



SIMATIC ET 200SP e-Starter basic, 0.1 - 2.0 A reversing starter electronic short-circuit protection



product brand name	SIMATIC
product designation	e-Starter
design of the product	reversing starter
product type designation	ET 200SP
manufacturer's article number	
• of supplied fan unit	<a href="#">3RD1000-1FS00-0BP0</a>
• of the optionally available fan unit	<a href="#">3RD1000-1FD00-0BP0</a>
manufacturer's article number of the optionally available basic 4DI (LC) submodule	<a href="#">3RD1000-1MB00-0BP0</a>

General technical data	
product function external reset	Yes
design of the overcurrent release	ETU
equipment version according to IEC 60947-4-2	2
product function	
• on-site operation	Yes
• intrinsic device protection	Yes
• adjustable current limitation	Yes
• remote firmware update	Yes
• bus communication	Yes
• for power supply reverse polarity protection	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state	5.7 W
• at AC in hot operating state per pole	0.41 W
• without load current share typical	5.3 W
type of calculation of power loss depending on pole	quadratic
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
degree of protection NEMA rating	1
shock resistance	6g, 11 ms (3 Schocks) / 9g, 6 ms (1000 Schocks)
vibration resistance	f = 5 ... 8.5 Hz, dmax = 3.5 mm / 8.5 ... 26.9 Hz, amax = 10 m/s <sup>2</sup> / f = 26.9 ... 60.1 Hz, dmax = 0.35 mm / f = 60.1 ... 500 Hz, amax = 50 m/s <sup>2</sup> / 10 cycles
operating frequency maximum	0.19 1/s
type of coordination	2

<b>utilization category</b>	AC-3a
• according to IEC 60947-4-2	AC-3a
• according to IEC 60947-4-3	AC-1
<b>reference code according to IEC 81346-2</b>	Q
<b>reference code according to IEC 81346-2:2019</b>	Q
<b>reference code according to IEC 81346-2:2024</b>	Q
<b>continuous current rated value</b>	2 A
<b>Substance Prohibitance (Date)</b>	10/01/2024
<b>SVHC substance name</b>	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1
<b>Net Weight</b>	0.667 kg
<b>Motor control functions</b>	
<b>product function</b>	
• direct start	Yes
• reverse starting	Yes
<b>product component motor brake output</b>	No
<b>Short-circuit protection</b>	
<b>product function short circuit protection</b>	Yes; resettable
<b>design of short-circuit protection</b>	fully electronic
<b>conditional short-circuit current (I<sub>q</sub>) with type of coordination 2</b>	
• at 230 V rated value	100 000 A
• at 400 V rated value	100 000 A
<b>short-circuit current making capacity (I<sub>cm</sub>)</b>	
• at 240 V rated value	100 kA
• at 415 V rated value	100 kA
• at 440 V rated value	100 kA
<b>Protective and monitoring functions</b>	
<b>type of protection function of the overcurrent release</b>	LI
<b>product function</b>	
• manual RESET	Yes
• temperature-compensated overload protection	Yes
<b>trip class</b>	CLASS 10A / 10E / 20E
<b>maximum short-circuit current breaking capacity (I<sub>cu</sub>)</b>	
• at 400 V rated value	100 kA
• at 500 V rated value	100 kA
• at 500 V according to UL 60947 rated value	100 kA
<b>maximum short-circuit current breaking capacity (I<sub>cu</sub>) in the IT network</b>	
• at 400 V rated value	100 kA
• at 500 V rated value	100 kA
<b>response value current of instantaneous short-circuit trip unit</b>	115.1 A
<b>Safety related data</b>	
<b>safe state</b>	Load circuit open
<b>MTBF</b>	33 a; at 40 °C
<b>Electrical Safety</b>	
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	solid-state
<b>adjustable current response value current of the current-dependent overload release</b>	0.1 ... 2 A
<b>minimum load [%]</b>	10 %; Relative to smallest settable I <sub>e</sub>
<b>type of the motor protection</b>	solid-state
<b>operating voltage rated value</b>	
•	480 V
•	208 ... 480 V
<b>relative symmetrical tolerance of the operating voltage</b>	10 %

<b>operating frequency 1 rated value</b>	50 Hz
<b>operating frequency 2 rated value</b>	60 Hz
<b>relative symmetrical tolerance of the operating frequency</b>	5 %
<b>relative positive tolerance of the operating frequency</b>	5 %
<b>relative negative tolerance of the operating frequency</b>	5 %
<b>operational current</b>	
• at AC at 400 V rated value	2 A
• at AC-3 at 400 V rated value	2 A
• at AC-53a at 400 V at ambient temperature 40 °C rated value	2 A
<b>ampacity when starting maximum</b>	14.4 A
<b>operating power</b>	
• at AC-3 at 400 V rated value	0.75 kW
• at AC-3 at 230 V 3 phase rated value	0.46 kW
• at AC-53a at 400 V rated value	0.75 kW
operating power for 3-phase motors at 400 V at 50 Hz	0.06 ... 0.75 kW
<b>derating temperature</b>	40 °C
<b>Inputs/ Outputs</b>	
<b>number of digital inputs</b>	4
• note	4 via 4DI(LC) submodule
<b>address space memory of address range</b>	
• of the inputs	16 byte
• of the outputs	4 byte
<b>Supply voltage</b>	
<b>type of voltage of the supply voltage</b>	DC
<b>consumed current for rated value of supply voltage</b>	
• in standby mode of operation	125 mA
• during operation	190 mA
• at switching on of motor	190 mA
<b>control supply voltage at DC rated value</b>	20.4 ... 28.8 V
inrush current peak at 24 V	50 A
duration of inrush current peak at 24 V	0.2 ms
<b>ON-delay time</b>	80 ms
<b>OFF-delay time</b>	40 ms
<b>Power Electronics</b>	
<b>yielded mechanical performance [hp] for single-phase AC motor</b>	
• at 230 V rated value	0.4 hp
<b>yielded mechanical performance [hp] for 3-phase AC motor</b>	
• at 200/208 V rated value	0.5 hp
• at 220/230 V rated value	0.6 hp
• at 460/480 V rated value	1.2 hp
<b>Installation/ mounting/ dimensions</b>	
<b>fastening method</b>	pluggable in BaseUnit
<b>height</b>	151 mm
<b>width</b>	30 mm
<b>depth</b>	167 mm
<b>Ambient conditions</b>	
<b>ambient temperature</b>	
• during operation	-25 ... +60 °C; For derating see manual
• during transport	-40 ... +70 °C
• with upper limit without restrictions	40 °C
<b>Environmental footprint</b>	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	65 kg
global warming potential [CO2 eq] during manufacturing	25.6 kg
global warming potential [CO2 eq] during sales	16.3 kg
global warming potential [CO2 eq] during operation	41 kg
global warming potential [CO2 eq] after end of life	-18 kg

## Communication/ Protocol

## product function

- supports PROFinergy measured values
- supports PROFinergy shutdown

No  
No

## Connections/ Terminals

## type of electrical connection

- for main current circuit
- for auxiliary and control circuit

plug-in contact to base unit  
plug-in contact to base unit

## type of electrical connection

- 1 for digital input signals
- 2 for digital input signals

plug-in contact to 4DI (LC) submodule  
plug-in contact to 4DI (LC) submodule

## type of electrical connection

- for main energy infeed
- for load-side outgoing feeder
- for supply voltage line-side

Plug contact to Base Unit  
Plug contact to Base Unit  
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

2 A

conditional short-circuit current (Iq) with type of coordination 1 at 480 AC Y/277 V rated value

100 000 A

## Approvals Certificates

## General Product Approval

Maritime application

other

[Confirmation](#)

## Environment

Siemens  
EcoTech

## Further information

## Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

## Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

## 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=3RD1000-0BA00-0EP0>

## Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RD1000-0BA00-0EP0>

## Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RD1000-0BA00-0EP0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RD1000-0BA00-0EP0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RD1000-0BA00-0EP0&lang=en)

## Characteristic curves

[https://curves.samaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="Haupt"></mmp\\_prod\\_no>](https://curves.samaris.siemens.com/curves/<mmp_prod_noCOMP=)



