



Figure similar

DS1-X for ET 200S Standard DOL starter expandable Setting range 2.2....3.2 A AC-3, 1.1 kW / 400 V Electromechanical starter for brake control module

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
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 (operating cycles) of the main contacts typical	100 000
type of assignment	1
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/26/2016
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
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)

<ul style="list-style-type: none"> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV (U > 24 V DC)
<b>field-based interference according to IEC 61000-4-3</b>	80 MHz ... 1 GHz 10 V/m, 1.4 GHz ... 2 Hz 3 V/m, 2 GHz ... 2.7 GHz 1 V/m
<b>Safety related data</b>	
B10 value with high demand rate according to SN 31920	1 000 000
<b>proportion of dangerous failures</b>	
<ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> </ul>	50 %
<ul style="list-style-type: none"> <li>• with high demand rate according to SN 31920</li> </ul>	75 %
<b>failure rate [FIT]</b>	
<ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> </ul>	100 FIT
<b>protection class IP on the front according to IEC 60529</b>	IP20
<b>touch protection on the front according to IEC 60529</b>	finger-safe
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>design of the switching contact</b>	electromechanical
<b>adjustable current response value current of the current-dependent overload release</b>	2.2 ... 3.2 A
<b>type of the motor protection</b>	bimetal
operating voltage rated value	200 ... 400 V
<b>operating frequency 1 rated value</b>	50 Hz
<b>operating frequency 2 rated value</b>	60 Hz
<b>relative positive tolerance of the operating frequency</b>	10 %
<b>relative negative tolerance of the operating frequency</b>	10 %
operating range relative to the operating voltage at AC at 50 Hz	200 ... 440 V
<b>operational current</b>	
<ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> </ul>	3.2 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	1.1 ... 1.1 kW
<b>Inputs/ Outputs</b>	
<b>product function</b>	
<ul style="list-style-type: none"> <li>• digital inputs parameterizable</li> </ul>	No
<ul style="list-style-type: none"> <li>• digital outputs parameterizable</li> </ul>	No
<b>number of digital inputs</b>	0
<b>number of sockets</b>	
<ul style="list-style-type: none"> <li>• for digital output signals</li> </ul>	0
<ul style="list-style-type: none"> <li>• for digital input signals</li> </ul>	0
<b>Supply voltage</b>	
<b>type of voltage of the supply voltage</b>	DC
<b>supply voltage 1 at DC</b>	24 ... 24 V
<b>supply voltage 1 at DC rated value</b>	
<ul style="list-style-type: none"> <li>• minimum permissible</li> </ul>	20.4 V
<ul style="list-style-type: none"> <li>• maximum permissible</li> </ul>	28.8 V
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	DC
control supply voltage at DC rated value	20.4 ... 28.8 V
<b>control supply voltage 1</b>	
<ul style="list-style-type: none"> <li>• at DC rated value</li> </ul>	20.4 ... 28.8 V
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	24 ... 24 V
<b>power loss [W] in auxiliary and control circuit</b>	
<ul style="list-style-type: none"> <li>• in switching state OFF</li> </ul>	
<ul style="list-style-type: none"> <li>— with bypass circuit</li> </ul>	0.3744 W
<ul style="list-style-type: none"> <li>— without bypass circuit</li> </ul>	0.374 W
<ul style="list-style-type: none"> <li>• in switching state ON</li> </ul>	
<ul style="list-style-type: none"> <li>— with bypass circuit</li> </ul>	4.1184 W
<ul style="list-style-type: none"> <li>— without bypass circuit</li> </ul>	4.118 W
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	vertical, horizontal
<b>fastening method</b>	pluggable on terminal module
<b>height</b>	265 mm
<b>width</b>	45 mm

depth	120 mm
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
relative humidity during operation	5 ... 95 %
<b>Communication/ Protocol</b>	
<b>protocol is supported</b>	
• PROFIBUS DP protocol	Yes
• PROFINET protocol	Yes
design of the interface PROFINET protocol	Yes
<b>product function bus communication</b>	Yes
protocol is supported AS-Interface protocol	No
<b>product function</b>	
• supports PROFenergy measured values	No
• supports PROFenergy shutdown	No
<b>address space memory of address range</b>	
• of the inputs	1 byte
• of the outputs	1 byte
<b>type of electrical connection</b>	
• of the communication interface	via backplane bus
• for communication transmission	via backplane bus
<b>Connections/ Terminals</b>	
type of electrical connection for main current circuit	screw-type terminals
<b>type of electrical connection</b>	
• 1 for digital input signals	using control module
• 2 for digital input signals	using control module
<b>type of electrical connection</b>	
• 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
<b>UL/CSA ratings</b>	
operating voltage at AC at 60 Hz according to CSA and UL rated value	600 V
<b>Certificates/ approvals</b>	
General Product Approval	
EMC	



[Confirmation](#)



For use in hazardous locations	Declaration of Conformity	other	Dangerous Good
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[Confirmation](#)

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#### Further information

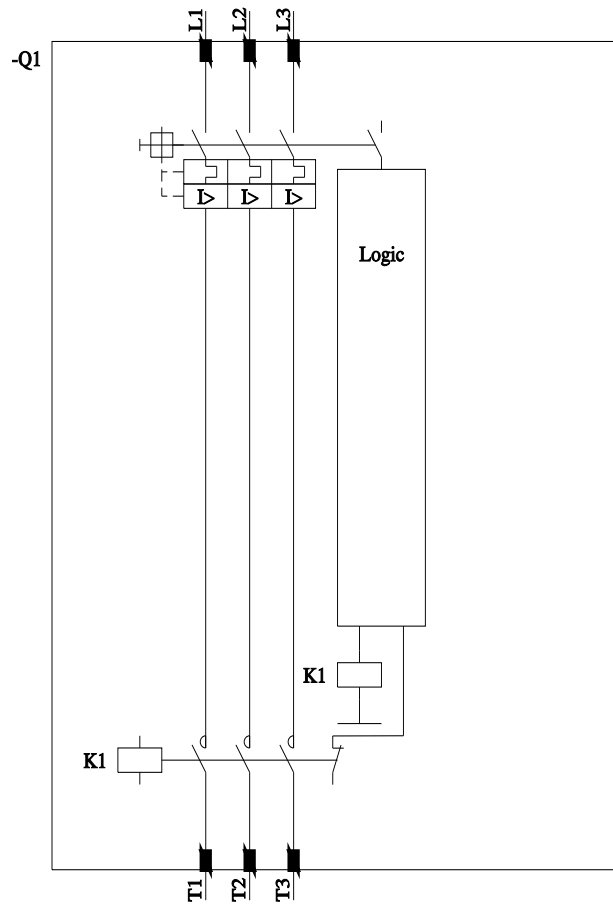
Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1301-1DB00-0AA2>

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