



DS1-X for ET 200S Standard DOL starter expandable Setting range 0.18...0.25 A AC-3, 0.06 kW / 400 V Electromechanical starter for brake control module

Figure similar

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 10
product function on-site operation	Yes
power loss [W] for rated value of the current at AC in hot operating state	9 W
• per pole	3 W
power loss [W] for rated value of the current without load current share typical	4.12 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
operating frequency maximum	750 1/h
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)	26.10.2016 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)	

<ul style="list-style-type: none"> • 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	0.18 ... 0.25 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 style="list-style-type: none"> • at AC-3 at 400 V rated value 	0.25 A
operating power at AC-3 at 400 V rated value	0.06 kW
operating power for 3-phase motors at 400 V at 50 Hz	0.06 ... 0.06 kW
Inputs/ Outputs	
product function	
<ul style="list-style-type: none"> • digital inputs parameterizable • digital outputs parameterizable 	No No
number of digital inputs	0
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

power loss [W] in auxiliary and control circuit		
<ul style="list-style-type: none"> ● in switching state OFF <ul style="list-style-type: none"> — with bypass circuit — without bypass circuit ● in switching state ON <ul style="list-style-type: none"> — with bypass circuit — without bypass circuit 	<p>0.3744 W 0.374 W</p> <p>4.1184 W 4.118 W</p>	
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 style="list-style-type: none"> ● during operation ● during storage ● during transport 	<p>0 ... 60 °C -40 ... +70 °C -40 ... +70 °C</p>	
relative humidity during operation	5 ... 95 %	
Communication/ Protocol		
protocol is supported		
<ul style="list-style-type: none"> ● PROFIBUS DP protocol ● PROFINET protocol 	<p>Yes Yes</p>	
design of the interface PROFINET protocol	Yes	
product function bus communication	Yes	
protocol is supported AS-Interface protocol	No	
product function		
<ul style="list-style-type: none"> ● supports PROFenergy measured values ● supports PROFenergy shutdown 	<p>No No</p>	
address space memory of address range		
<ul style="list-style-type: none"> ● of the inputs ● of the outputs 	<p>1 byte 1 byte</p>	
type of electrical connection		
<ul style="list-style-type: none"> ● of the communication interface ● for communication transmission 	<p>via backplane bus via backplane bus</p>	
Connections/ Terminals		
type of electrical connection for main current circuit	screw-type terminals	
type of electrical connection		
<ul style="list-style-type: none"> ● 1 for digital input signals ● 2 for digital input signals 	<p>using control module using control module</p>	
type of electrical connection		
<ul style="list-style-type: none"> ● at the manufacturer-specific device interface ● for main energy infeed ● for load-side outgoing feeder ● for main energy transmission ● for supply voltage line-side ● for supply voltage transmission 	<p>plug screw-type terminals Screw-type terminals via energy bus via backplane bus via backplane bus</p>	
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	For use in hazardous locations



Declaration of
Conformity

Test Certificates

other



EG-Konf.

[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=3RK1301-0CB00-0AA2>

Cax online generator

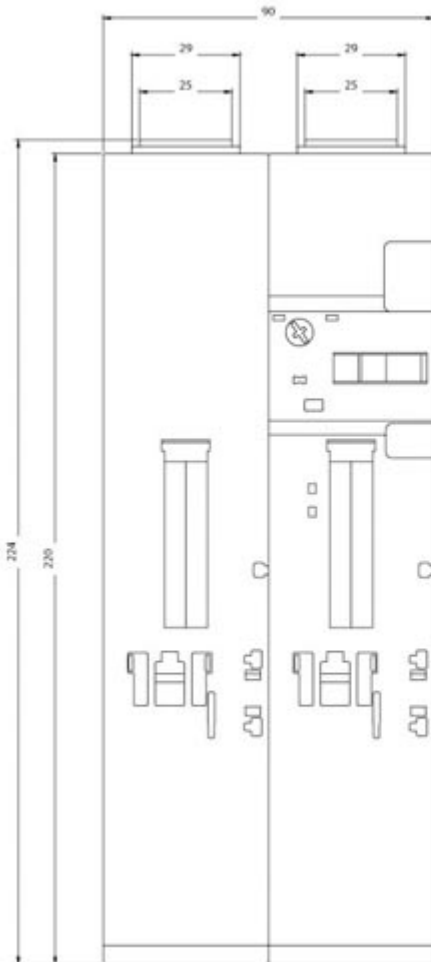
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1301-0CB00-0AA2>

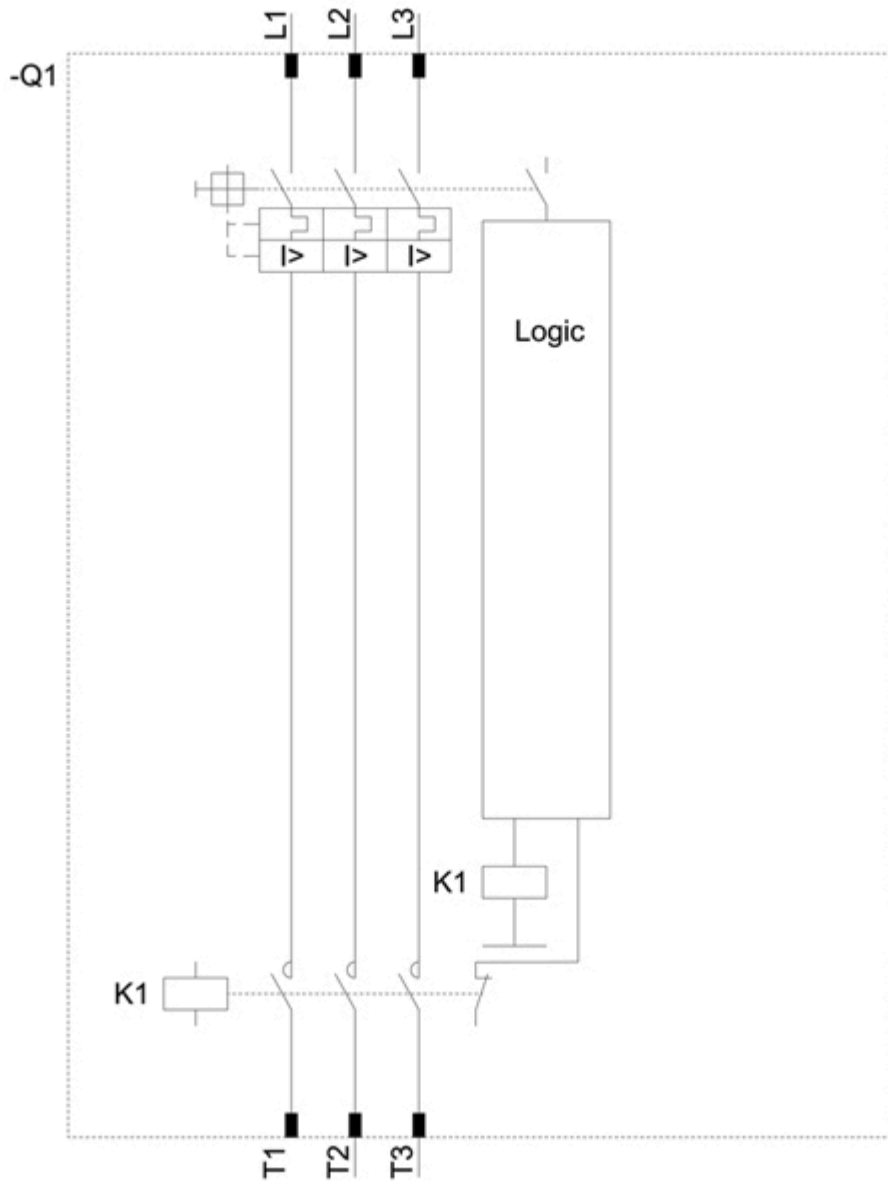
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1301-0CB00-0AA2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1301-0CB00-0AA2&lang=en





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