SIEMENS

Data sheet 3RD1000-0BB00-0EP0

Siemens EcoTech

SIMATIC ET 200SP e-Starter basic, 0.7 - 7.0 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	12.6 W
● at AC in hot operating state per pole	2.7 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/s²/ f = 26.9 ... 60.1 Hz, dmax = 0.35 mm / f = 60.1 ... 500 Hz, amax = 50 m/s² / 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	7 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	0.655 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 (Iq) 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 (Icm)	
● 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 (Icu)	
● 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 (Icu) 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	33.9 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	0.7 ... 7 A
minimum load [%]	10 %; Relative to smallest settable Ie
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	7 A
● at AC-3 at 400 V rated value	7 A
● at AC-53a at 400 V at ambient temperature 40 °C rated value	7 A
ampacity when starting maximum	50.4 A
operating power	
● at AC-3 at 400 V rated value	3 kW
● at AC-3 at 230 V 3 phase rated value	1.73 kW
● at AC-53a at 400 V rated value	3 kW
operating power for 3-phase motors at 400 V at 50 Hz	0.18 ... 3 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	1.4 hp
yielded mechanical performance [hp] for 3-phase AC motor	
● at 200/208 V rated value	2.1 hp
● at 220/230 V rated value	2.3 hp
● at 460/480 V rated value	4.9 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

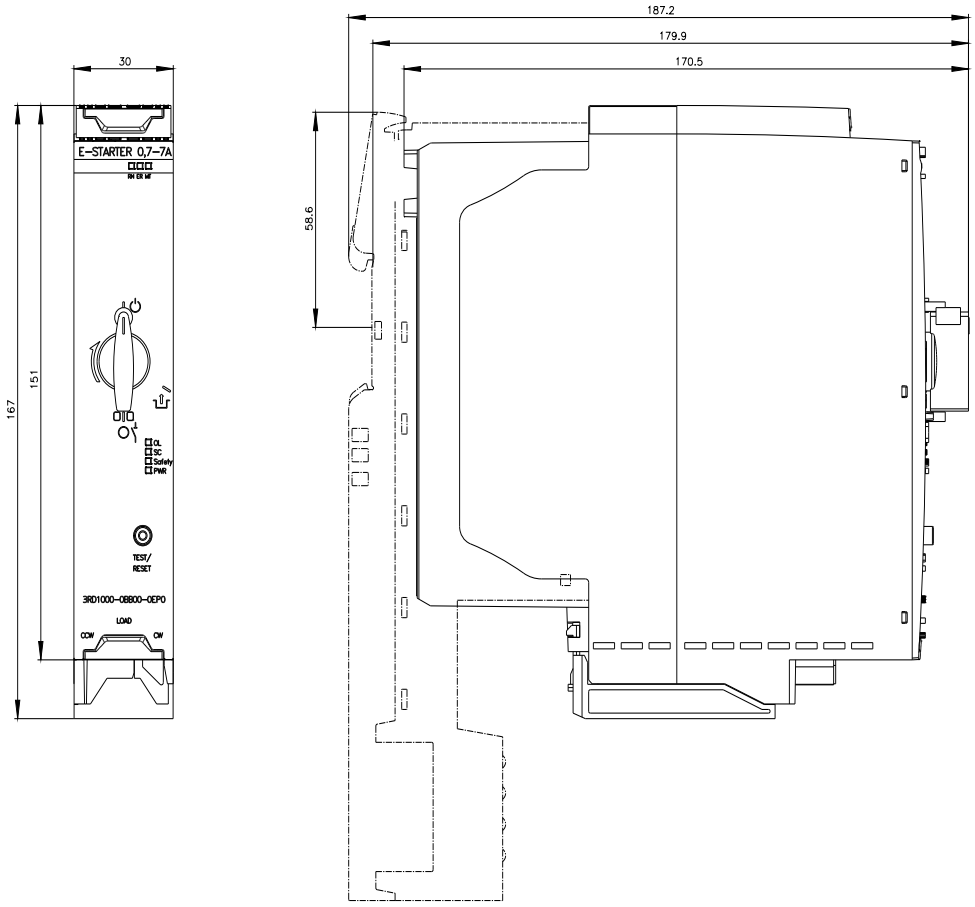
Siemens Eco Profile (SEP)	Siemens EcoTech
Communication/ Protocol	
product function	
● supports PROFIenergy measured values	No
● supports PROFIenergy shutdown	No
Connections/ Terminals	
type of electrical connection	
● for main current circuit	plug-in contact to base unit
● for auxiliary and control 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	7 A
conditional short-circuit current (Iq) with type of coordination 1 at 480 AC Y/277 V rated value	100 000 A
Approvals Certificates	

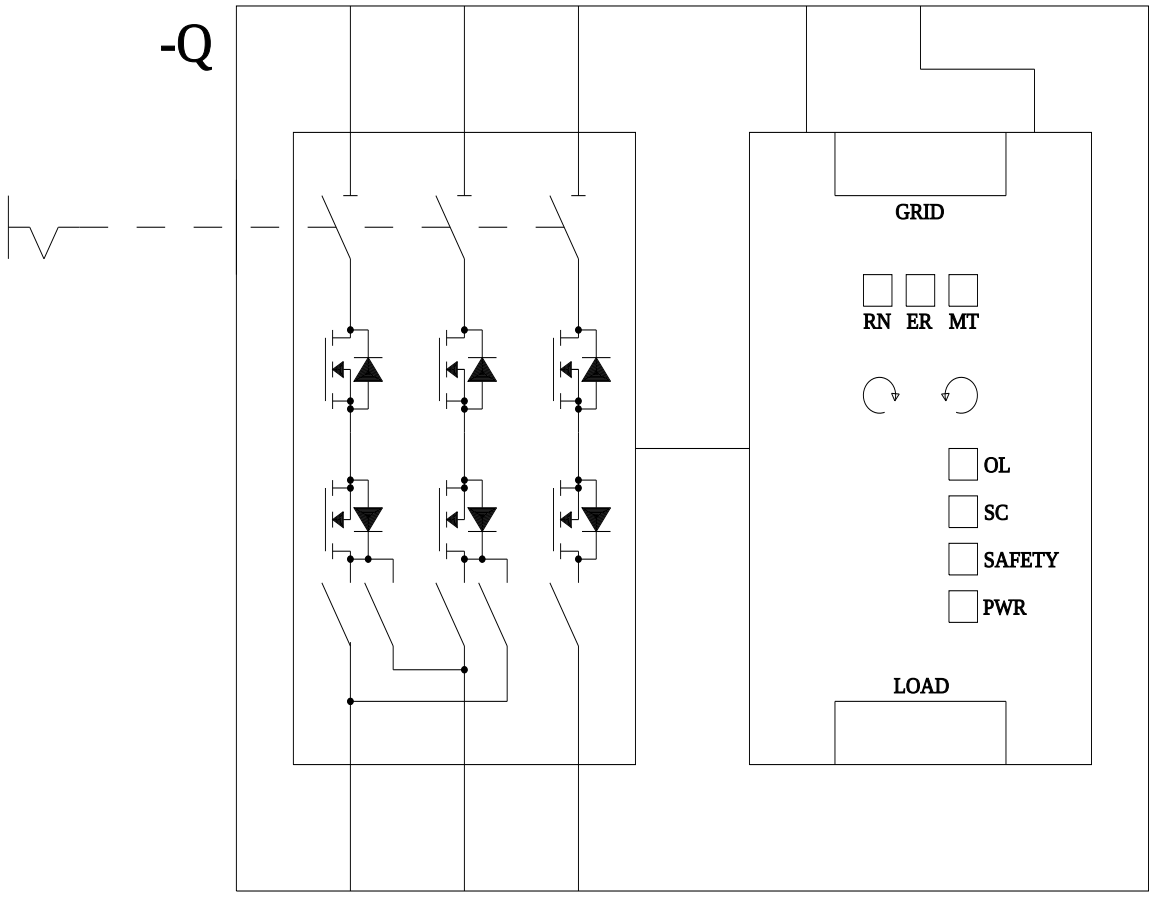
General Product Approval	Maritime application	other
		Confirmation

Environment

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=3RD1000-0BB00-0EP0
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RD1000-0BB00-0EP0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RD1000-0BB00-0EP0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RD1000-0BB00-0EP0&lang=en
Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod__no>





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