SIEMENS

Data sheet 3RK1308-0CC00-0CP0

Fail-safe direct-on-line starter High Feature; Electronic switching; Electronic overload protection up to 1.1 kW / 400 V; Adjustment range 0.9 .. 3 A; PROFIenergy; Option: 3DI/LC module

product brand name	SIMATIC
product category	Motor starter
product designation	Direct-on-line starter
product type designation	ET 200SP
General technical data	
equipment variant according to IEC 60947-4-2	3
product function	Fail-safe direct-on-line starter
● on-site operation	Yes
● intrinsic device protection	Yes
● remote firmware update	Yes
● for power supply reverse polarity protection	Yes
insulation voltage rated value	500 V
degree of pollution	2
overvoltage category	III
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
● between main and auxiliary circuit	500 V
shock resistance	6g / 11 ms
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
operating frequency maximum	1 1/s
mechanical service life (operating cycles) of the main contacts typical	30 000 000
type of assignment	1
utilization category	
● according to IEC 60947-4-2	AC-53a: 3 A: (8-0,7: 70-32)
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	04/15/2016
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 according 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 according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
conducted interference	
● due to burst according to IEC 61000-4-4	3 kV
● due to conductor-earth surge according to IEC 61000-4-5	4 kV
● due to conductor-conductor surge according to IEC 61000-4-5	2 kV
● due to high-frequency radiation according to IEC 61000-4-6	Class A
field-based interference according to IEC 61000-4-3	20 V/m
electrostatic discharge according to IEC 61000-4-2	8 kV air discharge
conducted HF interference emissions according to CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11	Class A for industrial environment
Safety related data	
safety device type according to IEC 61508-2	Type B
safe state	Load circuit open
B10d value	3 400 000
Safety Integrity Level (SIL) according to IEC 61508	3
performance level (PL) according to EN ISO 13849-1	e
category according to EN ISO 13849-1	4
stop category according to EN 60204-1	0
diagnostics test interval by internal test function maximum	600 s
PFH according to IEC 61508 relating to SIL	3.6E-9 1/h
PFDavg with low demand rate according to IEC 61508	4.1E-7
hardware fault tolerance according to IEC 61508	1
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Main circuit	
number of poles for main current circuit	3
design of the switching contact	Hybrid
adjustable current response value current of the current-dependent overload release	0.9 ... 3 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 %
operational current at AC at 400 V rated value	3 A
ampacity when starting maximum	30 A
operating power for 3-phase motors at 400 V at 50 Hz	0.37 ... 1.1 kW
Inputs/ Outputs	
number of digital inputs	5
● note	4 via 3DI/LC module
● safety-related	1
type of input characteristic	Type 1 in accordance with EN 61131-2
input voltage at digital input	
● at DC rated value	24 V
● with signal <0> at DC	0 ... 5 V
● for signal <1> at DC	15 ... 30
input current at digital input for signal <1> typical	0.009 A
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 of operation	95 mA
● during operation	160 mA
● at switching on of motor	250 mA
power loss [W] for rated value of supply voltage	
● in switching state OFF with bypass circuit	2.3 W
● in switching state ON with bypass circuit	3.8 W
inrush current peak at 24 V	25 A; Observe the manual for group configuration
duration of inrush current peak at 24 V	0.145 ms
Response times	
ON-delay time	35 ms
OFF-delay time	35 ... 50 ms
OFF-delay time with safety-related request	
● when switched off via control inputs maximum	55 ms
● when switched off via supply voltage maximum	120 ms
Power Electronics	
operational current	
● at 40 °C rated value	3 A
● at 50 °C rated value	3 A
● at 55 °C rated value	3 A
● at 60 °C rated value	3 A
Installation/ mounting/ dimensions	
mounting position	Vertical, horizontal (observe derating)
fastening method	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 according 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 according 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 space 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
● 2 for digital input signals	Plug contact to Base Unit
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 3-phase AC motor at 480 V rated value	3 A
yielded mechanical performance [hp]	
● for single-phase AC motor	
— at 110/120 V rated value	0.1 hp
— at 230 V rated value	0.25 hp
● for 3-phase AC motor	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.5 hp
— at 460/480 V rated value	1.5 hp
operating voltage at AC at 60 Hz according to CSA and UL rated value	480 V

Certificates/ approvals

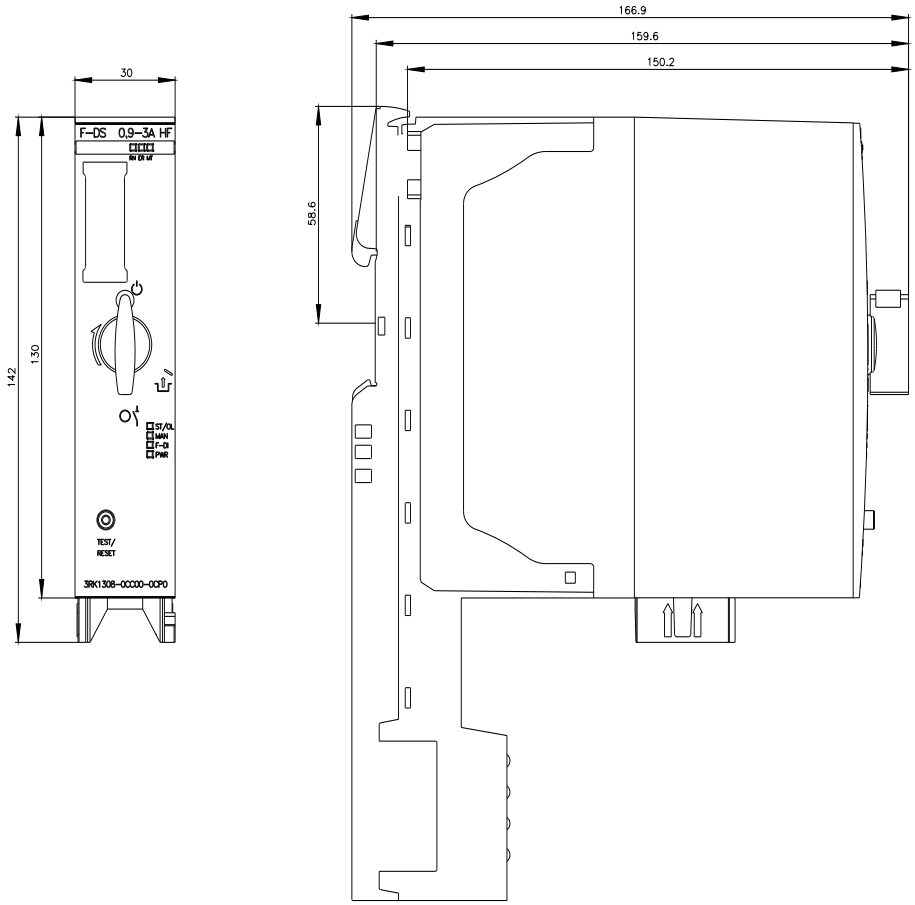
General Product Approval					EMC
CSA	CCC	Confirmation	UL	EAC	RCM

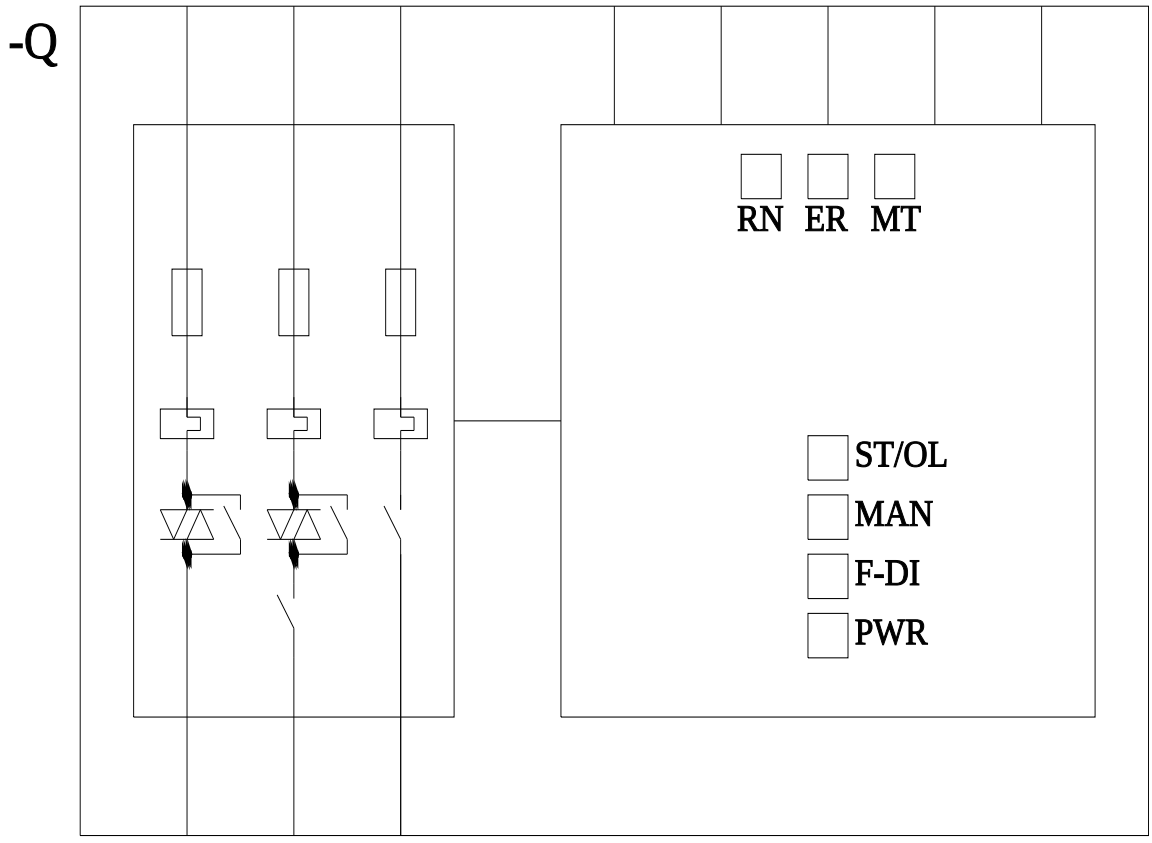
For use in hazardous locations	Functional Safety/Safety of Machinery	Declaration of Conformity		Test Certificates	Marine / Shipping
ATEX	Type Examination Certificate	EG-Konf.	UKCA	Type Test Certificates/Test Report	ABS

Marine / Shipping			other		Dangerous Good
BUREAU VERITAS	DNV	LRS	Confirmation	Profibus	Transport Information

Further information

Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0CC00-0CP0
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0CC00-0CP0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0CC00-0CP0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0CC00-0CP0&lang=en





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