D-O-L starter electronic switching electr. overload protection up to $0.25\; kW$ / $400\; V;\, 0.3A..1A$ Option: 3DI/LC High Feature 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	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 narmicalble voltage for eafe inelation	
maximum permissible voltage for safe isolation	500 V
between main and auxiliary circuit Protection class IP	IP20
Shock resistance	
Vibration resistance	6g / 11 ms
	15 mm to 6 Hz; 2g to 500 Hz
Mechanical service life (switching cycles)	20 000 000
• of the main contacts typical	30 000 000
Type of assignment	1
Usage category	A050 AA- (0.0.7-70.00)
• acc. to IEC 60947-4-2	AC53a: 1A: (8-0,7: 70-32)
• acc. to IEC 60947-4-3	AC51: 1A: (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
Inputs/ 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	0.3 1 A
Minimum load [% of IM]	50 %
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	1 A
Ampacity when starting maximum	10 A
Operating power for three-phase motors at 400 V at 50 Hz	0.09 0.25 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

85 mA
140 mA
230 mA
2 W
3.4 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

Ambient conditions	
Installation altitude at height above sea level	
• maximum	4 000 m; For derating see manual
Ambient temperature	
during operation	-25 +60 °C
 during operation maximum 	For derating see manual
during storage	-40 +70 °C
during transport	-40 +70 °C
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
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	1 A
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

General Product Approval	Declaration of	Test
	Conformity	Certificates











Type Test Certificates/Test Report

Shipping Approval

other





Confirmation

Environmental Confirmations

PROFINET-Certification

Further information

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

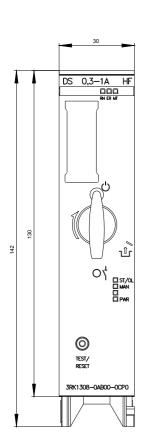
http://www.siemens.com/industrial-controls/catalogs

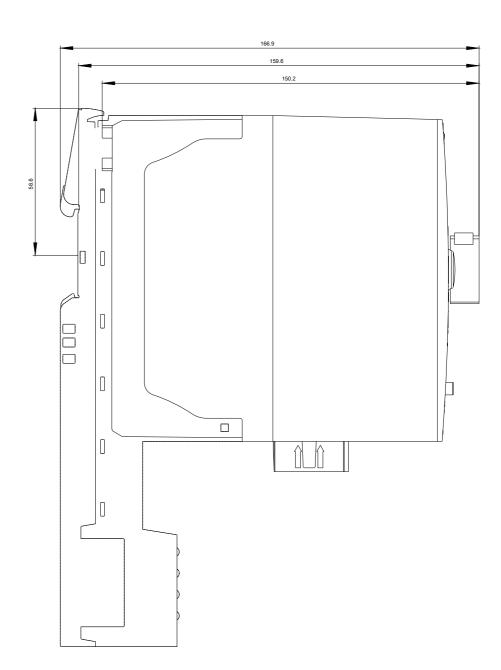
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0AB00-0CP0

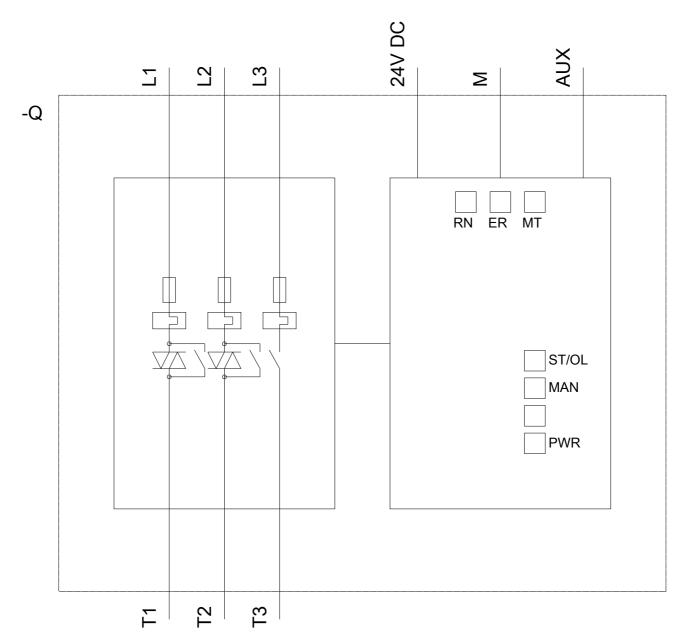
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0AB00-0CP0

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