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; 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	
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
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 4,4'-isopropylidendiphenol (Bisphenol A, - 80-05-7 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
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	551.4
• at 400 V rated value	55 kA
• at 500 V rated value	55 kA
Electromagnetic compatibility	alaca A
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	Class A
conducted interference	214/
due to burst according to IEC 61000-4-4 due to conductor continues according to IEC 61000 4.5.	3 kV
due to conductor-earth surge according to IEC 61000-4-5 due to conductor conductor curre according to IEC.	4 kV 2 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	ZKV
 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	Туре В
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	е
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
	Solid State
operating voltage rated value	48 500 V
operating voltage rated value relative symmetrical tolerance of the operating voltage	48 500 V 10 %
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value	48 500 V 10 % 50 Hz
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value	48 500 V 10 % 50 Hz 60 Hz
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency	48 500 V 10 % 50 Hz 60 Hz 5 %
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relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency relative positive tolerance of the operating frequency relative negative tolerance of the operating frequency operational current at AC at 400 V rated value	48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 3 A
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency relative positive tolerance of the operating frequency relative negative tolerance of the operating frequency operational current at AC at 400 V rated value ampacity when starting maximum	48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 3 A 30 A
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency relative positive tolerance of the operating frequency relative negative tolerance of the operating frequency 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	48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 3 A
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relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency relative positive tolerance of the operating frequency 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 once safety-related type of input characteristic input voltage at digital input at DC rated value with signal <0> at DC	48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 3 A 30 A 0.37 1.1 kW 5 4 via 3DI/LC module 1 Type 1 in accordance with EN 61131-2 24 V 0 5 V
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency relative positive tolerance of the operating frequency relative negative tolerance of the operating frequency 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 note safety-related type of input characteristic input voltage at digital input at DC rated value with signal <0> at DC for signal <1> at DC	48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 3 A 30 A 0.37 1.1 kW 5 4 via 3DI/LC module 1 Type 1 in accordance with EN 61131-2
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency relative positive tolerance of the operating frequency relative negative tolerance of the operating frequency 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 • note • safety-related type of input characteristic input voltage at digital input • at DC rated value • with signal <0> at DC • for signal <1> at DC input current at digital input for signal <1> typical	48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 3 A 30 A 0.37 1.1 kW 5 4 via 3DI/LC module 1 Type 1 in accordance with EN 61131-2 24 V 0 5 V 15 30
relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency relative positive tolerance of the operating frequency relative negative tolerance of the operating frequency 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 note safety-related type of input characteristic input voltage at digital input at DC rated value with signal <0> at DC for signal <1> at DC	48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 3 A 30 A 0.37 1.1 kW 5 4 via 3DI/LC module 1 Type 1 in accordance with EN 61131-2 24 V 0 5 V 15 30

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
	35 50 ms
OFF-delay time	35 50 HIS
OFF-delay time with safety-related request	F5
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	
• during storage	-40 +70 °C
during storageduring transport	· ·
	-40 +70 °C
during transport environmental category during operation according to IEC	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must
during transport environmental category during operation according to IEC 60721	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices)
during transport environmental category during operation according to IEC 60721 relative humidity during operation	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 %
during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa
during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa
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during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes No Yes Yes Yes A byte 2 byte
during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes No Yes Yes A byte
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during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported • PROFIBUS DP protocol • PROFINET protocol product function bus communication protocol is supported AS-Interface protocol product function • supports PROFlenergy measured values • supports PROFlenergy shutdown address space memory of address range • of the inputs • of the outputs type of electrical connection of the communication interface Connections/ Terminals type of electrical connection	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes No Yes Yes Ves Plug contact to Base Unit
during transport environmental category during operation according to IEC 60721 relative humidity during operation air pressure according to SN 31205 Communication/ Protocol protocol is supported	-40 +70 °C -40 +70 °C 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices) 10 95 % 900 1 060 hPa Yes Yes Yes No Yes Yes Yes A byte 2 byte

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	

Certificates/ approvals

General Product Approval EMC





Confirmation







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

Dangerous Good







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

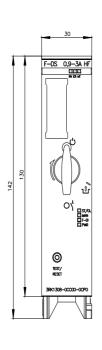
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RK1308-0CC00-0CP0}$

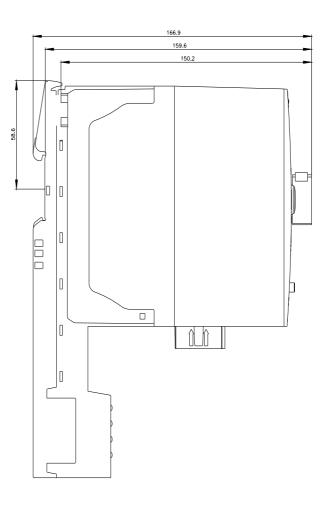
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

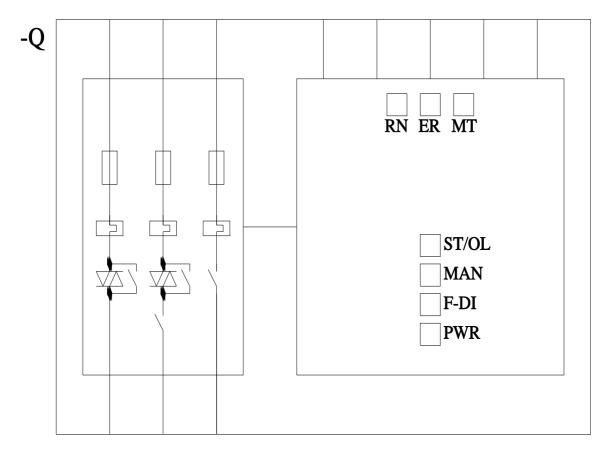
https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0CC00-0CP0

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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