3RK1308-0CC00-0CP0

Data sheet



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; PROFlenergy; 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		
trip class	CLASS OFF / 5 / 10 adjustable	
equipment variant acc. 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	
power loss [W] for rated value of the current		
at AC in hot operating state per pole	0.2 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	
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 (switching cycles) of the main contacts typical	30 000 000	
type of assignment	1	
utilization category		
• acc. to IEC 60947-4-2	AC-53a: 3 A: (8-0,7: 70-32)	
reference code acc. to IEC 81346-2	Q	
Substance Prohibitance (Date)	15.04.2016 00:00:00	
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	
breaking capacity maximum short-circuit current (lcu)		
• 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
breaking capacity maximum short-circuit current (lcu) in the IT network	
at 400 V rated value	55 kA
at 500 V rated value	55 kA
Electromagnetic compatibility	33 10.1
EMC emitted interference acc. to IEC 60947-1	class A
EMC immunity acc. to IEC 60947-1	Class A
conducted interference	0.11/
• due to burst acc. to IEC 61000-4-4	3 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	4 kV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV
 due to high-frequency radiation acc. to IEC 61000- 4-6 	Class A
field-based interference acc. to IEC 61000-4-3	20 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	
safety device type acc. to IEC 61508-2	Type B
B10d value	3 400 000
Safety Integrity Level (SIL) acc. to IEC 61508	3
performance level (PL) acc. to EN ISO 13849-1	e
category acc. to EN ISO 13849-1	4
stop category acc. to DIN EN 60204-1	0
diagnostics test interval by internal test function	600 s
maximum	
PFH acc. to IEC 61508 relating to SIL	0.000000036 1/h
PFDavg with low demand rate acc. to IEC 61508	0.00000041
hardware fault tolerance acc. to IEC 61508	1
T1 value for proof test interval or service life acc. to IEC 61508	20 y
safe state	Load circuit open
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. 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 %
	3 A
operational current at AC at 400 V rated value	3 A
operational current at AC at 400 V rated value ampacity when starting maximum	3 A 30 A
operational current at AC at 400 V rated value ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz	3 A
operational current at AC at 400 V rated value ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz Inputs/ Outputs	3 A 30 A 0.37 1.1 kW
operational current at AC at 400 V rated value ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz Inputs/ Outputs number of digital inputs	3 A 30 A 0.37 1.1 kW
operational current at AC at 400 V rated value ampacity when starting maximum operating power for 3-phase motors at 400 V at 50 Hz Inputs/ Outputs	3 A 30 A 0.37 1.1 kW

type of input characteristic	Type 1 in accordance with EN 61121 2
type of input characteristic	Type 1 in accordance with EN 61131-2
input voltage at digital input	041/
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	00.41/
minimum permissible	20.4 V
maximum permissible	
supply voltage at DC rated value	24 V
consumed current for rated value of supply voltage	05. 4
• 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	2.2.W
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
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 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 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 acc. to CSA and UL rated value	480 V

Certificates/ approvals

General Product Approval

EMC

For use in hazardous locations













Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate



Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation



Profibus

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

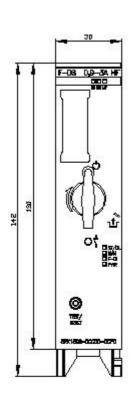
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1308-0CC00-0CP0

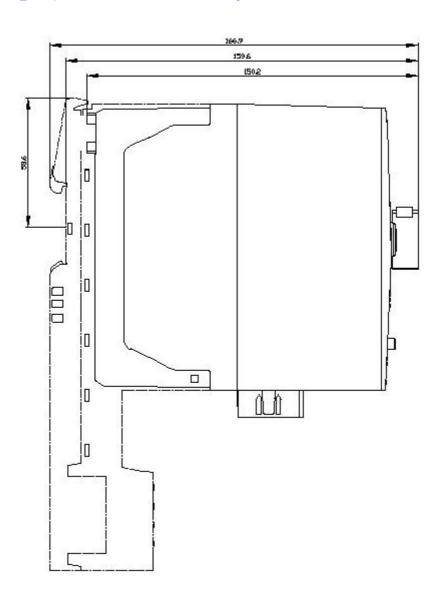
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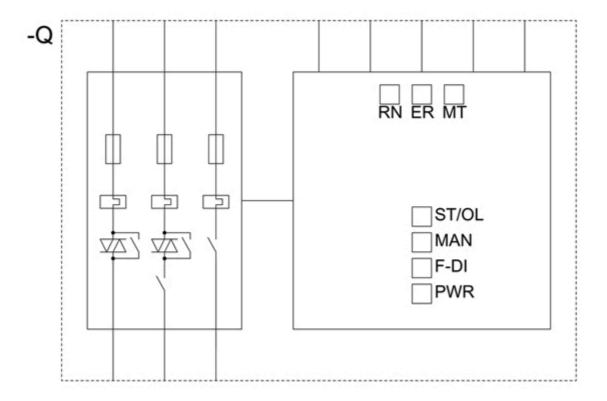
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0CC00-0CP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0CC00-0CP0







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