SIEMENS

Data sheet

3RK1308-0DB00-0CP0



Failsafe reversing starter High Feature; Electronic switching; Electronic overload protection up to 0.25 kW / 400 V; Adjustment range 0.3 .. 1 A; PROFlenergy; Option: 3DI/LC module

product brand name product category product designation product type designation SIMATIC Motor starter Reversing 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

utilization category

• according to IEC 60947-4-2

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

3

Fail-safe reversing starter

Yes Yes

Yes

Yes

500 V

-III

1111

6 kV

500 V

6g / 11 ms

15 mm to 6 Hz; 2g to 500 Hz

1 1/s

30 000 000

1

AC-53a: 1 A: (8-0,7: 70-32)

Q

04/15/2016

Yes

Yes

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	Class A
due to burst according to IEC 61000-4-4	3 kV
due to burst according to IEC 01000-4-4 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 61000-4-3	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
B10d value	10 100 000
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	0.0000000036 1/h
PFDavg with low demand rate according to IEC 61508	0.0000041
hardware fault tolerance according to IEC 61508	1
safe state	Load circuit open
protection class IP on the front according to IEC	IP20
60529 touch protection on the front according to IEC 60529	finger-safe
Main circuit	
number of poles for main current circuit	3
number of poles for main current circuit design of the switching contact	3 Hybrid
number of poles for main current circuit	
number of poles for main current circuit design of the switching contact adjustable current response value current of the	Hybrid
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 %
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value relative symmetrical tolerance of the operating voltage operating frequency 1 rated value operating frequency 2 rated value relative symmetrical tolerance of the operating frequency	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 %
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number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 1 A 10 A
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 1 A
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 1 A 10 A 0.09 0.25 kW
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 5 % 1 A 10 A 0.09 0.25 kW
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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 • note	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 1 A 10 A 0.09 0.25 kW
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number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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 number of digital inputs onote safety-related type of input characteristic input voltage at digital input otherwise at DC rated value with signal <0> at DC	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 1 A 10 A 0.09 0.25 kW 5 4 via 3DI/LC module 1 Type 1 in accordance with EN 61131-2 24 V 0 5 V
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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 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	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 1 A 10 A 0.09 0.25 kW
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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 of r signal <1> at DC input current at digital input for signal <1> typical	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 1 A 10 A 0.09 0.25 kW 5 4 via 3DI/LC module 1 Type 1 in accordance with EN 61131-2 24 V 0 5 V 15 30
number of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release minimum load [%] type of the motor protection operating voltage rated value 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 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	Hybrid 0.3 1 A 50 %; from smallest adjustable rated current solid-state 48 500 V 10 % 50 Hz 60 Hz 5 % 5 % 1 A 10 A 0.09 0.25 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	22.414
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	1 A
at 50 °C rated value	1 A
at 55 °C rated value	1 A
at 60 °C rated value	1 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	100 11111
upwards	50 mm
downwards	50 mm
Ambient conditions	CO TIME
	4 000 m; For denating one manual
installation altitude at height above sea level maximum	4 000 m; For derating see manual
ambient temperature	25 LGO °C: For derating and manual
during operation	-25 +60 °C; For derating see manual -40 +70 °C
during storage	-40 +70 °C
during transport anyironmental entageny during eneration according to IEC.	
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
PROFIBUS DP protocol PROFINET protocol	Yes
product function bus communication	Yes
product ranction bas communication	100
protocol is supported AS-Interface protocol	No
protocol is supported AS-Interface protocol	No
product function	
product functionsupports PROFlenergy measured values	Yes
product functionsupports PROFlenergy measured valuessupports PROFlenergy shutdown	
product function	Yes Yes
product function	Yes Yes 4 byte
 product function supports PROFlenergy measured values supports PROFlenergy shutdown address space memory of address range of the inputs of the outputs 	Yes Yes 4 byte 2 byte
product function	Yes Yes 4 byte
product function	Yes Yes 4 byte 2 byte
product function	Yes Yes 4 byte 2 byte
product function	Yes Yes 4 byte 2 byte Plug contact to Base Unit
product function	Yes Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory
product function	Yes Yes 4 byte 2 byte Plug contact to Base Unit

• for main energy infeed

• for load-side outgoing feeder

• for supply voltage line-side

wire length for motor unshielded maximum

Plug contact to Base Unit Plug contact to Base Unit Plug contact to Base Unit 200 m

UL/CSA ratings

full-load current (FLA) for 3-phase AC motor at 480 V

rated value

operating voltage at AC at 60 Hz according to CSA and UL rated value

480 V

1 A

Certificates/ approvals

General Product Approval







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





LRS

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=3RK1308-0DB00-0CP0

Cax online generator

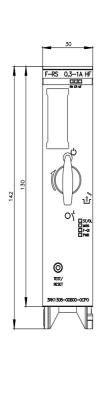
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0DB00-0CP0

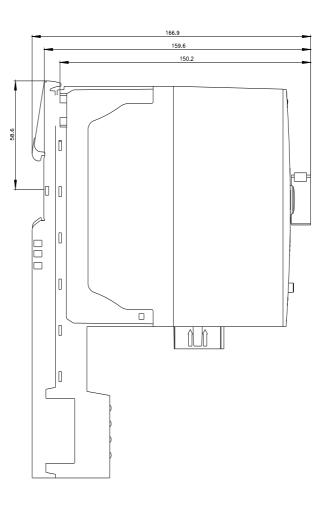
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

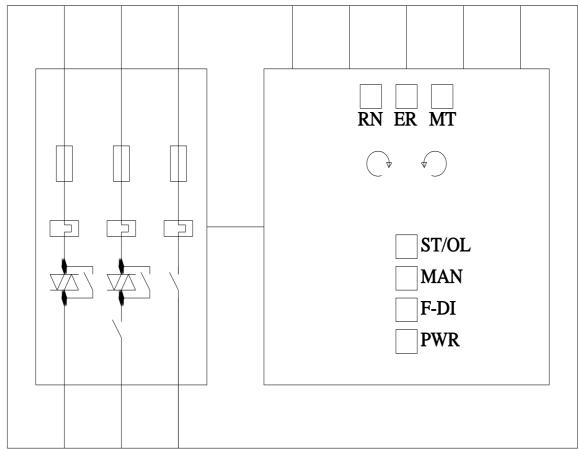
https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0DB00-0CP0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0DB00-0CP0&lang=en







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