SIEMENS

Data sheet

3RK1308-0AC00-0CP0

	D-O-L starter electronic switching electr. overload protection up to 1.1 kW / 400 V; 0.9A3A Option: 3DI/LC High Feature module
	PROFlenergy
Product brand name	SIMATIC
Product category	Motor starter
Product type designation	ET 200SP
General technical data	
Equipment variant acc. to IEC 60947-4-2	3
Product function	Direct-on-line starter
• on-site operation	Yes
Intrinsic device protection	Yes
Remote firmware update	Yes
• for power supply Reverse polarity protection	Yes
Power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	0.2 W
Insulation voltage	
• rated value	500 V
Degree of pollution	2
Overvoltage category	III
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between main and auxiliary circuit 	500 V
Protection class IP	IP20
Shock resistance	6g / 11 ms
Vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
Mechanical service life (switching cycles)	
 of the main contacts typical 	30 000 000
Type of assignment	1
Usage category	
● acc. to IEC 60947-4-2	AC53a: 3A: (8-0,7: 70-32)
• acc. to IEC 60947-4-3	AC51: 3A: (1,2-10: 50-360)
Equipment marking	
 acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 	Q
• acc. to DIN EN 61346-2	A
Product function	
• direct start	Yes
• reverse starting	No

Product component Motor brake output	No
Product function Short circuit protection	Yes
Design of short-circuit protection	fuse
Trip class	CLASS 5 and 10 adjustable
Maximum short-circuit current breaking capacity (Icu)	
• at 400 V rated value	55 kA
• at 500 V rated value	55 kA
● at 500 V acc. to UL 60947 rated value	100 kA
Maximum short-circuit current breaking capacity (Icu)	
in the IT network	
• at 400 V rated value	55 kA
• at 500 V rated value	55 kA
Electromagnetic compatibility	
EMC emitted interference	
• acc. to IEC 60947-1	class A
EMI immunity acc. to IEC 60947-1	Class A
Conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
 due to high-frequency radiation acc. to IEC 61000-4-6 	Class A
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	8 kV air discharge
Conducted HF-interference emissions acc. to CISPR11	Class A for industrial environment
Field-bound HF-interference emission acc. to CISPR11	Class A for industrial environment
Safety related data	
MTBF	48 y
Safe state	Load circuit open
Protection against electrical shock	finger-safe
nputs/ Outputs	
Number of digital inputs	4
• Note	4 via 3DI/LC module
Response times	
Switch-on delay time	20 ms
Off-delay time	35 50 ms
Main circuit	

Number of poles for main current circuit	3
Design of the switching contact	Hybrid
Adjustable pick-up value current of the current-dependent overload release	0.9 3 A
Minimum load [% of IM]	20 %
Type of the motor protection	solid-state
Operating voltage	
• rated value	48 500 V
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
Relative symmetrical tolerance of the operating frequency	5 %
Operating range relative to the operating voltage at AC	
• at 50 Hz	48 500 V
Operating current	
• at AC at 400 V rated value	3 A
Ampacity when starting maximum	30 A
Operating power for three-phase motors at 400 V at 50 Hz	0.37 1.1 kW
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
Consumed current for rated value of supply voltage	
• in standby mode	85 mA
during operation	140 mA
when switching on	230 mA
Power loss [W] for rated value of supply voltage	
 in switching state OFF with bypass circuit 	2 W
• in switching state ON with bypass circuit	3.4 W
nstallation/ mounting/ dimensions	
	Vertical beginned flat (about a desetion)
Mounting position	Vertical, horizontal, flat (observe derating)
Mounting type Height	Vertical, horizontal, flat (observe derating) pluggable in BaseUnit 142 mm

Required spacing

• with side-by-side mounting

- upwards

Width

Depth

30 mm

150 mm

50 mm

— downwards	50 mm

Ambient conditions Installation altitude at height above sea level		
4 000 m. For denting one manual		
4 000 m; For derating see manual		
-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		
Yes		
4 byte		
2 byte		
Plug contact to Base Unit		
Connections/Terminals		
Pluggable module - accessory		
Plug contact to Base Unit		
Plug contact to Base Unit		

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Full-load current (FLA) for three-phase AC motor
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Wire length for motor unshielded maximum

• at 480 V rated value 3 A

200 m

Current with locked rotor (LRA) for three-phase AC motor at 480 V rated value	24 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.1 hp
— at 230 V rated value	0.25 hp
• for three-phase AC 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 at 60 Hz acc. to CSA and UL rated value	480 V

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates











Type Test
Certificates/Test
Report

Shipping Approval

other





Confirmation

Environmental Confirmations

PROFINET-Certification

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0AC00-0CP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0AC00-0CP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0AC00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0AC00-0CP0&lang=en

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