circuit 500 V shock resistance 6g / 11 ms vibration resistance 15 mm to 6 Hz; 2g to 500 Hz operating frequency maximum 1 1/s mechanical service life (operating cycles) of the main contacts 30 000 000 typical type of assignment 1 utilization category 4 C-53a: 3 A: (8-0,7: 70-32) • according to IEC 60947-4-2 AC-53a: 3 A: (8-0,7: 70-32) reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 04/15/2016 product function Yes </th <th>General technical data</th> <th></th>	General technical data	
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• at 400 V rated value 55 kA	 at 500 V according to UL 60947 rated value 	100 kA
• at 500 V rated value 55 kA	• at 400 V rated value	55 kA
	• at 500 V rated value	55 kA

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
 due to conductor-earth surge according to IEC 61000-4-5 	4 kV
due to conductor-conductor surge according to IEC	2 kV
61000-4-5	
 due to high-frequency radiation according to IEC 61000- 4-6 	Class A
field-based interference according to IEC 61000-4-3	20 V/m
electrostatic discharge according to IEC 61000-4-2	8 kV air discharge
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11	Class A for industrial environment
Safety related data	
safety device type according to IEC 61508-2	Туре В
safe state	Load circuit open
B10d value	3 400 000
Safety Integrity Level (SIL) according to IEC 61508	3
performance level (PL) according to EN ISO 13849-1	e
category according to EN ISO 13849-1	4
stop category according to EN 60204-1	0
diagnostics test interval by internal test function maximum	600 s
PFH according to IEC 61508 relating to SIL	3.6E-9 1/h
PFDavg with low demand rate according to IEC 61508	4.1E-7
hardware fault tolerance according to IEC 61508	1
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
adjustable current response value current of the current- dependent overload release	0.9 3 A
minimum load [%]	50 %; from smallest adjustable 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	5 %
relative positive tolerance of the operating frequency	5 %
relative negative tolerance of the operating frequency	5 %
operational current at AC at 400 V rated value	3 A
ampacity when starting maximum	30 A
operating power for 3-phase motors at 400 V at 50 Hz	0.37 1.1 kW
Inputs/ Outputs	
number of digital inputs	5
• note	4 via 3DI/LC module
safety-related	1
type of input characteristic	Type 1 in accordance with EN 61131-2
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> typical	0.009 A
Supply voltage	
type of voltage of the supply voltage	DC
supply voltage 1 at DC rated value	
minimum permissible	20.4 V
maximum permissible	28.8 V
supply voltage at DC rated value	24 V

concurred comment for writed value of complex values	
consumed current for rated value of supply voltage	
• in standby mode of operation	95 mA
during operation	160 mA
at switching on of motor	250 mA
power loss [W] for rated value of supply voltage	
 in switching state OFF with bypass circuit 	2.3 W
in switching state ON with bypass circuit	3.8 W
inrush current peak at 24 V	25 A; Observe the manual for group configuration
duration of inrush current peak at 24 V	0.145 ms
Response times	
ON-delay time	35 ms
OFF-delay time	35 50 ms
OFF-delay time with safety-related request	
 when switched off via control inputs maximum 	55 ms
 when switched off via supply voltage maximum 	120 ms
Power Electronics	
operational current	
 at 40 °C rated value 	3 A
• at 50 °C rated value	3 A
• at 55 °C rated value	3 A
• at 60 °C rated value	3 A
Installation/ mounting/ dimensions	
mounting position	Vertical, horizontal (observe derating)
fastening method	pluggable in BaseUnit
height	142 mm
width	30 mm
depth	150 mm
required spacing with side-by-side mounting	
• upwards	50 mm
downwards	50 mm
Ambient conditions	
	4 000 m; For derating see manual
installation altitude at height above sea level maximum	4 000 m; For derating see manual
installation altitude at height above sea level maximum ambient temperature	
installation altitude at height above sea level maximum ambient temperature • during operation	4 000 m; For derating see manual -25 +60 °C; For derating see manual -40 +70 °C
installation altitude at height above sea level maximum ambient temperature • during operation • during storage	-25 +60 °C; For derating see manual
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport	-25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C
installation altitude at height above sea level maximum ambient temperature • during operation • during storage	-25 +60 °C; For derating see manual -40 +70 °C
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC	 -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721	 -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices)
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation	 -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205	 -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
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installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication	 -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol	 -25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes
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installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol product function • supports PROFIenergy measured values • supports PROFIenergy shutdown	-25 +60 °C; For derating see manual -40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes No Yes
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	unshielded maximum		200 m			
JL/CSA ratings						
full-load current (FLA) to value	for 3-phase AC motor at 4	30 V rated	3 A			
yielded mechanical p	erformance [hp]					
 for single-phase 	AC motor					
— at 110/120	V rated value		0.1 hp			
— at 230 V ra	ated value		0.25 hp			
 for 3-phase AC i 	motor					
— at 200/208	V rated value		0.5 hp			
— at 220/230	V rated value		0.5 hp			
— at 460/480	V rated value		1.5 hp			
operating voltage at AC rated value	C at 60 Hz according to CS	SA and UL	480 V			
Certificates/ approvals						
General Product App	oroval					EMC
(SA)			(^U	EHC	RCM
Francisco in t						
For use in hazard- ous locations	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates	Marine / Shipping
	Safety/Safety of Ma-	Declaration of		JK	Test Certificates	Marine / Shipping
	Safety/Safety of Ma- chinery	CE		JK	Type Test Certific-	
ous locations	Safety/Safety of Ma- chinery	CE	other	JK A	Type Test Certific-	ABS

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=3RK1308-0CC00-0CP0

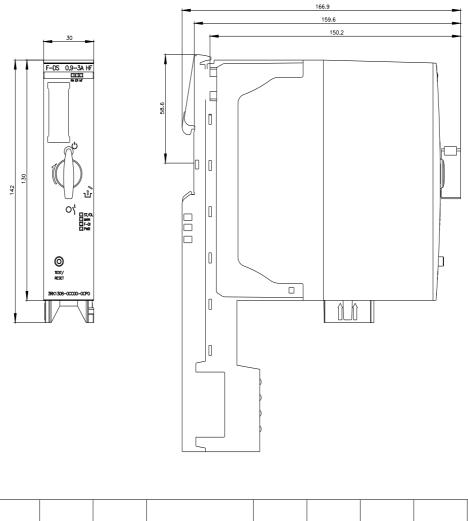
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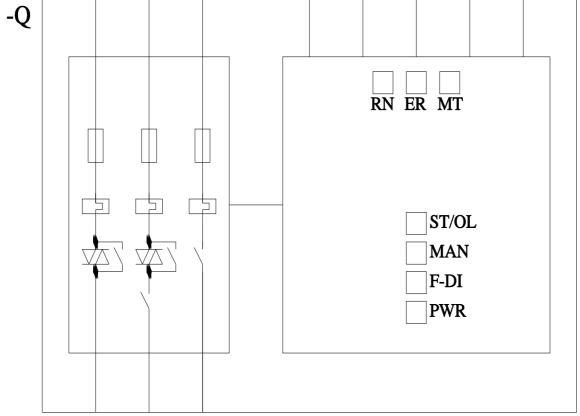
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0CC00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0CC00-0CP0&lang=en





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