SIEMENS

Data sheet

3RK1301-0BB10-0AB4



DS1E-X for ET200S High Feature DOL starter Setting range 2.4...8 A Mechanical switching Electronic protection AC-3, up to 3 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

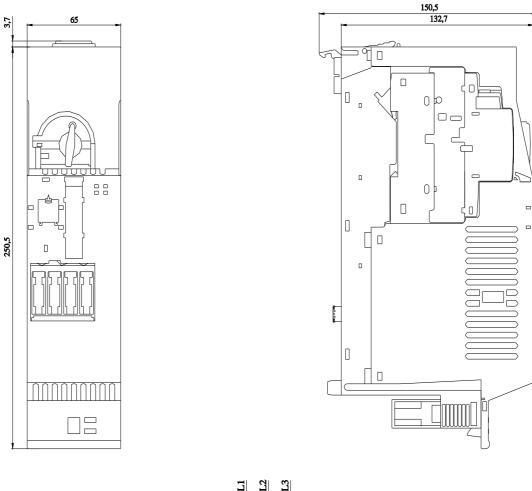
product brand name	SIMATIC			
product designation	Motor starters			
design of the product	direct starter			
product type designation	ET 200S			
General technical data				
product function on-site operation	Yes			
power loss [W] for rated value of the current				
 at AC in hot operating state 	10 W			
 at AC in hot operating state per pole 	3.33 W			
 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 protective separation between main and auxiliary circuit	400 V			
shock resistance	5g / 11 ms			
vibration resistance	2g			
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 Lead titanium zirconium oxide - 12626-81-2			
Weight	1.55 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 (lcu)				
• at 400 V rated value	50 kA			
Electromagnetic compatibility				

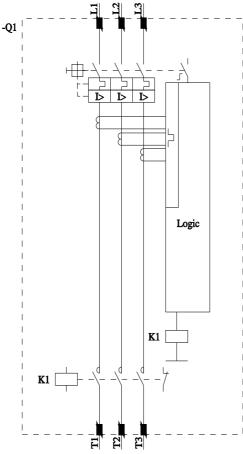
EMC emitted interference according to IEC 60947-1	CISPR11, ambience A (industrial sector)		
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3, ambience A (industrial sector)		
conducted interference			
 due to burst according to IEC 61000-4-4 	2 kV on voltage supply, inputs and outputs		
 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			
proportion of dangerous failures			
 with low demand rate according to SN 31920 	50 %		
 with high demand rate according to SN 31920 	75 %		
B10 value with high demand rate according to SN 31920	1 000 000		
failure rate [FIT] with low demand rate according to SN	100 FIT		
31920			
IEC 61508			
T1 value for proof test interval or service life according to IEC 61508	20 a		
Electrical Safety			
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	2.4 8 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 	8 A		
operating power at AC-3 at 400 V rated value	3 kW		
operating power for 3-phase motors at 400 V at 50 Hz	1.1 3 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		
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 maxin	num	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				
product function						
supports PROFlenergy measured values		Yes				
supports PROFlenergy shutdown		Yes				
address space memory of address range		100				
• 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		sciew-type terminals				
1 for digital input signals		using control module				
 2 for digital input signals 		using control module using control module				
type of electrical connection						
at the manufacturer-specific device interface		plug				
 for main energy infeed for load side outgoing fooder 		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	and UI	<u> </u>				
operating voltage at AC at 60 Hz according to CSA rated value	and UL	600 V				
Approvals Certificates	_					
General Product Approval						
General Product Approval						
		Confirmation	\sim			
	CE		(Ui)	CUL		
CA UK				EUL		
ccc	EG-Konf.		UL			
EMV	Test Certificates	other	Dangerous goode	Environment		
	rest certificates	ouler	Dangerous goods	Environment		
\sim	Type Test Certifi	ic- Confirmation	Transport Information	Environmental Con-		
(\mathbf{m}) \mathbf{k}	ates/Test Repo		<u></u>	firmations		
ccc RCM						
Further information						
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=3RK1301-0BB10-0AB4						
Cax online generator	og/product?mitb=3	ITT 1301-00010-0A04				
http://support.automation.siemens.com/WW/CAXo	rder/default.aspx?l	ang=en&mlfb=3RK1301-0BB	<u>10-0AB4</u>			
2DK12010DD100AD1						

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0BB10-0AB4

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0BB10-0AB4&lang=en





last modified: