SIEMENS

Data sheet

6AG1132-6FD00-7CU0



SIPLUS ET 200SP DQ 4x24..230VAC/2A HF based on 6ES7132-6FD00-0CU0 with conformal coating, -40...+70 °C, digital output module, suitable for BU type U0, color code CC20, channel diagnostics two alternative operating modes: DQ and power control,

Figu	ure si	milar

General information	
Product type designation	DQ 4x24 230 V AC/2 A HF
Firmware version	
 FW update possible 	Yes
usable BaseUnits	BU type U0
Color code for module-specific color identification plate	CC20
Product function	
 I&M data 	Yes; I&M0 to I&M3
Isochronous mode	No
Operating mode	
• DQ	Yes
 DQ with energy-saving function 	Yes
• PWM	No
Oversampling	No
• MSO	No
 Phase control 	Yes; Control area: 8.5 100% of the phase angle
 Trailing-edge phase 	No
Half-wave	Yes
Full-wave	Yes
Supply voltage	
Rated value (AC)	230 V; 47 63 Hz, max. rate of change of frequency 1 mHz/s
permissible range, lower limit (AC)	20.4 V
permissible range, upper limit (AC)	264 V
Input current	
Current consumption (rated value)	8 mA; without load
output voltage / header	
Rated value (AC)	230 V; 24V AC to 230V AC
Power loss	
Power loss, typ.	9 W; Active power, load voltage 230 V, all outputs loaded with 2 A, 50 Hz
Address area	
Address space per module	
Inputs	+ 1 byte for QI information
Outputs	8 byte
Hardware configuration	
Automatic encoding	Yes
Mechanical coding element	Yes
Selection of BaseUnit for connection variants	
• 1-wire connection	BU type U0

	2-wire connection	BU type U0
Optimized and statustic Trace Type of optimized statustic 4 Current sourcing No Digital outputs 4 Current sourcing No Stand stream framework statustic Yes Digital outputs, parameterizable Yes Stand stream framework statustic Yes Oper-coact detection Yes Controlling outputs 1m.44.04 Xe or more No A Ker on weith 10 tripping outputs in the module supply Controlling outputs Yes Statusting capacity of the outputs Yes Statusting capacity of the outputs 2 A. Max: 4 A see additional description in manual • of reginal "1" and value 2 A. Max: 4 A note deraining asee the notes in the manual • of reginal "1" and value 2 A. • of reginal "1" and value 2 A. • of reginal "1" permissible range, max. 4 A. note deraining data in the manual • of reginal "1" permissible range, max. 3 mA • of reginal "1" permissible range, max. 4 A. note deraining data in the manual • of reginal "1" permissible range.min. 10 mA • or si		
Type of diplicit output Trice: Number of diplicit outputs 4 Current-strukting No Current-strukting No Current-strukting Yes Diplicit outputs, parameter/stable Yes Stort-circuit protocolon No. excernal lay channel • Kes Aministry of the outputs 1 m/k 40 V A0 or more • With induction No. excernal lay channel • With induction from the max. 2 A • With induction load, max. 2 A • Or signal 11* permissible range, min. 10 mA • or signal 11* permissible range, min. 10 mA • or signal 11* permissible range, min. 2 A • Or signal 11* permissible range, min. 2 A • or signal 11* permissible range, min. 10 mA • or signal 11* permissible range, min. 2 A • or signal 1** rank 2 A • or lange lank <td></td> <td></td>		
Number of digital outputs 4 Current-sourcing No Current-sourcing Yes Stort-circuit protection No: external fusing necessary Open-circuit distribution No: external fusing necessary Output distribution No: external fusing necessary Output distribution No: external fusing necessary Output distribution Yes Switching capacity of the outputs Yes Output distribution bad, max. 2 A In or signal "1" nemissitor range, max. 2 A If or signal "1" permissitor range, max. 3 mA Output distribution thresistorie load. Yes Output distribution thresistorie load. Yes Switching fequency No Or signal "1" rank value 2 C cycles Output distribution thresistorie load. Yes Switching fequency <		Triac
Current-serving No Operation operations Yes		
Current-sourcing Yes Diplial outputs prameterizable Yes Stort-circuit protection No; external fusing necessary Open-circuit direction Yes, channel by channel • Response threshold, typ. 1 mX: 40 V AC or more Overfoad protection Yes, channel by channel • Overfoad protection Yes, channel by channel • With resistive foad, max. 2 A. Max: 4 A, see additional description in manual • with inductive foad, max. 2 A. • or signal 1" rated value		
Diple topuls, parametersable Yes Stort-circuit detection No: Actional bits measures Open-circuit detection No: A miniature fuse with 10 fripping aurent and fripping characteristic with response timestive four with 10 fripping aurent and fripping characteristic with response timestive four with 10 fripping aurent and fripping characteristic with response timestive four with 10 fripping aurent and fripping characteristic with response must be provided in the module supply Controlling a digital input Yes Switching capacity of the outputs 2 A; Max: 4 A; see additional description in manual • with inductive load, max. 2 A; Max: 4 A; see additional description in manual • or insignal "1", min. 20.4 V Output witting 2 A • for signal "1", min. 2 A • for signal "1" permissible range, max. 3 A • for signal "1" permissible range, max. 4 A; note derating data in the manual • for signal "1" permissible range, max. 3 mA Output delay with resistive load 40 ms; 2 AC cycles • for regularing of two outputs 5 minitia of the module (acc. to EC 60947.5-1, AC15), max. • for regularing frequency No • for regularing frequency A Apples to DQ mode; limited by line frequency in PC mode <	-	
Short-circuit protection No: external fusing necessary Opera-circuit diversion Vest channel by channel Overfood protection No: Animature shoet with 10 inpiging ourmet and tripping characteristic with response* must be provided in the module supply Switching capacity of the outputs Yes • with resistive load, max. 2 A • on lamp load, max. 2 A • on lamp load, max. 2 A • on lamp load, max. 2 A • or signal "1", min. 20.4 V Output votage 2 A • or signal "1" primisble range, min. 10 mA • or signal "1" premisble range, min. 10 mA • or signal "1" premisble range, min. 2 A • or signal "1" premisble range, min. 3 mA Output diversitie load 4 A note derating data in the manual • or signal "1" premisble range, max. 3 mA • Output diversitie load 5 may • or signal "1" premisble range, max. 4 A note derating data in the manual • or signal "1" premisble range, max. 2 A • or signal "1" premisble range, max. 2 A • or signal "1" premisble range, max. 3 mA Output diversitient of the outputs 1 MX and A code • or signal "1" premisble range, max. 1 MX and A code • or signal may 1 M	0	
Open-circuit detection Yes; channel by channel • Response threshold, typ. 1.mk, 40 VAC more more Overload protection Yas. Solid consection Yas. Solid consection<		
1 mk, 40 V AC or more 1 mk, 40 V AC or more Overload protection No: A miniture face were that 0 tripping current and tripping characteristic Yeas Switching capacity of the outputs • with resistive load, max. 2 A, Max: 4 A, see additional description in manual • with inductive load, max. 2 A • on lamp load, max. 2 A • for signal 1*1, min. 2 Output values • for signal 1*1, min. 2 Output values • for signal 1*1 permissible range, min. 10 mA • for signal 1*1 permissible range, min. 2 A • for signal 1*1 permissible range, min. 10 mA • for signal 1*1 permissible range, max. 4 A note derating data in the manual 0 for signal 1*1 permissible range, max. 2 A 0 for signal 1*1 permissible range, max. 2 A 0 for signal 1*1 permissible range, max. 2 A 0 for signal 1*1 permissible range, max. 2 A 0 for signal 1*1 permissible range, max. 0 for signal 1*1 permo		• •
Overload protection No: A miniature fuse with 10 impping current and hipping characteristic "quick response" must be provided in the module supply Controlling a digital imput Yes Switching arguestic of the outputs 2 A. Max. 4 A. see additional description in manual 2 A • with inductive load, max. 100 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 00 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 100 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 100 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 100 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 100 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 100 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 100 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 100 W. Tungsten rating in accordance with UL: for thermistors with higher power ratings, see the notes in the manual 100 W. Tungsten rating in accordance with UL: for thermistors with response? • for signal '1' permissible range, min. 10 mA • for signal '1' permissible range, min. 10 mA • for signal '1' permissible range, min. 10 mA • for signal '1' permissible range, min. 10 mA <	•	
Controlling a digital input. Yes Switching appacity of the outputs 2 • with inductive load, max. 2 • or lamp load, max. 2 • or lamp load, max. 100 W, Tungsten rating in accordance with UL; for thermistors with higher power ratings, see the notes in the manual • of signal *1*, min. 20.4 V Output voltage 2 • for signal *1* data value 2 • for signal *1* permissible range, max. 4 • for signal *1* permissible range, max. 3 • for vignal *1* permissible range, max. 4 • for vignal *1* permissible range, max. 4 • for vignal *1* permissible range, max. 3 • for vignal *1* permissible range, max. 4 • for vignal *1* permissible range, max. 4 • for redundant control of a load Yes Switching frequency ************************************		No; A miniature fuse with 10 tripping current and tripping characteristic
Switching "agains" of the outputs 2 Å; Max. 4 Å, see additional description in manual • with inductive load, max. 2 Å • on lamp load, max. 2 Å • on lamp load, max. 100 W; Tungsten rating in accordance with UL; for thermistors with higher power ratings. See the notes in the manual • for signal '17, min. 20.4 V Output current • for signal '17 permissible range, min. • for signal '17 permissible range, min. 10 mA • for signal '17 permissible range, max. 3 mA Output delay with resistive load • for signal '17 max. • O'to ri7, max. 20 ms; 1 AC cycles • O'to ri7, max. 20 ms; 1 AC cycle Parallel switching of two outputs • for logic links • for logic links No • for upraing No • o'to ri7, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc: to IEC 60047-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc: to IEC 60047-5-1, AC15), max. 2 A; Max. 4 A, see additional description in manual • current per module, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode	Controlling a digital input	
• with resistive load, max. 2 Å; Max. 4 Å, see additional description in manual • with inductive load, max. 100 W; Tungsten rating in accordance with UL; for thermistors with higher power ratings, see the notes in the manual • of r signal "1", min. 20.4 V Output voltage 2 Å; Max. 4 Å, see additional description in manual • of or signal "1" partiable range, min. 10 mÅ • for signal "1" partiable range, max. 4 Å; note derating data in the manual • for signal "1" partiable range, max. 4 Å; note derating data in the manual • for signal "0" residual current, max. 3 mÅ Output delay with resistive load 9 ms; 1 AC cycles • "1" to "1, max. 40 ms; 2 AC cycles • "1" to "1, max. 40 ms; 2 AC cycles • "1" to "0, max. 20 ms; 1 AC cycle Parallel switching of two outputs 9 ms; 1 AC cycle • for logic links No • for redundant control of a load Yes • with inductive load (acc. to IEC 60047-5-1, AC15), max. 10 H2; Applies to DQ mode; limited by line frequency in PC mode • our amp load, max. 11 H2; Applies to DQ mode; limited by line frequency in PC mode • our and plad, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A • our angle load, max. 2 A; A see additional description in manual		
• with inductive load, max. 2 A • on lamp load, max. 100 W; Tungsten rating in accordance with UL; for thermistors with higher power ratings, see the notes in the manual Output voltage 20.4 V Output voltage 2 A • for signal "1" rated value 2 A • for signal "1" reminsible range, max. 4 A note derating data in the manual • for signal "1" permissible range, max. 3 mA Output delse with resistive load 2 ms; 1 AC cycles • "0" to "1", max. 20 ms; 1 AC cycle • "0" to "1", max. 20 ms; 1 AC cycle • "0" to "1", max. 20 ms; 1 AC cycle • For logic links No • for logic links No • for logic links No • for upraing No • for upraing No • of no lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • our lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • our lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • our lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • our lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode <td></td> <td>2 A: Max. 4 A. see additional description in manual</td>		2 A: Max. 4 A. see additional description in manual
• on lamp load, max. 100 W; Tungsten rating is a coordance with UL; for thermistors with higher power ratings, see the notes in the manual Output voltage 20.4 V • for signal "1" nin. 20.4 V Output output voltage 2 A • for signal "1" permissible range, min. 10 mA • for signal "1" permissible range, min. 3 mA Output delay with resistive load 4 A: note derating data in the manual • for or signal "0" resultse load 3 mA Output delay with resistive load 40 ms; 2 AC cycles • "1" to "1", max. 40 ms; 2 AC cycles • "1" to "0", max. 20 ms; 1 AC cycle Parallel switching of two outputs 56 or regundant control of a load • for logic links No • for logic links No • for regundant control of a load Yes Switching frequency 10 Hz: Applies to DQ mode; limited by line frequency in PC mode • with inclusive load (acc: to IEC 60047-5-1, AC15), max. 10 Hz: Applies to DQ mode; limited by line frequency in PC mode • out namp load, max. 1 Hz: Applies to DQ mode; limited by line frequency in PC mode • outputs - up to 40 °C, max. • current per channel, max. 8 A' Applicable for current channels up to 2 A. For current channels • up to 40 °C, max. 8 A' Applicable for current channels up to 2 A. For current chan		
bighter power ratings, see the notes in the manual Output varient 20.4 V Output current 2 A for signal "1" rated value 2 A for signal "1" parmissible range, max. 4 A; note derating data in the manual for signal "1" parmissible range, max. 3 mA Output delay with resistive load 40 ms; 2 AC cycles • "0" to "1", max. 20 ms; 1 AC cycles • "0" to "1", max. 20 ms; 1 AC cycles • To redundant control of a load Yes Statching frequency 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60047-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60047-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • ourment per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per channel, max. 8 A • Current per channel, max. 8 A; Applicable for current channels up to 2 A. For current channels • up to 40 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels • up to 50 °C, max. 6 A; Applicable for current channels up to 2 A.		
• for signal *1*, min. 20.4 V Output current • for signal *1* rated value 2 A • for signal *1* permissible range, max. 4 A, note derating data in the manual • for signal *1* permissible range, max. 3 mA • Output delay with resistive load • (b' to *1', max. • 'D' to *1', max. 2 max. • 'D' to *1', max. 20 ms; 2 AC cycles • 'D' to *1', max. 20 ms; 1 AC cycle Parallel switching of two outputs • • for logic links No • for uprating No • or to edundant control of a load Yes Switching frequency • • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • outrent per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per channel, max. 2 A; Max. 4 A, note derating data in the manual • Current per channel, max. 8 A • Current per channel, max. 8 A' Applicable for current channels up to 2 A. For current channels • up to 40 °C, max. 8 A' Applicable for current channels up to 2 A. For current channels • up to 50 °C, max. 8 A' Applicable for current channels up to 2 A. • up to 70 °C, max. 6 A' Applicable for current channels up to 2 A. • up to 70 °C, max.		
Output current 2 A • for signal "1" permissible range, min. 10 mA • for signal "1" permissible range, max. 4 A; note derating data in the manual • for signal "0" residual current, max. 3 mA Output delay with resistive load 40 ms; 2 AC cycles • "0" to "1", max. 40 ms; 2 AC cycles • "1" to "0", max. 20 ms; 1 AC cycle Parallel switching of two outputs • • for logic links No • for logic links No • for logic links No • with resistive load, max. 10 H2; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc: to IEC 60947-5-1, AC15), max. 10 H2; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc: to Rescence and the applies to DQ mode; limited by line frequency in PC mode 10 H2; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc: to Rescence and the applies to DQ mode; limited by line frequency in PC mode 10 H2; Applies to DQ mode; limited by line frequency in PC mode • on Iamp load, max. 1 H2; Applies to DQ mode; limited by line frequency in PC mode 10 H2; Applies to DQ mode; limited by line frequency in PC mode • on lamp load, max. 2 A;		
• for signal "1" rated value 2 A • for signal "1" permissible range, min. 10 mA • for signal "0" permissible range, max. 4 A; note derating data in the manual • for or signal "0" residual current, max. 3 mA Output delay with resistive load • "0" to "1", max. • "0" to "1", max. 40 ms; 2 AC cycles • "1" to "0", max. 20 ms; 1 AC cycle Parallel switching of two outputs • • for redundant control of a load Yes Switching frequency • • with resistive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • on lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • Current per channel, max. 2 A: Max. 4 A, see additional description in manual • Current per module, max. 8 A: Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 8 A: Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 6 A: Applicable for current channels u	5	20.4 V
• for signal "1" permissible range, min. 10 mA • for signal "1" permissible range, max. 4 A; note derating data in the manual • for signal "0" residual current, max. 3 mA Output delay with resistive load 40 ms; 2 AC cycles • "0" for "1", max. 20 ms; 1 AC cycles • "1" to "0", max. 20 ms; 1 AC cycles • for logic links No • for cyclic links No • for region links No • for region links No • for region links No • with inductive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • on lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A • Total current of the outputs (per module) Installation - up to 60 "C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4, note derating data in the manual - up to 60 "C, max. 8 A; Applicable for current channels up to 2 A. Cor current channels between 2 A a		
• for signal "1" permissible range, max. 4 A; note derating data in the manual or signal "0" residual current, max. • Output delay with resistive load • "0" to "1", max. 40 ms; 2 AC cycles • "1" to "0", max. 20 ms; 1 AC cycle Parallel switching of two outputs No • for togic links No • for regundant control of a load Yes Switching frequency 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • output per channel, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per channel, max. 8 A • Output devidues - up to 40 °C, max. • up to 40 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 50 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max	-	
• for signal "0" residual current, max. 3 mA Output delay with closed 40 ms; 2 AC cycles • "0" to "1", max. 20 ms; 1 AC cycle Parallel switching of two outputs 6 for logic links • for logic links No • or redundant control of a load Yes Switching frequency 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with resistive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • or lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • Output for the outputs		
Output delay with resistive load 40 ms; 2 AC cycles • "1" to "1", max. 40 ms; 2 AC cycles 20 ms; 1 AC cycle Parallel switching of two outputs • for logic links No • for redundant control of a load Yes Switching frequency 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with resistive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • ourrent per module, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • Current per module, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A Total current of the outputs (ger module) • horizontal installation 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 50 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 1000 m • bielded, max. 1000 m • up to 50 °C, max. 1000 m • bielded, max. 1000 m		-
• '0' to '1'', max, 40 ms; 2 AC cycles • '1' to '0', max, 20 ms; 1 AC cycle Parallel switching of two outputs • for logic links No • for logic links No • for logic links No • for dedundant control of a load Yes Switching frequency 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • on lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • Our ent per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A Total current of the outputs (per module) 10 horizontal installation - up to 50 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 5		3 mA
• "1" to "0", max. 20 ms; 1 AC cycle Paratlel switching of two outputs • for logic links No • for orgic links No • for redundant control of a load Yes Switching frequency • • with resistive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • on lamp load, max. 11 Hz; Applies to DQ mode; limited by line frequency in PC mode Total current of the outputs • • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A Total current of the outputs (per module) • • output and installation • up to 40 °C, max. 8 A: Applicable for current channels up to 2 A. For current channels - up to 50 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. <t< td=""><td></td><td></td></t<>		
Parallel switching of two outputs No • for logic links No • for upraining No • for redundant control of a load Yes Switching frequency 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • on lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • outputs Current of the outputs • Current of the outputs (per module) A horizontal installation - up to 40 °C, max. - up to 50 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 1000 m • shielded, max. <td></td> <td></td>		
• for logic links No • for uprating No • for uprating No • or redundant control of a load Yes Switching frequency 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A • Total current of the outputs (per module) - horizontal installation - - up to 40 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 1000 m		20 ms; 1 AC cycle
 for uprating No for redundant control of a load Yes Switching frequency with resistive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 2 A; Max. 4 A, see additional description in manual Current per channel, max. 2 A; Max. 4 A, see additional description in manual Current per module, max. 8 A Total current of the outputs (per module) horizontal installation up to 40 °C, max. pu to 40 °C, max. A, applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual A, Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual up to 70 °C, max. A, Applicable for current channels up to 2 A. Bajnostic function Yes Substitute values connectable Yes Diagnostic alarm Yes Diagnostic information readable Yes Diagnostic information readable Yes Diagnostic information readable Yes Diagnostic information readable Yes 	Parallel switching of two outputs	
• for redundant control of a load Yes Switching frequency • • with resistive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • or name load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A Total current of the outputs (per module) • horizontal installation - - up to 50 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 2 A; Applicable for current channels up to 2 A. Cable length 1000 m • shielded, max. 600 m Interrupts/diagnostics/status information Yes Diagnosti	 for logic links 	No
Switching frequency • with resistive load, max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • with inductive load (acc. to IEC 60947-5-1, AC15), max. 10 Hz; Applies to DQ mode; limited by line frequency in PC mode • on lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode Total current of the outputs 2 A; Max. 4 A, see additional description in manual • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A Total current of the outputs (per module) • horizontal installation - - up to 40 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. - up to 70 °C, max. 1000 m - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A Cable length - - up to 70 °C, max. 1000 m • s	 for uprating 	No
 with resistive load, max. with inductive load (acc. to IEC 60947-5-1, AC15), max. on lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 10 Hz; Applies to DQ mode; limited by line frequency in PC mode 11 Hz; Applies to DQ mode; limited by line frequency in PC mode 12; Applies to DQ mode; limited by line frequency in PC mode 12; Applies to DQ mode; limited by line frequency in PC mode 12; Applies to DQ mode; limited by line frequency in PC mode 12; Applies to DQ mode; limited by line frequency in PC mode 12; Applies to DQ mode; limited by line frequency in PC mode 12; Applies to DQ mode; limited by line frequency in PC mode 12; Applies to DQ mode; limited by line frequency in PC mode 12; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 14; Applies to DQ mode; limited by line frequency in PC mode 15, Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 24; Applicable for current channels up to 2 A 24; Applicable for current	 for redundant control of a load 	Yes
 with inductive load (acc. to IEC 60947-5-1, AC15), max. on lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode Courrent of the outputs Current per channel, max. A; Max. 4 A, see additional description in manual Current of the outputs (per module) horizontal installation - up to 40 °C, max. - up to 40 °C, max. - up to 50 °C, max. - up to 60 °C, max. - up to 60 °C, max. - up to 70 °C, max. - between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. - up to 70 °C, max. - between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. - up to 70 °C, max. - between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. - between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. - between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. - between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. - p to 70 °C, max. - between 2 A and 4 A, note derating data in the manual - between 2 A and 4 A, note derating data in the manual - with of °C, max. - between 2 A and 4 A, note derating data in the manual - with of °C, max. - between 2 A and 4 A, note derating data in the manual - with of °C, max. - between 2 A and 4 A, note derating data in the manual - with of °C, max. - between 2 A and 4 A, note derating data in the manual - with of °C, max. - between 2 A and 4 A, note derating data in the m	Switching frequency	
max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode Total current of the outputs 2 A; Max. 4 A, see additional description in manual • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current of the outputs (per module) 8 A horizontal installation - up to 40 °C, max. - up to 50 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels up to 2 A. For current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels up to 2 M. - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels up to 2 M. - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. - up to 70 °C, max. 1 000 m - up to 70 °C, max. 1 000 m - up to 70 °C, max. 1 000 m - biagnostics function Yes Diagnostic alarm <	 with resistive load, max. 	
• on lamp load, max. 1 Hz; Applies to DQ mode; limited by line frequency in PC mode Total current of the outputs 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A Total current of the outputs (per module) 8 A horizontal installation 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 40 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels up to 2 M. Cable length - - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels up to 2 M. Diagnostics function Yes Substitute values connectable Yes Diagnostic function Yes Diagnostic information readable Yes Monitoring the supply voltage <td></td> <td>10 Hz; Applies to DQ mode; limited by line frequency in PC mode</td>		10 Hz; Applies to DQ mode; limited by line frequency in PC mode
Total current of the outputs 2 A; Max. 4 A, see additional description in manual • Current per channel, max. 2 A; Max. 4 A, see additional description in manual • Current per module, max. 8 A Total current of the outputs (per module) brizzontal installation - up to 40 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels - up to 50 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels - up to 60 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels - up to 60 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A - up to 70 °C, max. 1 000 m • unshielded, max. 1 000 m • shielded, max. 1 000 m • Substitute values connectable Yes Olagnostic sfunction Yes • Diagnostic information readable Yes • Diagnostic information readable <td< td=""><td></td><td>4 Line Applies to DO good as limited by line for success in DO good a</td></td<>		4 Line Applies to DO good as limited by line for success in DO good a
Current per channel, max. 2 A; Max. 4 A, see additional description in manual Current per module, max. 8 A Total current of the outputs (per module) horizontal installation - up to 40 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 50 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A Cable length shielded, max. 1000 m unshielded, max. 1000 m bignostics/status information Diagnostic function Yes Substitute values connectable Yes Alarms Diagnostic information readable Yes Wire-break Yes; channel by channel Yes Wire-break Yes; channel by channel Short-circuit No Group error Yes		THZ, Applies to DQ mode, inflited by line frequency in PC mode
Current per module, max. 8 A Total current of the outputs (per module) horizontal installation - up to 40 °C, max. 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 50 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. 4 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A Cable length shielded, max. 1000 m output to 2 A Cable length ves biagnostics function Yes Juagnostic alarm Ves Diagnostic alarm Yes Diagnostic information readable Yes Wire-break Wire-break Wire-break Yes; channel by channel No Group error Yes		2 A: Max 4 A see additional description in manual
Total current of the outputs (per module) horizontal installation - up to 40 °C, max. - up to 50 °C, max. - up to 50 °C, max. 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 60 °C, max. - up to 70 °C, max. - up to 70 °C, max. - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual - up to 70 °C, max. 2 A; Applicable for current channels up to 2 A. Solution 2 A; Applicable for current channels up to 2 A. Poing 70 °C, max. 2 A; Applicable for current channels up to 2 A. Cable length • shielded, max. • shielded, max. 600 m Interrupts/diagnostics/status information Ves Substitute values connectable Yes • Diagnostic alarm Yes • Diagnostic information readable Yes • Monitoring the su		
horizontal installation 8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual		δA
up to 40 °C, max.8 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual 6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual 	· · · · · · · · · · · · · · · · · · ·	
between 2 A and 4 A, note derating data in the manual up to 50 °C, max.6 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual up to 60 °C, max.4 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual up to 70 °C, max.2 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual up to 70 °C, max.2 A; Applicable for current channels up to 2 A.Cable length1000 m• unshielded, max.600 m• unshielded, max.600 mInterrupts/diagnostics/status informationDiagnostics function Substitute values connectableYesAlarms• Diagnostic alarmYes• Diagnostic information readable • Monitoring the supply voltageYes• Wire-break • Wire-breakYes; channel by channel · Yes; channel by channel• Short-circuit • Group errorNo		8 A: Applicable for current channels up to 2 A. For current channels
between 2 A and 4 A, note derating data in the manual up to 60 °C, max.4 A; Applicable for current channels up to 2 A. For current channels between 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 2 A and 4 A, note derating data in the manual 4 A; Applicable for current channels up to 2 A.Cable length2 A; Applicable for current channels up to 2 A• shielded, max.1 000 m• unshielded, max.1 000 m• unshielded, max.600 mInterrupts/diagnostics/status informationYesDiagnostics functionYes• Diagnostic alarmYes• Diagnostic alarmYes• Diagnostic information readableYes• Monitoring the supply voltageYes; channel by channel• Short-circuitNo• Group errorYes		between 2 A and 4 A, note derating data in the manual
between 2 A and 4 A, note derating data in the manual 2 A; Applicable for current channels up to 2 ACable length2 A; Applicable for current channels up to 2 A• shielded, max.1 000 m• unshielded, max.600 mInterrupts/diagnostics/status informationYesDiagnostics function Substitute values connectableYes• Diagnostic alarmYes• Diagnostic alarmYesDiagnostic information readableYes• Diagnostic information readableYes• Onitoring the supply voltageYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes	— up to 50 °C, max.	
Cable length• shielded, max.1 000 m• unshielded, max.600 mInterrupts/diagnostics/status informationDiagnostics functionYesSubstitute values connectableYesAlarms-• Diagnostic alarmYesDiagnostic information readableYes• Diagnostic information readableYes• Monitoring the supply voltageYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes	— up to 60 °C, max.	
Cable length• shielded, max.1 000 m• unshielded, max.600 mInterrupts/diagnostics/status informationDiagnostics functionYesSubstitute values connectableYesAlarms-• Diagnostic alarmYesDiagnostic information readableYes• Diagnostic information readableYes• Monitoring the supply voltageYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes	— up to 70 °C, max.	•
• unshielded, max.600 mInterrupts/diagnostics/status informationDiagnostics functionYesSubstitute values connectableYesAlarmsYes• Diagnostic alarmYesDiagnostic information readableYes• Diagnostic information readableYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes	Cable length	
Interrupts/diagnostics/status information Diagnostics function Yes Substitute values connectable Yes Alarms Yes • Diagnostic alarm Yes Diagnoses Yes • Diagnostic information readable Yes • Monitoring the supply voltage Yes • Wire-break Yes; channel by channel • Short-circuit No • Group error Yes	• shielded, max.	1 000 m
Diagnostics function Yes Substitute values connectable Yes Alarms	• unshielded, max.	600 m
Diagnostics function Yes Substitute values connectable Yes Alarms	Interrupts/diagnostics/status information	
Substitute values connectableYesAlarmsYes• Diagnostic alarmYesDiagnosesYes• Diagnostic information readableYes• Monitoring the supply voltageYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes		Yes
Alarms• Diagnostic alarmYesDiagnoses• Diagnostic information readableYes• Monitoring the supply voltageYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes	-	
• Diagnostic alarmYesDiagnoses• Diagnostic information readableYes• Monitoring the supply voltageYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes		
Diagnoses Diagnostic information readable Yes Monitoring the supply voltage Yes; channel by channel Short-circuit Short-circuit Group error Yes 		Yes
• Diagnostic information readableYes• Monitoring the supply voltageYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes		
• Monitoring the supply voltageYes• Wire-breakYes; channel by channel• Short-circuitNo• Group errorYes	-	Yes
• Wire-break Yes; channel by channel • Short-circuit No • Group error Yes	-	
Short-circuit No Group error Yes		
Group error Yes		
· · · · · · · · · · · · · · · · · · ·		

Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
 Channel status display for channel diagnostics 	Yes; green LED Yes; red Fn LED
for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
between the channels	No
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	No
Isolation	
Isolation tested with	2 545 V DC/2 s (routine test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation horizontal installation, min. 	-40 °C; = Tmin (incl. condensation/frost)
 horizontal installation, max. 	$70 ^{\circ}\text{C}$; = Tmax
Altitude during operation relating to sea level	10 0, IIIux
Installation altitude above sea level, max.	2 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
altitude	
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
 — to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
 Against mechanical environmental conditions acc. to EN 60721-3-3 	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Use on ships/at sea	Very Close CD2 model fungel and demotester (, , , , , , , , , , , , , , , , , ,
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
 Against mechanical environmental conditions acc. to EN 60721-3-6 	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193- 6AA00-0AA0)
Usage in industrial process technology	Very Clear 2 (evaluating trichters the level)
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 Remark 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, 	Yes; Discoloration of coating possible during service life
Amendment 7	
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
Dimensions	

last modified:	9/27/2021 🖸	
Weight, approx.	50 g	
Weights		
Depth	58 mm	
Height Depth	73 mm	
Width	20 mm	

last modified:

6AG11326FD007CU0 Page 4/4

4/25/2023