

Siemens
EcoTech











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	3RD1000-1FS00-0BP0
• of the optionally available fan unit	3RD1000-1FD00-0BP0
manufacturer's article number of the optionally available basic 4DI (LC) submodule	3RD1000-1MB00-0BP0
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 ² / f = 26.9 ... 60.1 Hz, dmax = 0.35 mm / f = 60.1 ... 500 Hz, amax = 50 m/s ² / 10 cycles
operating frequency maximum	0.19 1/s
type of coordination	2

utilization category	AC-3a
• according to IEC 60947-4-2	AC-3a
• according to IEC 60947-4-3	AC-1
reference code according to IEC 81346-2	Q
reference code according to IEC 81346-2:2019	Q
reference code according to IEC 81346-2:2024	Q
continuous current rated value	2 A
Substance Prohibitance (Date)	10/01/2024
SVHC substance name	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
Net Weight	0.667 kg
Motor control functions	
product function	
• direct start	Yes
• reverse starting	Yes
product component motor brake output	No
Short-circuit protection	
product function short circuit protection	Yes; resettable
design of short-circuit protection	fully electronic
conditional short-circuit current (I_q) with type of coordination 2	
• at 230 V rated value	100 000 A
• at 400 V rated value	100 000 A
short-circuit current making capacity (I_{cm})	
• at 240 V rated value	100 kA
• at 415 V rated value	100 kA
• at 440 V rated value	100 kA
Protective and monitoring functions	
type of protection function of the overcurrent release	LI
product function	
• manual RESET	Yes
• temperature-compensated overload protection	Yes
trip class	CLASS 10A / 10E / 20E
maximum short-circuit current breaking capacity (I_{cu})	
• 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
maximum short-circuit current breaking capacity (I_{cu}) in the IT network	
• at 400 V rated value	100 kA
• at 500 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	115.1 A
Safety related data	
safe state	Load circuit open
MTBF	33 a; at 40 °C
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
Main circuit	
number of poles for main current circuit	3
design of the switching contact	solid-state
adjustable current response value current of the current-dependent overload release	0.1 ... 2 A
minimum load [%]	10 %; Relative to smallest settable I _e
type of the motor protection	solid-state
operating voltage rated value	
•	480 V
•	208 ... 480 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	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
ampacity when starting maximum	14.4 A
operating power	
• 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
derating temperature	40 °C
Inputs/ Outputs	
number of digital inputs	4
• note	4 via 4DI(LC) submodule
address space memory of address range	
• of the inputs	16 byte
• of the outputs	4 byte
Supply voltage	
type of voltage of the supply voltage	DC
consumed current for rated value of supply voltage	
• in standby mode of operation	125 mA
• during operation	190 mA
• at switching on of motor	190 mA
control supply voltage at DC rated value	20.4 ... 28.8 V
inrush current peak at 24 V	50 A
duration of inrush current peak at 24 V	0.2 ms
ON-delay time	80 ms
OFF-delay time	40 ms
Power Electronics	
yielded mechanical performance [hp] for single-phase AC motor	
• at 230 V rated value	0.4 hp
yielded mechanical performance [hp] for 3-phase AC motor	
• 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
Installation/ mounting/ dimensions	
fastening method	pluggable in BaseUnit
height	151 mm
width	30 mm
depth	167 mm
Ambient conditions	
ambient temperature	
• during operation	-25 ... +60 °C; For derating see manual
• during transport	-40 ... +70 °C
• with upper limit without restrictions	40 °C
Environmental footprint	
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

Siemens Eco Profile (SEP)		Siemens EcoTech	
Communication/ Protocol			
product function			
• supports PROFinergy measured values		No	
• supports PROFinergy shutdown		No	
Connections/ Terminals			
type of electrical connection			
• for main current circuit		plug-in contact to base unit	
• for auxiliary and control circuit		plug-in contact to base unit	
type of electrical connection			
• 1 for digital input signals		plug-in contact to 4DI (LC) submodule	
• 2 for digital input signals		plug-in contact to 4DI (LC) submodule	
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		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
<div><div> CCC</div><div></div><div> EG-Konf.</div><div></div><div> DNV</div><div>Confirmation</div></div>			
Environment			
<div><div> EPD</div><div></div><div></div></div>			
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&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			
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