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Data sheet 3RK1308-0AB00-0CP0

DOL starter Electronic switching Electronic overload protection up to 0.25 kW / 400 V; 0.3 A..1 A Option: 3DI/LC module PROFIenergy

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	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	

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• 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)
• acc. to IEC 60947-4-3	AC51: 1A: (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 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

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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 %
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 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

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	

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• in switching state OFF with bypass circuit	2 W
• 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 PROFIenergy measured values	Yes
• supports PROFIenergy shutdown	Yes
address range memory of address range	
• of the inputs	4 byte
• of the outputs	2 byte

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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
CCC	CSA	UL	EAC	C-Tick	EG-Konf.

Declaration of Conformity	Test Certificates	Marine / Shipping			other
Miscellaneous	Type Test Certificates/Test Report	ABS	LRS	DNVGL.COM/AF	Confirmation

other
PROFINET-Certification

Further information

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

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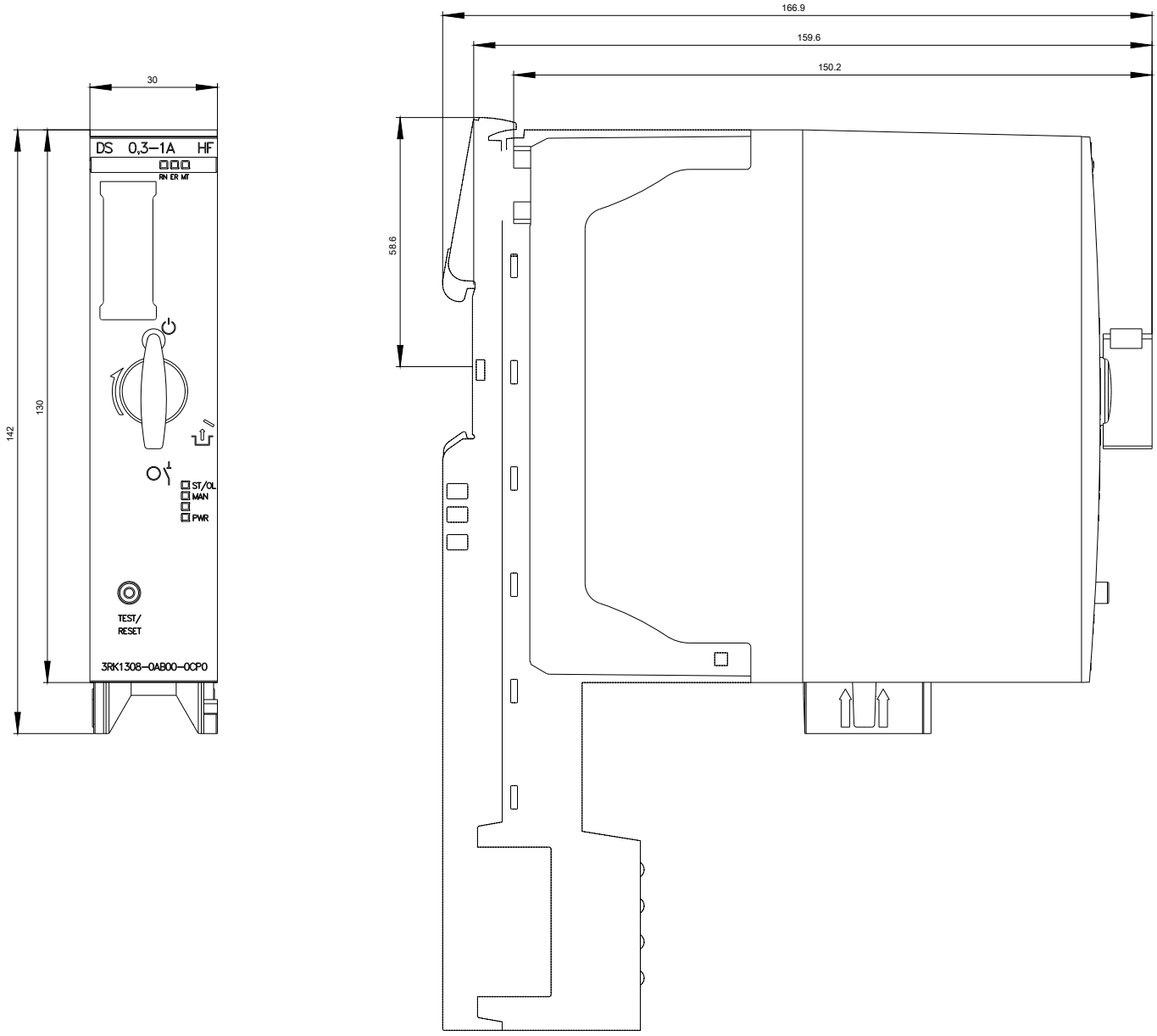
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0AB00-0CP0

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

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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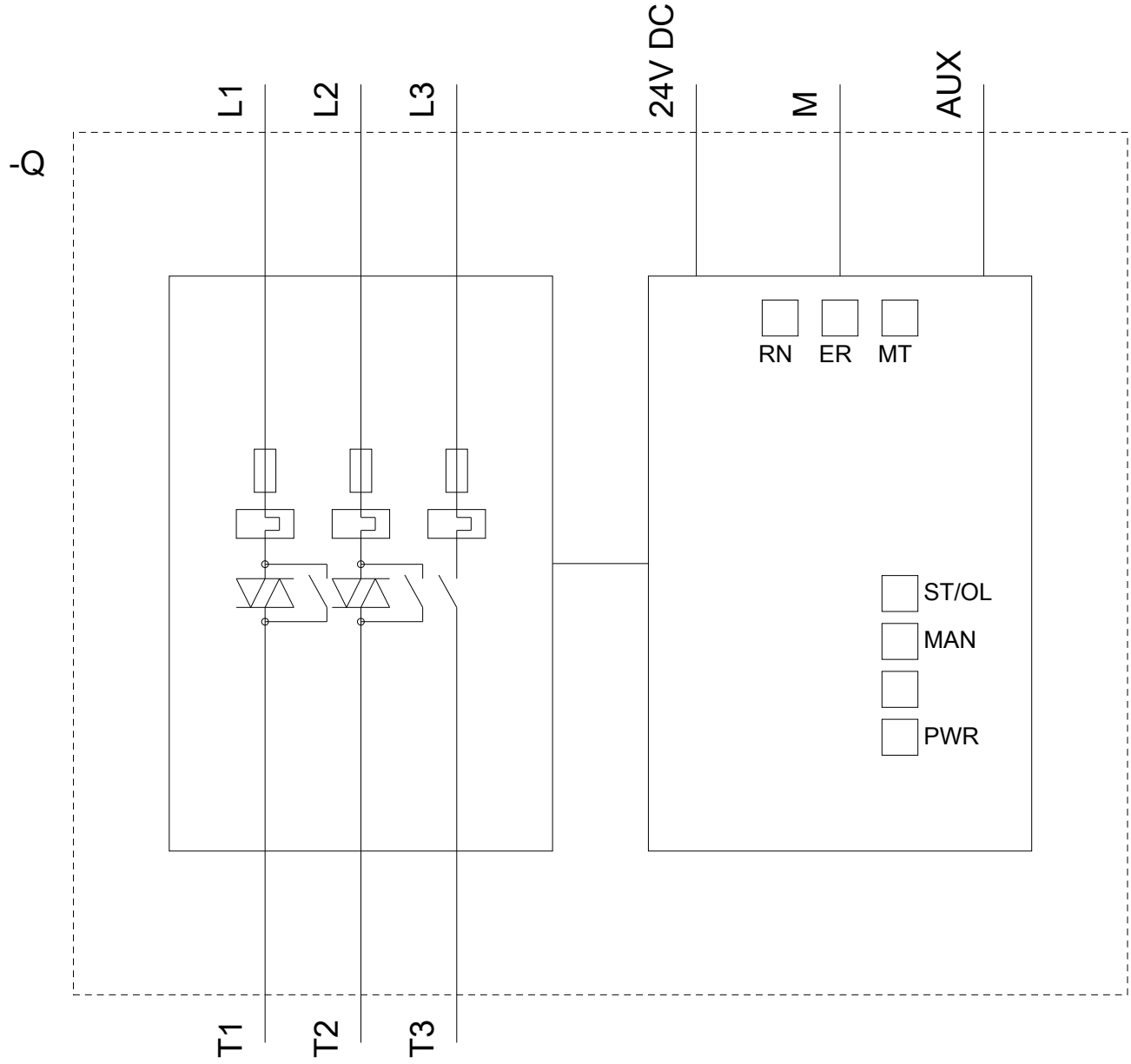

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