SIEMENS

Data sheet

3RK1308-0CB00-0CP0

Fail-safe D-O-L starter electronic switching electr. overload protection up to 0.25 KW/400 V;0.3A to 1A Option: 3DI/LC module PROFlenergy



Figure similar

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	Fail-safe 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 	0.02 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 	15 000 000
Type of assignment	1
Usage category	
• acc. to IEC 60947-4-2	AC53a: 1A: (8-0,7: 70-32)
Equipment marking	
 acc. to DIN 40719 extended according to IEC 	Q
204-2 acc. to IEC 750	
• acc. to DIN EN 61346-2	А
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	3 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	4 KV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV
 due to high-frequency radiation acc. to IEC 61000-4-6 	Class A
Field-bound parasitic coupling acc. to IEC 61000-4-3	20 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	
Safety device type acc. to IEC 61508-2	Туре В
B10d value	3 000 000
Safety Integrity Level (SIL) acc. to IEC 61508	3
Performance level (PL) acc. to EN ISO 13849-1	е
Category acc. to EN ISO 13849-1	4
Stop category acc. to DIN EN 60204-1	0
Diagnostics test interval by internal test function maximum	600 s
PFH acc. to IEC 61508 relating to SIL	0.000000036 1/h
PFDavg with low demand rate acc. to IEC 61508	0.0000041
Hardware fault tolerance acc. to IEC 61508	1
Service life maximum	20 у
Safe state	Load circuit open
Protection against electrical shock	finger-safe

Inputs/ Outputs	
Number of digital inputs	5
Note	4 via 3DI/LC module, 1 F-DI
 safety-related 	1
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

Response times		
Switch-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	
Main circuit		
Number of poles for main current circuit	3	
Design of the switching contact	Hybrid	

Design of the switching contact	Hybrid
Adjustable pick-up value current of the current-	0.3 1 A
dependent overload release	
Minimum load [% of IM]	50 %
Type of the motor protection	solid-state

48 500 V
50 Hz
60 Hz
5 %
48 500 V
-
1 A
10 A
0.09 0.25 kW
DC
20.4 V
28.8 V

Supply voltage at DC rated value	24 V
Consumed current for rated value of supply voltage	
• in standby mode	95 mA
 during operation 	160 mA
 when switching on 	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
Installation/ mounting/ dimensions	

Mounting position	Vertical, horizontal, flat (observe derating)
Mounting type	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

Installation altitude at height above sea level	
• maximum	2 000 m; For derating see manual
Ambient temperature	
• during operation	-25 +60 °C

 during operation maximum 	For derating see manual
during operation maximum	-40 +70 °C
	-40 +70 °C
during transport Environmental category during operation acc. to IEC	3K6 (no formation of ice, no condensation), 3C3 (no salt mist),
60721	3S2 (sand must not get into the devices)
Relative humidity during operation	10 95 %
Air pressure	
• acc. to SN 31205	900 1 060 hPa
Communication/ Protocol	
Protocol is supported	
 PROFIBUS DP protocol 	Yes
 PROFINET protocol 	Yes
Product function Bus communication	Yes
Protocol is supported	
AS-interface protocol	No
Product function	
 supports PROFlenergy measured values 	Yes
 supports PROFlenergy shutdown 	Yes
Address space memory of address range	
• of inputs	4 byte
• of outputs	2 byte
Type of electrical connection	
 of the communication interface 	Plug contact to Base Unit
Connections/Terminals	
Type of electrical connection	
 1 for digital input signals 	Pluggable module - accessory
• 2 for digital input signals	Plug contact to Base Unit
Type of electrical connection	
 for main energy infeed 	Plug contact to Base Unit
 for load-side outgoing feeder 	Plug contact to Base Unit
 for supply voltage line-side 	Plug contact to Base Unit
Wire length for motor unshielded maximum	200 m
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	1A
Current with locked rotor (LRA) for three-phase AC motor at 480 V rated value	8 A
Operating voltage	
• at AC at 60 Hz acc. to CSA and UL rated value	480 V
Certificates/approvals	

General Prod	luct Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	(SA) CSA		EAC	Type Examination Certificate	EG-Konf.
Shipping Approval		other			
ABS	Lloyd's Register	Environmental Confirmations	Confirmation	PROFINET- Certification	

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

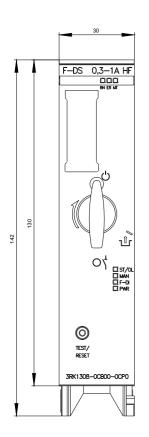
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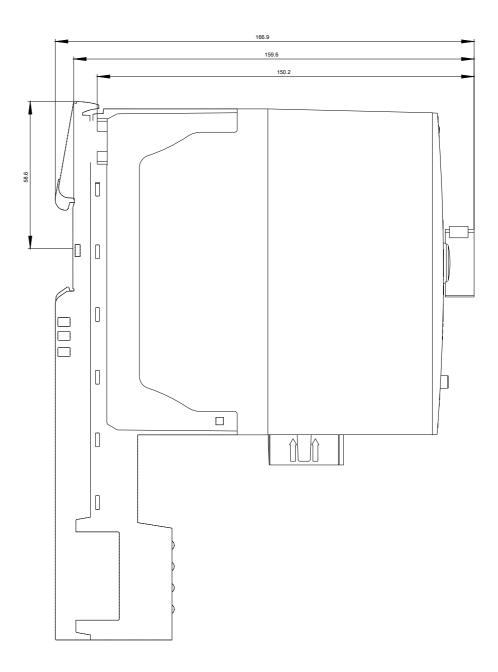
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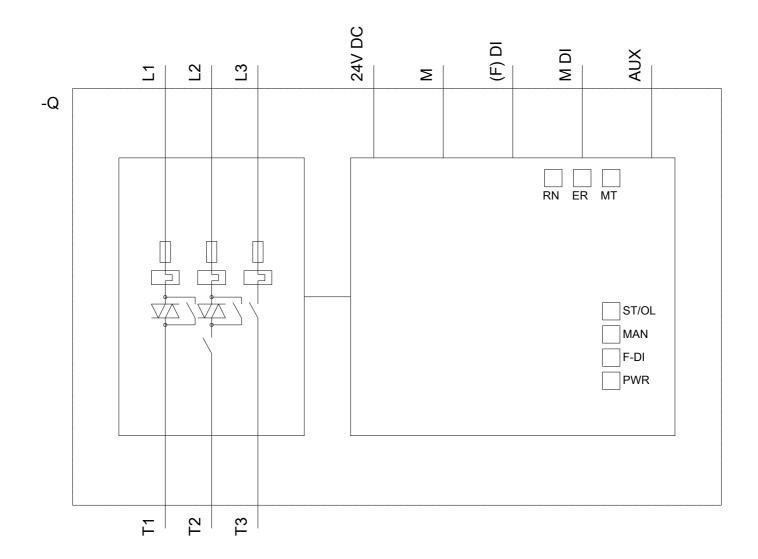
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0CB00-0CP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0CB00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0CB00-0CP0&lang=en







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