



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	Direct-on-line starter
<ul style="list-style-type: none"> on-site operation 	Yes
<ul style="list-style-type: none"> intrinsic device protection 	Yes
<ul style="list-style-type: none"> remote firmware update 	Yes
<ul style="list-style-type: none"> for power supply reverse polarity protection 	Yes
power loss [W] for rated value of the current	
<ul style="list-style-type: none"> 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 protective separation	
<ul style="list-style-type: none"> between main and auxiliary circuit 	500 V
consumed current maximum	140 mA
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	
<ul style="list-style-type: none"> according to IEC 60947-4-2 	AC-53a: 3 A: (8-0,7: 70-32)
<ul style="list-style-type: none"> according to IEC 60947-4-3 	AC-51: 3 A: (1,2-10: 50-360)
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	04/15/2016
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.53 kg
product function	
<ul style="list-style-type: none"> direct start 	Yes
<ul style="list-style-type: none"> 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)	

<ul style="list-style-type: none"> • at 400 V rated value • at 500 V rated value • at 500 V according to UL 60947 rated value 	55 kA 55 kA 100 kA
maximum short-circuit current breaking capacity (I_{cu}) in the IT network	
<ul style="list-style-type: none"> • at 400 V rated value • at 500 V rated value 	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	
<ul style="list-style-type: none"> • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 	2 kV 2 kV 1 kV 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 CISPR11	Class A for industrial environment
field-bound HF interference emission according to CISPR11	Class A for industrial environment
Safety related data	
MTBF	48 a
Electrical Safety	
touch protection against electrical shock	finger-safe
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
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	3 A
ampacity when starting maximum	30 A
operating power for 3-phase motors at 400 V at 50 Hz	0.37 ... 1.1 kW
Inputs/ Outputs	
number of digital inputs	4
<ul style="list-style-type: none"> • note 	4 via 3DI/LC module
Supply voltage	
type of voltage of the supply voltage	DC
supply voltage 1 at DC rated value	
<ul style="list-style-type: none"> • minimum permissible • maximum permissible 	20.4 V 28.8 V
supply voltage at DC rated value	24 V
consumed current for rated value of supply voltage	
<ul style="list-style-type: none"> • in standby mode of operation • during operation • at switching on of motor 	85 mA 50 mA 140 mA
power loss [W] for rated value of supply voltage	
<ul style="list-style-type: none"> • in switching state OFF with bypass circuit • in switching state ON with bypass circuit 	1.2 W 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	
• 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	-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	3 A
current with locked rotor (LRA) for 3-phase AC motor at 480 V rated value	24 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

Approvals Certificates

General Product Approval



EG-Konf.

[Confirmation](#)



EMV

Test Certificates

Marine / Shipping



RCM

[KC](#)

[Type Test Certificates/Test Report](#)



ABS



BUREAU
VERITAS



DNV

Marine / Shipping

other

Dangerous goods

Environment

Industrial Communication



LRS

[Confirmation](#)

[Transport Information](#)

[Environmental Confirmations](#)



Profibus

Further information

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=3RK1308-0AC00-0CP0>

Cax online generator

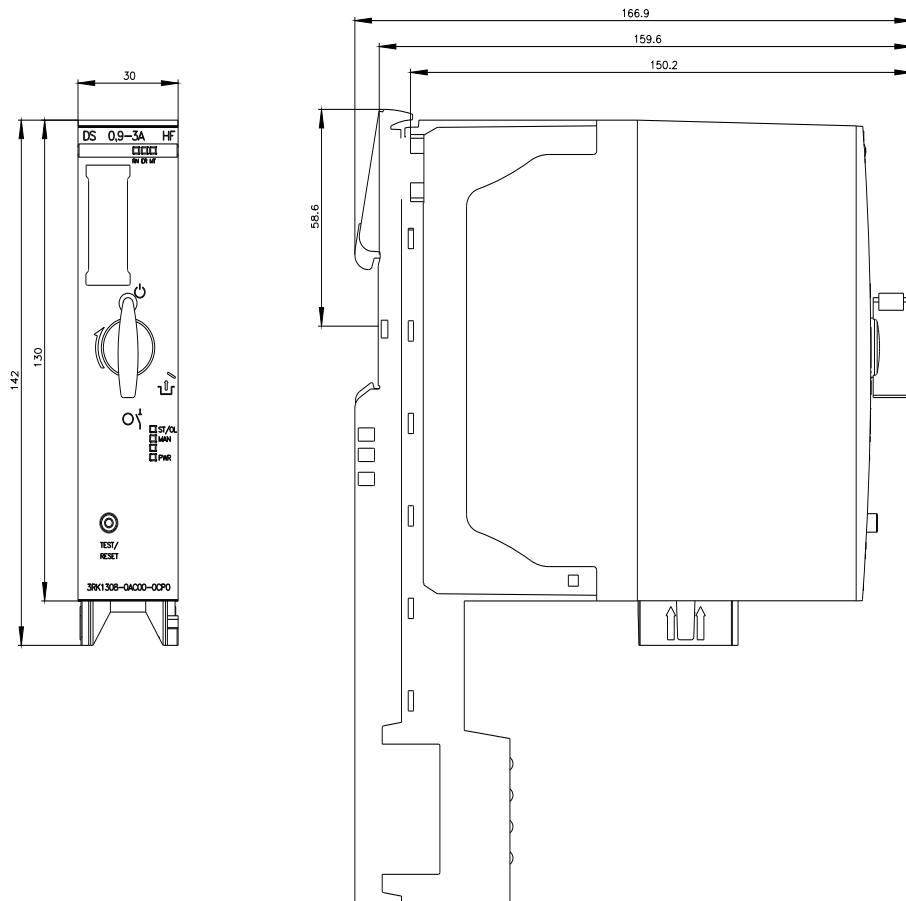
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1308-0AC00-0CP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1308-0AC00-0CP0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1308-0AC00-0CP0&lang=en



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