Data sheet

Reversing starter Electronic switching Electronic overload protection up to 0.25 kW / 400 V; 0.3 A...1 A High-Feature Option: 3DI/LC module PROFlenergy



Product brand name	SIMATIC
Product category	Motor starter
Product designation	Reversing starter
Product type designation	ET 200SP

Equipment variant acc. to IEC 60947-4-2	3
Product function	Reversing 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

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: 1A: (8-0,7: 70-32)
Reference code acc. to DIN 40719 extended	Q
according to IEC 204-2 acc. to IEC 750	ų.
Reference code acc. to DIN EN 61346-2	A
Product function	
• direct start	Yes
• reverse starting	Yes
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	47 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	0.3 1 A
Minimum load [%]	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 %
Relative positive tolerance of the operating frequency	5 %
Relative negative tolerance of the operating	5 %
frequency	
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
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

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 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

Plug contact to Base Unit

Pluggable module - accessory • 1 for digital input signals

Type of electrical connection

• for main energy infeed

• for load-side outgoing feeder Plug contact to Base Unit

Plug contact to Base Unit • for supply voltage line-side

Wire length for motor unshielded maximum

200 m

1 A

8 A

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor

• at 480 V rated value

Current with locked rotor (LRA) for three-phase AC motor at 480 V rated value

Operating voltage

• at AC at 60 Hz acc. to CSA and UL rated value

480 V

Certificates/approvals

General Product Approval EMC Declaration of















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)

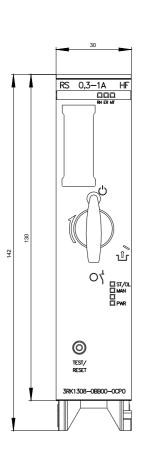
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0BB00-0CP0

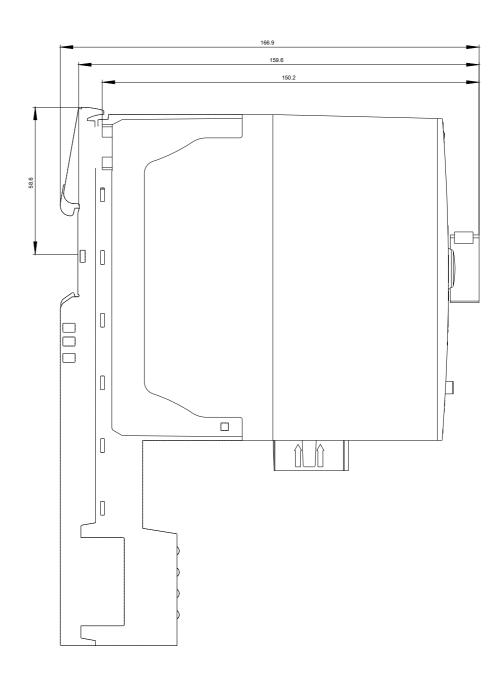
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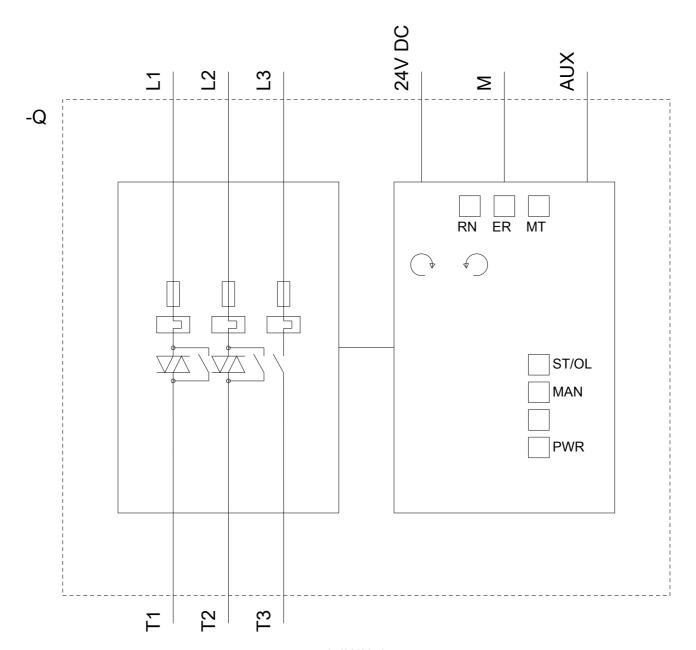
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0BB00-0CP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0BB00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0BB00-0CP0&lang=en







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