

XB2 for ET 200S/DS-X/RS-X brake control module 500 V DC, 0.7 A
for motors with mechanical brakes



Product brand name	SIMATIC
Product type designation	ET 200S
General technical data	
Surge voltage resistance rated value	8 kV
Shock resistance	5g / 11 ms
Product feature	
• brake control with 230 V AC	Yes
• brake control with 24 V DC	No
• brake control with 180 V DC	Yes
• brake control with 500 V DC	Yes
Type of voltage of the supply voltage for brake control required	DC
Electromagnetic compatibility	
EMC emitted interference	
• acc. to IEC 60947-1	CISPR11, ambience A (industrial sector)
EMI immunity acc. to IEC 60947-1	corresponds to degree of severity 3, ambience A (industrial sector)
Conducted interference	

- due to conductor-earth surge acc. to IEC 61000-4-5
- due to conductor-conductor surge acc. to IEC 61000-4-5

2 kV (U > 24 V DC)

1 kV (U > 24 V DC)

Safety related data

T1 value for proof test interval or service life acc. to IEC 61508

20 y

Protection against electrical shock

finger-safe

Main circuit

Number of poles for main current circuit

2

Operating voltage

- rated value

180 ... 500 V

Inputs/ Outputs

Product function

- digital inputs parameterizable
- digital outputs parameterizable

No

No

Number of digital inputs

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
- maximum permissible

20.4 V

28.8 V

Control circuit/ Control

Type of voltage of the control supply voltage

DC

Control supply voltage 1

- at DC

24 ... 24 V

Installation/ mounting/ dimensions

- (mounting position)

vertical, horizontal

- (mounting type)

pluggable on terminal module

Height

196.5 mm

Width

15 mm

Depth

95 mm

Ambient conditions

Installation altitude at height above sea level

- maximum

2 000 m

Ambient temperature

- during operation
- during storage
- during transport

0 ... 60 °C

-40 ... +70 °C

-40 ... +70 °C

Relative humidity during operation	5 ... 95 %
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Communication/ Protocol

Product function	
• supports PROFINET measured values	No
• supports PROFINET shutdown	No
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 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

Certificates/approvals

General Product Approval	EMC	Declaration of Conformity
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Declaration of Conformity	Test Certificates	other
Miscellaneous	Type Test Certificates/Test Report	Confirmation

Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1903-0CC00>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1903-0CC00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1903-0CC00>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1903-0CC00&lang=en

last modified:

04/29/2019