SIEMENS

Data sheet



DS1E-X for ET200S High Feature DOL starter Setting range 0.3...3 A Mechanical switching Electronic protection AC-3, up to 1.1 kW / 400 V expandable for brake control module 2DI module Motor starter ES Circuit breaker signaling parameterizable DPV 1-capable PROFIENERGY-capable to PN

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	
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	750 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	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 Perfluorbutansulfonsäure (PFBS) und ihre	
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	
lectromagnetic compatibility		
EMC emitted interference according to IEC 60947-1	CISPR11, ambience A (industrial sector)	
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3, ambience A (industrial sector)	
conducted interference		
 due to burst according to IEC 61000-4-4 	2 kV on voltage supply, inputs and outputs	

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 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (U > 24 V DC)
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (U > 24 V DC)
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, 1.4 GHz2 Hz 3 V/m, 2 GHz 2.7 GHz 1 V/m
Safety related data	60 MHZ 1 GHZ 10 V/III, 1.4 GHZ2 HZ 3 V/III, 2 GHZ 2.7 GHZ 1 V/III
	4.000.000
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	F0.0/
with low demand rate according to SN 31920	50 %
with high demand rate according to SN 31920	75 %
failure rate [FIT]	
with low demand rate according to SN 31920	100 FIT
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	electromechanical
adjustable current response value current of the current- dependent overload release	0.3 3 A
type of the motor protection	solid-state
operating voltage rated value	200 400 V
operating frequency 1 rated value	50 Hz
operating frequency 2 rated value	60 Hz
relative positive tolerance of the operating frequency	10 %
relative negative tolerance of the operating frequency	10 %
operating range relative to the operating voltage at AC at 50 Hz	200 440 V
operational current	
at AC-3 at 400 V rated value	3 A
operating power at AC-3 at 400 V rated value	1.1 kW
operating power for 3-phase motors at 400 V at 50 Hz	0.1 1.1 kW
Inputs/ Outputs	
product function	
 digital inputs parameterizable 	Yes
 digital outputs parameterizable 	No
number of digital inputs	2
number of sockets	
 for digital output signals 	0
 for digital input signals 	0
Supply voltage	
type of voltage of the 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	20.4 28.8 V
control supply voltage 1	
at DC rated value	20.4 28.8 V
• 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	-4() +/() (,
during storageduring transport	-40 +70 °C -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	
product function		
 supports PROFlenergy measured values 	Yes	
 supports PROFlenergy shutdown 	Yes	
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	
Certificates/ approvals		

a

General Product Approval

Confirmation









EMC

EMC Declaration of Conformity Test Certificates other Dangerous Good







Type Test Certificates/Test Report

Confirmation

Transport Information

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RK1301-0AB10-0AB4

Cax online generator

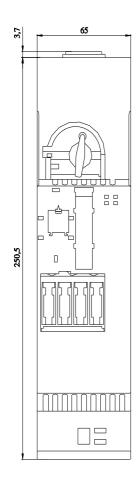
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0AB10-0AB4

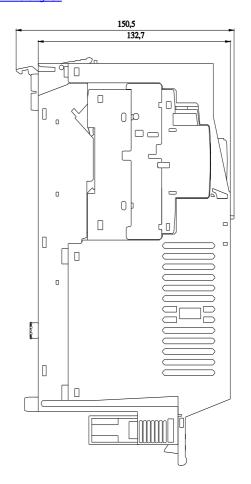
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

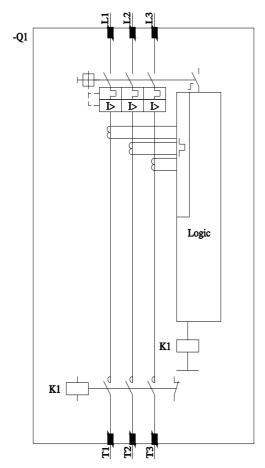
https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0AB10-0AB4

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









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9/1/2023

