



DS1E-X for ET200S High Feature 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 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	
trip class	CLASS 5, 10, 15, 20
product function on-site operation	Yes
power loss [W] for rated value of the current at AC in hot operating state	18 W
• per pole	6 W
power loss [W] for rated value of the current without load current share typical	6.36 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 safe isolation between main and auxiliary circuit	400 V
shock resistance	5g / 11 ms
vibration resistance	2g
mechanical service life (switching cycles) of the main contacts typical	100 000
type of assignment	2
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	28.05.2009 00:00:00
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
breaking capacity maximum short-circuit current (Icu)	
• at 400 V rated value	50 kA
Electromagnetic compatibility	

EMC emitted interference acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3, ambience A (industrial sector)
conducted interference	
<ul style="list-style-type: none"> • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV on voltage supply, inputs and outputs 2 kV (U > 24 V DC) 1 kV (U > 24 V DC)
field-based interference acc. to IEC 61000-4-3	80 MHz ... 1 GHz 10 V/m, 1.4 GHz ... 2 Hz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	
<ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 	50 % 75 %
failure rate [FIT]	
<ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. 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	2.4 ... 16 A
type of the motor protection	solid-state
<ul style="list-style-type: none"> • 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 %
<ul style="list-style-type: none"> • operating range relative to the operating voltage at AC at 50 Hz 	200 ... 440 V
operational current	
<ul style="list-style-type: none"> • at AC-3 at 400 V rated value 	16 A
operating power at AC-3 at 400 V rated value	7.5 kW
operating power for 3-phase motors at 400 V at 50 Hz	1.1 ... 7.5 kW
Inputs/ Outputs	
product function	
<ul style="list-style-type: none"> • digital inputs parameterizable • digital outputs parameterizable 	Yes No
number of digital inputs	2
number of sockets	
<ul style="list-style-type: none"> • for digital output signals • for digital input signals 	0 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	
<ul style="list-style-type: none"> • minimum permissible • maximum permissible 	20.4 V 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	
<ul style="list-style-type: none"> • at DC rated value • at DC 	20.4 ... 28.8 V 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
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 PROFenergy measured values	Yes
• supports PROFenergy 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 acc. to CSA and UL rated value	600 V

Certificates/ approvals	
General Product Approval	EMC



Declaration of Conformity	Test Certificates	other
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[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)



Further information
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=3RK1301-0CB10-0AB4>

Cax online generator

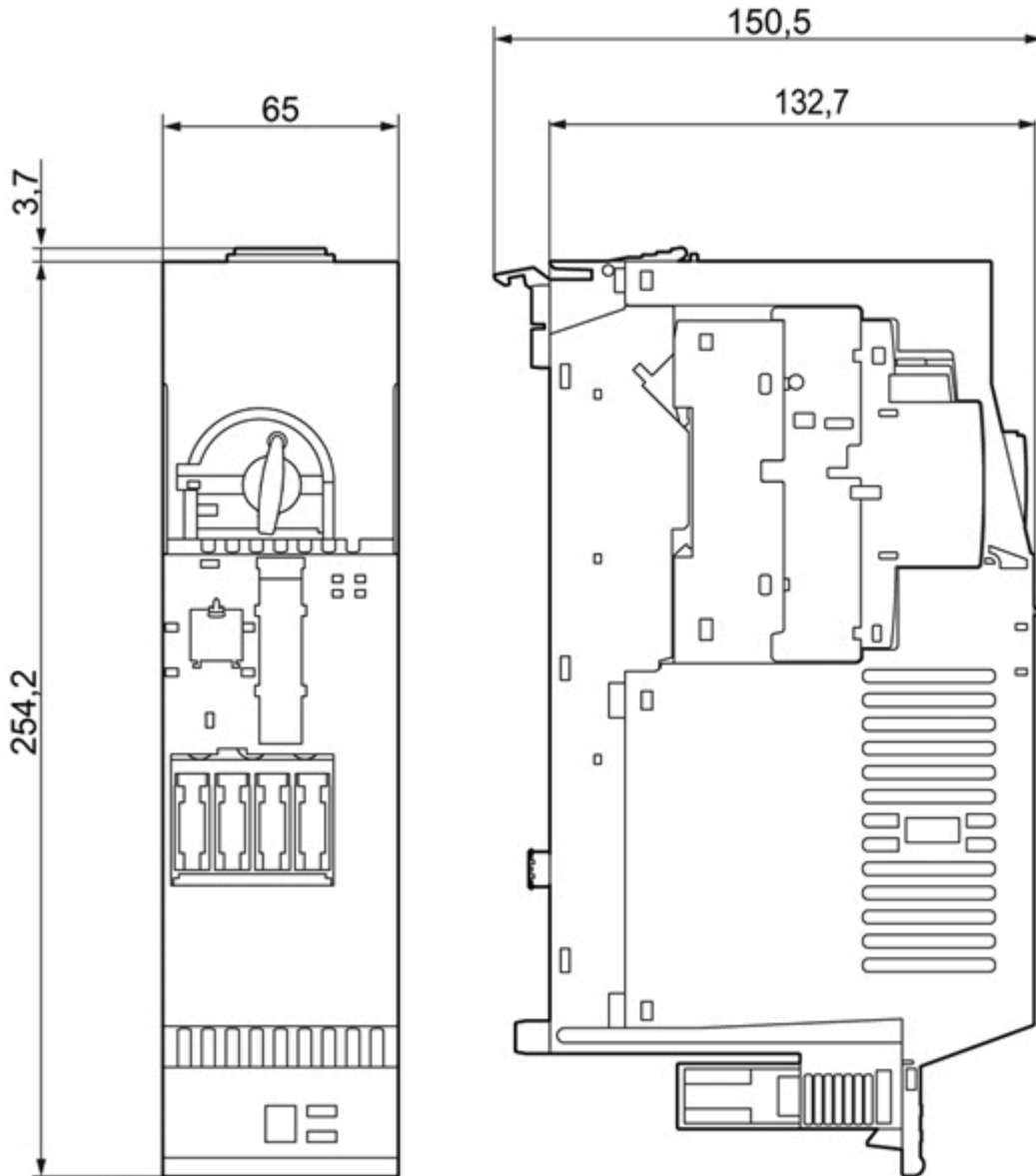
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0CB10-0AB4>

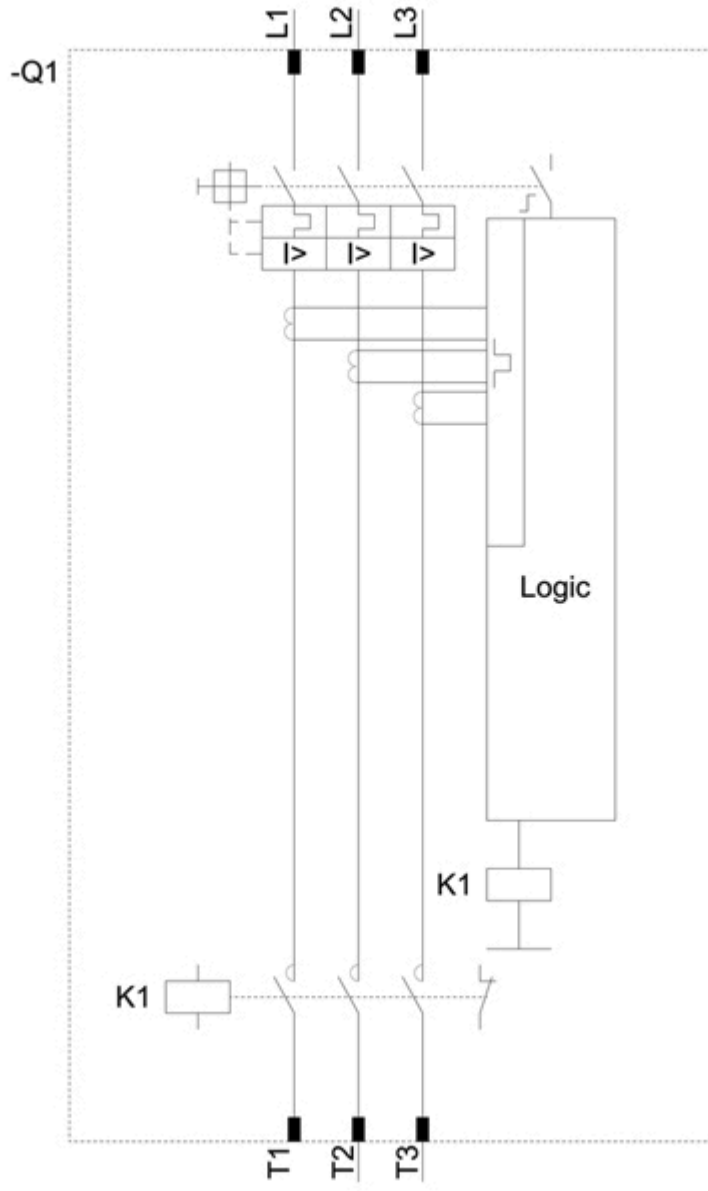
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0CB10-0AB4>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0CB10-0AB4&lang=en





last modified:

12/15/2020 