SIEMENS

Data sheet



F-DS1E-X for ET 200S Fail-safe DOL starter Setting range 2.4...16 A Mechanical switching Electronic protection AC-3, up to 7.5 kW / 400 V expandable for Brake control module 2DI module 2DI control module Circuit breaker signaling parameterizable

product brand name	SIMATIC
product designation	Motor starters
design of the product	direct starter
product type designation	ET 200S
General technical data	
product function on-site operation	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	18 W
 at AC in hot operating state per pole 	6 W
 without load current share typical 	4.22 W
insulation voltage rated value	500 V
degree of pollution	3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between main and auxiliary circuit	400 V
shock resistance	5g / 11 ms
vibration resistance	2g
operating frequency maximum	80 1/h
mechanical service life (operating cycles) of the main contacts typical	100 000
type of assignment	2
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/26/2016
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	1.69 kg
product function	
direct start	Yes
reverse starting	No
product component motor brake output	Yes
product feature	
 brake control with 230 V AC 	No
 brake control with 24 V DC 	No
 brake control with 180 V DC 	No
 brake control with 500 V DC 	No
product extension braking module for brake control	Yes
product function short circuit protection	Yes
design of short-circuit protection	circuit-breakers
maximum short-circuit current breaking capacity (Icu)	
• at 400 V rated value	50 kA
Electromagnetic compatibility	

EMC immunity according to IEC 00947-1 conducted interference due to brait according to IEC 01000-4.4 due to bronkutori-earth surge according to IEC 61000-4.5 et also bronkutori-earth surge according to IEC 61000-4.3 Stickly related this stop catagory according to IEC 60204-1 Load circuit open 1	EMC emitted interference according to IEC 60947-1	CISPR11, ambience A (industrial sector)
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operating power for 3-phase motors at 400 V at 50 Hz Inputs/ Outputs product function	• at AC-3 at 400 V rated value	16 A
Inputs/ Outputs product function	operating power at AC-3 at 400 V rated value	7.5 kW
product function	operating power for 3-phase motors at 400 V at 50 Hz	1.1 7.5 kW
digital inputs parameterizable digital outputs parameterizable No number of digital inputs 2 number of sockets for digital output signals for digital input signals for digital input signals O Supply voltage	Inputs/ Outputs	
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for digital output signals for digital input signals O Supply voltage	number of digital inputs	2
for digital input signals Supply voltage 0	number of sockets	
for digital input signals Supply voltage 0	for digital output signals	0
	for digital input signals	0
	Supply voltage	
		DC

supply voltage 1 at DC	24 24 V
supply voltage 1 at DC rated value	
minimum permissible	20.4 V
maximum permissible	28.8 V
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	21.6 26.4 V
control supply voltage 1 at DC rated value	21.6 26.4 V
control supply voltage 1 at DC	24 24 V
Installation/ mounting/ dimensions	
mounting position	vertical, horizontal
fastening method	pluggable on terminal module
height	290 mm
width	65 mm
depth	150 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	0 60 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
relative humidity during operation	5 95 %
Communication/ Protocol	
protocol is supported	
 PROFIBUS DP protocol 	Yes
PROFINET protocol	Yes
design of the interface PROFINET protocol	Yes
product function bus communication	Yes
protocol is supported AS-Interface protocol	No
address space memory of address range	
of the inputs	2 byte
of the outputs	2 byte
type of electrical connection	
 of the communication interface 	via backplane bus
 for communication transmission 	via backplane bus
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of electrical connection	
 1 for digital input signals 	using control module
2 for digital input signals	using control module
type of electrical connection	
• at the manufacturer-specific device interface	plug
• for main energy infeed	screw-type terminals
• for load-side outgoing feeder	Screw-type terminals
 for main energy transmission 	via energy bus
• for supply voltage line-side	via backplane bus
 for supply voltage transmission 	via backplane bus
UL/CSA ratings	
operating voltage at AC at 60 Hz according to CSA and UL rated value	600 V
Approvals Certificates	
General Product Approval	









Confirmation





EMV Functional Saftey Test Certificates other Dangerous goods





Type Examination Cer**tificate**

Type Test Certificates/Test Report

Confirmation

Transport Information

Environment

Environmental Con-firmations

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=3RK1301-0CB13-0AA4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0CB13-0AA4

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0CB13-0A/

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0CB13-0AA4&lang=en