3RK1308-0AD00-0CP0

Data sheet



Direct-on-line starter High Feature; Electronic switching; Electronic overload protection up to 4 kW / 400 V; Adjustment range 2.8 .. 9 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	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	1.5 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: 9 A: (8-0,7: 70-32)
• acc. to IEC 60947-4-3	AC-51: 9 A: (1,2-10: 50-360); AC-55a: 4 A: (3-240: 40-6)
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 (Icu)	

-t 400 Vtdl	EE I.A
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	00 10 1
EMC emitted interference acc. to IEC 60947-1	class A
EMC immunity acc. to IEC 60947-1	Class A
conducted interference	Oldos A
• due to burst acc. to IEC 61000-4-4	2 kV
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
due to conductor-conductor surge acc. to IEC	1 kV
61000-4-5	
 due to high-frequency radiation acc. to IEC 61000- 4-6 	Class A
field-based interference acc. to IEC 61000-4-3	10 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	
MTBF	46 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	2.8 9 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	9 A
ampacity when starting maximum	90 A
operating power for 3-phase motors at 400 V at 50 Hz	1.5 4 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	05 4
• 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	

	2 W
• in switching state OFF with bypass circuit	3.4 W
• in switching state ON with bypass circuit	
inrush current peak at 24 V duration of inrush current peak at 24 V	25 A; Observe the manual for group configuration 0.145 ms
·	0.145 IIIS
Response times	22
ON-delay time	20 ms
OFF-delay time	35 50 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	E0 mm
upwards downwards	50 mm
- 40111114140	50 mm
Ambient conditions	4000 5 1 1
installation altitude at height above sea level maximum	4 000 m; For derating see manual
ambient temperature	05
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
supports PROFlenergy shutdown address space memory of address range	Yes
supports PROFlenergy shutdown address space memory of address range of the inputs	Yes 4 byte
 supports PROFlenergy shutdown address space memory of address range of the inputs of the outputs 	Yes 4 byte 2 byte
supports PROFlenergy shutdown address space memory of address range of the inputs of the outputs type of electrical connection of the communication	Yes 4 byte
supports PROFlenergy shutdown address space memory of address range of the inputs of the outputs type of electrical connection of the communication interface	Yes 4 byte 2 byte
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	Yes 4 byte 2 byte
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	Yes 4 byte 2 byte Plug contact to Base Unit
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 of the outputs 1 for digital input signals	Yes 4 byte 2 byte
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 of the outputs type of electrical connection of the communication interface Connections/ Terminals type of electrical connection of the communication interface Connections/ Terminals	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory
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 of the outputs type of electrical connection of the communication interface Connections/ Terminals type of electrical connection of main energy infeed	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit
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 of the outguts type of electrical connection of the communication interface Connections/ Terminals type of electrical connection of main energy infeed of or load-side outgoing feeder	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit Plug contact to Base Unit
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 of the outputs type of electrical connection of or digital input signals type of electrical connection of or main energy infeed of or load-side outgoing feeder of or supply voltage line-side	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit
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 of the outguts type of electrical connection of or digital input signals type of electrical connection of or main energy infeed of or load-side outgoing feeder of or supply voltage line-side wire length for motor unshielded maximum	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit Plug contact to Base Unit
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 of the input signals type of electrical connection of or main energy infeed of or load-side outgoing feeder of or supply voltage line-side wire length for motor unshielded maximum UL/CSA ratings	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit 200 m
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 of the digital input signals type of electrical connection of rain energy infeed of ro load-side outgoing feeder of ro supply voltage line-side wire length for motor unshielded maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit
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 of the digital input signals type of electrical connection of rain energy infeed of ro load-side outgoing feeder of or supply voltage line-side wire length for motor unshielded maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value yielded mechanical performance [hp]	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit 200 m
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 of the digital input signals type of electrical connection for main energy infeed for load-side outgoing feeder for supply voltage line-side wire length for motor unshielded maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value yielded mechanical performance [hp] for single-phase AC motor	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit Plug contact to Base Unit Plug contact to Base Unit 200 m 9 A
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 of the digital input signals type of electrical connection ofor main energy infeed ofor load-side outgoing feeder ofor supply voltage line-side wire length for motor unshielded maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value yielded mechanical performance [hp] ofor single-phase AC motor — at 110/120 V rated value	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit 200 m 9 A 0.33 hp
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 of the digital input signals type of electrical connection of romain energy infeed of romain ener	Yes 4 byte 2 byte Plug contact to Base Unit Pluggable module - accessory Plug contact to Base Unit Plug contact to Base Unit Plug contact to Base Unit 200 m 9 A
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- at 460/480 V rated value

5 hp

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

480 V

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity













Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous

Type Test Certificates/Test Report









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=3RK1308-0AD00-0CP0

Cax online generator

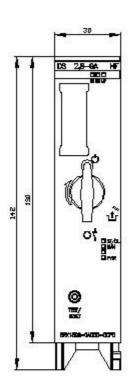
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0AD00-0CP0

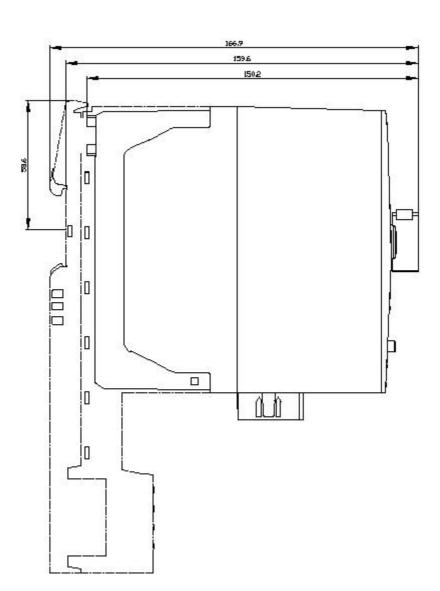
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

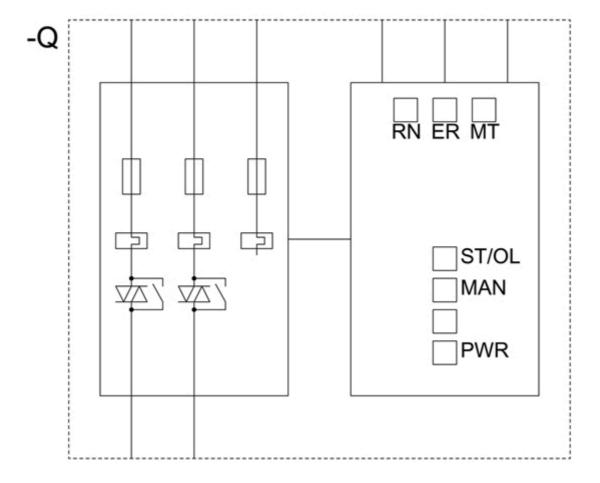
https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0AD00-0CP0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0AD00-0CP0&lang=en







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