DOL starter Electronic switching Electronic overload protection up to 5.5 kW/400 V; 4.0 A up to 12 A High-Feature incl. fan (3RW4928-8VB00) Option: 3DI/LC module PROFlenergy



Product brand name	SIMATIC
Product category	Motor starter
Product designation	Direct-on-line 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 	2.6 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
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: 12A: (8-0,5: 72-32)
● acc. to IEC 60947-4-3	AC51: 12A: (1,2-10: 50-360); AC55a: 5A: (3-240: 40-6)
Reference code acc. to DIN 40719 extended	Q
according to IEC 204-2 acc. to IEC 750	
Reference code 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
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	46 y
Safe state	Load circuit open
Protection against electrical shock	finger-safe
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	4 12 A
Minimum load [%]	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	5 %
frequency	
Relative positive tolerance of the operating frequency	5 %
Relative negative 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	12 A
Ampacity when starting maximum	100 A
Inputs/ Outputs	
Number of digital inputs	4
• Note	4 via 3DI/LC module
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
in switching state ON with bypass circuit
3.4 W

Response times	
Switch-on delay time	20 ms
Off-delay time	35 50 ms

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 60721	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 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 range memory of address range	
• of the inputs	4 byte
• of the 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

• for load-side outgoing feeder

• for supply voltage line-side

Wire length for motor unshielded maximum

Plug contact to Base Unit

Plug contact to Base Unit

Plug contact to Base Unit

200 m

Certificates/approvals

General Product Approval

EMC

Declaration of Conformity













Declaration	of
Conformity	

Test Certificates

Marine / Shipping

other

Miscellaneous

Type Test Certificates/Test Report







Confirmation

other

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=3RK1308-0AE00-0CP0

Cax online generator

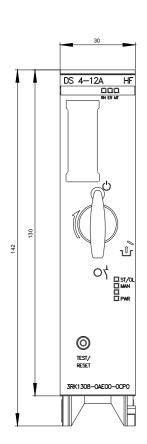
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0AE00-0CP0

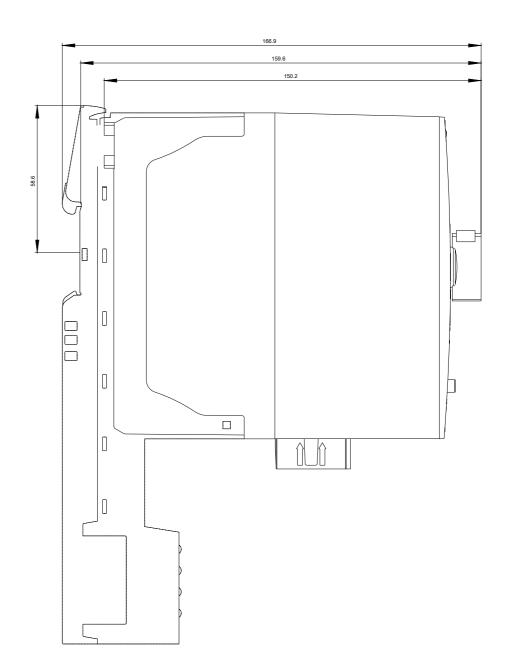
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

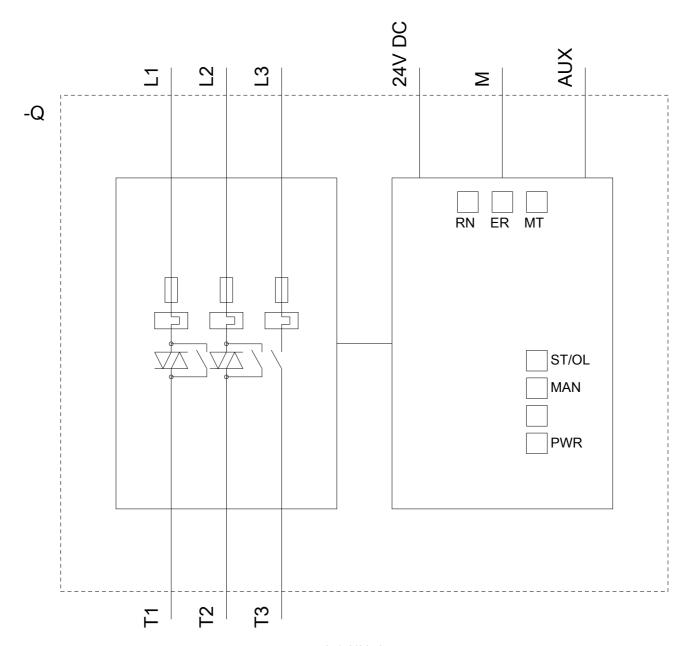
https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0AE00-0CP0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0AE00-0CP0&lang=en







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