## **SIEMENS**

## **Data sheet**



DS1-X for ET 200S Standard DOL starter expandable Setting range 7...10 A AC-3, 4 kW / 400 V Electromechanical starter for brake control module

Figure similar

SIMATIC  Motor starters		
Motor starters		
Motor starters		
direct starter		
ET 200S		
Yes		
10 W		
3.33 W		
4.12 W		
500 V		
3 at 400 V, 2 at 500 V according to IEC60664 (IEC61131)		
6 kV		
400 V		
5g / 11 ms		
2g		
750 1/h		
100 000		
1		
Q		
10/26/2016		
Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5		
0.87 kg		
Yes		
No		
Yes		
No		
Yes		
Yes		
circuit-breakers		

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  conducted interference	corresponds to degree of severity 3, ambience A (industrial sector)		
	2 kV on voltage supply inputs and outputs		
due to burst according to IEC 61000-4-4  due to send out a send out as a send out	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)		
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	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 %		
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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	20.2		
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	7 10 A		
type of the motor protection	bimetal		
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			
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	10 A		
operating power at AC-3 at 400 V rated value	4 kW		
operating power for 3-phase motors at 400 V at 50 Hz	4 4 kW		
Inputs/ Outputs			
product function			
digital inputs parameterizable	No		
digital outputs parameterizable	No		
number of digital inputs	0		
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		
power loss [W] in auxiliary and control circuit			
• in switching state OFF			
— with bypass circuit	0.3744 W		
— without bypass circuit	0.374 W		
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• in switching state ON				
— with bypass circuit	4.1184 W			
— without bypass circuit	4.118 W			
Installation/ mounting/ dimensions				
mounting position	vertical, horizontal			
fastening method	pluggable on terminal module			
height	265 mm			
width	45 mm			
depth	120 mm			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
<ul><li>during operation</li></ul>	0 60 °C			
during storage	-40 +70 °C			
during transport	-40 +70 °C			
relative humidity during operation	5 95 %			
Communication/ Protocol				
protocol is supported				
<ul> <li>PROFIBUS DP protocol</li> </ul>	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				
<ul> <li>supports PROFlenergy measured values</li> </ul>	No			
supports PROFlenergy shutdown	No			
address space memory of address range				
<ul><li>of the inputs</li></ul>	1 byte			
of the outputs	1 byte			
type of electrical connection				
<ul> <li>of the communication interface</li> </ul>	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				
<ul> <li>1 for digital input signals</li> </ul>	using control module			
2 for digital input signals	using control module			
type of electrical connection				
<ul> <li>at the manufacturer-specific device interface</li> </ul>	plug			
<ul> <li>for main energy infeed</li> </ul>	screw-type terminals			
<ul> <li>for load-side outgoing feeder</li> </ul>	Screw-type terminals			
<ul> <li>for main energy transmission</li> </ul>	via energy bus			
<ul> <li>for supply voltage line-side</li> </ul>	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 For use in h ous location	Test Certificates	other	Dangerous goods
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Type Test Certific-

ates/Test Report







## Environment

Environmental Con-firmations

## 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=3RK1301-1JB00-0AA2

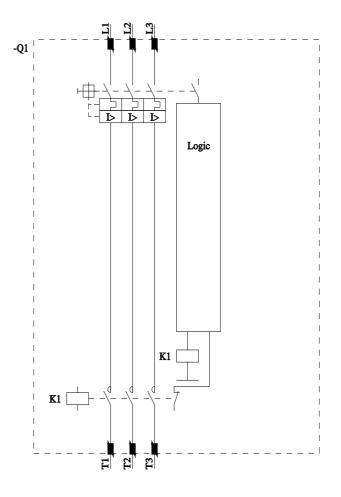
Cax online generator

rt.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-1JB00-0AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-1JB00-0AA

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RK1301-1JB00-0AA2&lang=en



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