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



Product brand name	SIMATIC
Product category	Motor starter
Product designation	Direct-on-line starter
Product type designation	ET 200SP

Trip class	CLASS OFF / 5 / 10 adjustable
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 permissible voltage for safe isolation	500.14
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	AC-53a: 1 A: (8-0,7: 70-32)
• acc. to IEC 60947-4-3	AC-51: 1 A: (1,2-10: 50-360)
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	Q
Reference code acc. to DIN EN 81346-2	Q
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
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
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 %; from smallest adjustable rated current
Type of the motor protection	solid-state
Operating voltage	
• rated value	48 500 V
Relative symmetrical tolerance of the operating voltage	10 %
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 frequency	5 %
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
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
- III standby mode	00 mm (

25 A; Observe the manual for group configuration 0.145 ms
25 A; Observe the manual for group configuration
25 A; Observe the manual for group configuration
OF A. Observe the reserved for survey and formation
3.4 W
2 W
230 mA
140 mA

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

Installation/ mounting/ dimensions	
Mounting position	Vertical, horizontal (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; 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 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 	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

Certificates/ approvals

General Product Approval EMC Declaration of Conformity













Declaration of	of
Conformity	

Test Certificates

Marine / Shipping

Miscellaneous

Type Test Certificates/Test Report









other

Confirmation



Profibus

Further information

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

www.siemens.com/ic10

Industry Mall (Online ordering system)

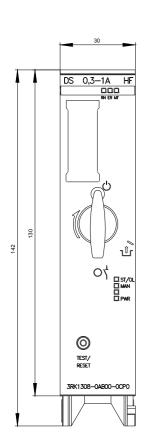
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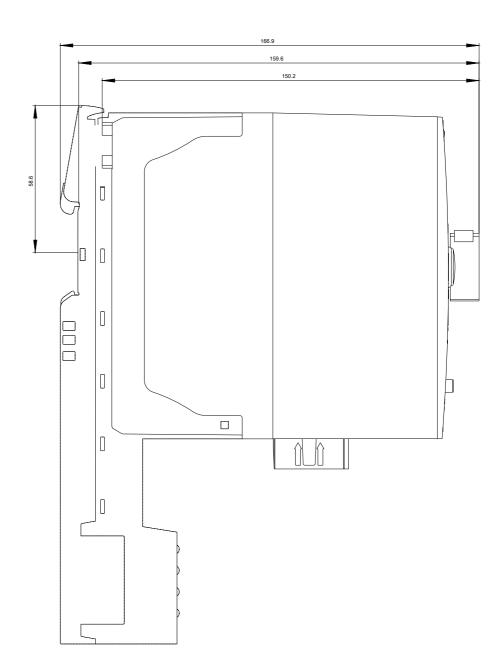
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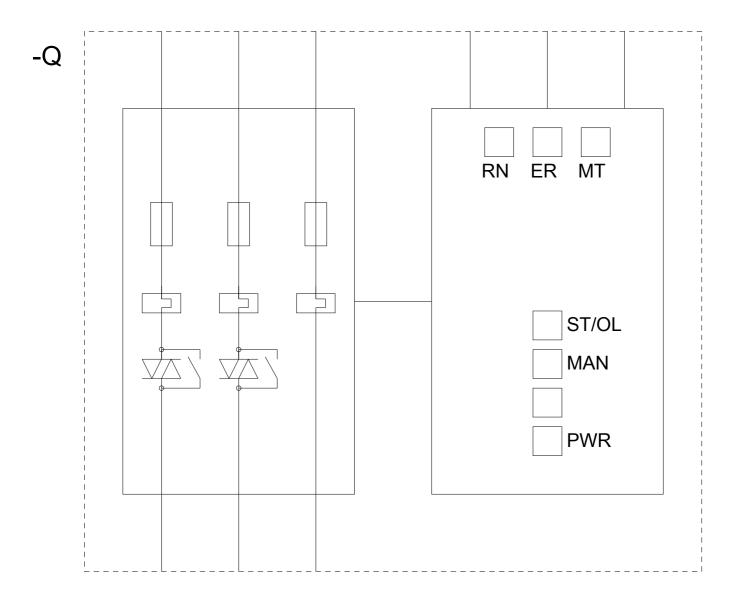
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0AB00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0AB00-0CP0&lang=en







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