SIEMENS

Data sheet

3RK1308-0AA00-0CP0



Direct-on-line starter High Feature; Electronic switching; Electronic overload protection up to 0.09 kW / 400 V; Adjustment range 0.1 .. 0.4 A; PROFlenergy; Option: 3DI/LC module

Figure similar

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

General technical data

trip class				
equipment variant according	to	IEC	60947-	4-2
product function				

- on-site operation
- intrinsic device protection
- remote firmware update
- for power supply reverse polarity protection

insulation voltage rated value

degree of pollution

overvoltage category

surge voltage resistance rated value

maximum permissible voltage for safe isolation

• between main and auxiliary circuit

shock resistance

vibration resistance

operating frequency maximum

mechanical service life (switching cycles) of the main contacts typical

type of assignment

reference code according to IEC 81346-2

Substance Prohibitance (Date)

product function

- direct start
- reverse starting

product component motor brake output product function short circuit protection

design of short-circuit protection

breaking capacity maximum short-circuit current (Icu)

- at 400 V rated value
- at 500 V rated value
- at 500 V according to UL 60947 rated value

breaking capacity maximum short-circuit current (Icu) in the IT network

- at 400 V rated value
- at 500 V rated value

CLASS OFF / 5 / 10 adjustable

Direct-on-line starter

Yes

Yes

Yes Yes

500 V

2 Ш

6 kV

500 V

6g / 11 ms

15 mm to 6 Hz; 2g to 500 Hz

30 000 000

1

Q

04/15/2016

Yes

No

No

Yes fuse

55 kA

55 kA

100 kA

55 kA

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 	2 kV
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV
 due to high-frequency radiation according to IEC 61000-4-6 	Class A
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	8 kV air discharge
conducted HF interference emissions according to	Class A for industrial environment
CISPR11	
field-bound HF interference emission according to CISPR11	Class A for industrial environment
Safety related data	
MTBF	48 y
safe state	Load circuit open
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Main circuit	illiger-sale
number of poles for main current circuit	3
design of the switching contact adjustable current response value current of the	Hybrid 0.1 0.4 A
current-dependent overload release	0.1 0.4 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	10 %
voltage	
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	0.4 A
ampacity when starting maximum	4 A
operating power for 3-phase motors at 400 V at 50 Hz	0.06 0.12 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 of operation	85 mA
during operation	140 mA
at switching on of motor	230 mA
power loss [W] for rated value of supply voltage	0.14
in switching state OFF with bypass circuit	2 W
• in switching state ON with bypass circuit	3.4 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	20 ms
OFF-delay time	35 50 ms
Power Electronics	
operational current	

	0.4.6
• at 40 °C rated value	0.4 A
• at 50 °C rated value	0.4 A
• at 55 °C rated value	0.4 A
at 60 °C rated value	0.4 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	50
• 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 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
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	0.4 A
operating voltage at AC at 60 Hz according to CSA and UL rated value	480 V
Certificates/ approvals	
General Product Approval	EMC
Confirmation	O FOR A











Declaration of Conformity **Test Certificates** Marine / Shipping



Type Test Certificates/Test Report









other

Dangerous Good

Confirmation



<u>Transport Information</u>

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=3RK1308-0AA00-0CP0

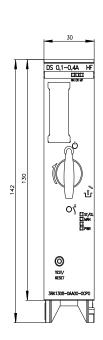
Cax online generator

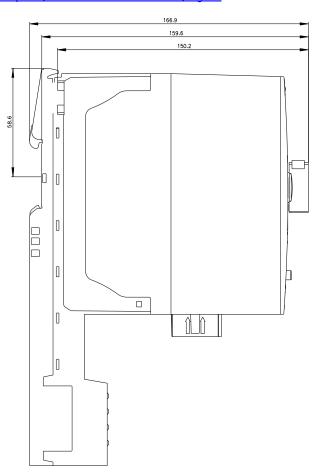
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0AA00-0CP0

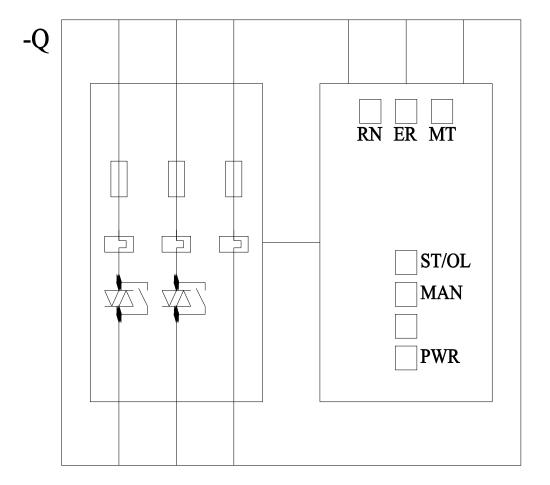
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0AA00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0AA00-0CP0&lang=en







last modified: 10/22/2021 🖸