## SIEMENS

## Data sheet

## 6ES7136-6DC00-0CA0



SIMATIC DP, electronic module ET 200SP, F-DQ 8x24VDC/0.5A PP HF, 15 mm width, up to PL E (ISO 13849) up to SIL 3 (IEC 61508)

General information	
Product type designation	F-DQ 8x24 V DC/0.5 A PP HF
Firmware version	
FW update possible	Yes
usable BaseUnits	BU type A0
Color code for module-specific color identification plate	CC02
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V14 SP1 with HSP 202
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP4 HF5
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	V2.31
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
power supply according to NEC Class 2 required	No
Input current	
Current consumption (rated value)	75 mA; without load
Current consumption, max.	21 mA; From the backplane bus
output voltage / header	
Rated value (DC)	24 V
Power	
Power available from the backplane bus	70 mW
Power loss	
Power loss, typ.	3 W
Address area	
Address space per module	
Inputs	6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA
Outputs	6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA
Hardware configuration	
Automatic encoding	Yes
Electronic coding element type F	Yes
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	8
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
Response threshold, typ.	Min. 0.7 A

Limitation of inductive shutdown voltage to         Typ39 V           Controlling a digital input         Yes; digital output, according to IEC 61131-2, type 0.5           Switching capacity of the outputs         0.5 A           • on Iamp load, max.         0.5 A           = on Iamp load, max.         2 W           Load resistance range         12 000 Ω           Output voltage         24 V; L+ (0.5 V)           Output voltage         0.5 A           = ori signal *1" rated value         0.5 A, note derating data in the manual           = ori signal *1" rated value         0.5 A, note derating data in the manual           = ori apto fo *0, max.         3 A	On an airsuit dataatian	Na
Contention of a degraph reput of the control of the Control of LCC 01131-2, kyen 0.5 week and be active of the control of the control of the Control of Co	Open-circuit detection	No
Sinching passafty of the acquatsInterference of the acquats• with residue load, max.0.4 A• on lamp load, max.2 W• Coore limit12000 D• Coore limit2 DO D• Order limit0 SA• Order limit0 SA• Order limit0 SA• order limit0 SA• with residue load, max.0 SA• with residue load, max.0 SA, Note derating load in the manual• with residue load, max.0 SA, Note derating loads in the manual• with residue load, max.0 SA, Note derating loads in the manual• Unrest per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA, Note derating loads in the manual• Current per module, max.0 SA<		
• or large load, max.05 Åion large load, max.240Loaderstander mage48 Å Å• upper link48 Å Å• upper link2000 ÅOrtigal 11*, min.241/1 f (0.5 V)Ortigal 11*, min.05 ÅOrtigal 11*, min.05 Å		Yes; digital output, according to IEC 61131-2, type 0.5
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• loger time48 0 outper time• upper time2000 0Output vertue• 0• of signal "1", min.24 VI. L4 (-0.5 V)• Outget current0.5 A• of signal "1" rated value0.5 A• with inductive load, max.0.1 Hz; according to IEC 60847.5 1, DC 13, symmetrical• with inductive load, max.0.1 Hz; according to IEC 60847.5 1, DC 13, symmetrical• with inductive load, max.0.5 A: note derating data in the manual• outrent of the outputs5 A: note derating data in the manual• Current per module, max.3 A: note derating data in the manual• Current per module, max.2 SA• - up to 50 °C, max.2 SA• - up to 50 °C, max.2 SA• - up to 50 °C, max.2 SA• uph to 50 °C, max.100 m• unsheided, max.Yes• Diagonsta functionYes• Pols 50 °C, max.Yes• Pols 50 °C, max.Yes• unsheided, max.100 m• unsheided, max.100 m• unsheided, max.Yes• output to the subject of the subjec	<ul> <li>on lamp load, max.</li> </ul>	2 W
• upger limit12 000 ÅOutput solating- for signal "f. min.24 V: L+ (-0.5 V)Comput content- for signal "f. red value0.5 Å- for signal "f. red value0.5 Å- of signal "f. red value0.5 Å- of redical cornert, max.0.5 Å- with redictive load, max.0.1 Hz, according to IGC 6047-5-1, DC-13, symmetrical- with redictive load, max.0.1 Hz, according to IGC 6047-5-1, DC-13, symmetrical- on lang load, max.0.5 Å note derating data in the manual- on lang load, max.0.5 Å note derating data in the manual- on pot 60 tronouble, max.0.5 Å note derating data in the manual- Our of the outputs (per module)3 Å- on pot 60 tronouble, max.2 Å- on pot 60 tronouble, max.3 Å- on pot 60 tronouble, max.100 m- on p	Load resistance range	
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• los signal ***, nin.24V. L+ (.0.5 V)Output current.• los signal *** red value0.5 A• los signal *** red value0.5 RA• of signal *** red value0.5 RA• of signal *** red value0.5 RA• with indictive load, max.0.8 L*. Symmetrical• with indictive load, max.0.8 L*. Symmetrical• with indictive load, max.0.8 L*. Symmetrical• of namp load, max.0.8 A: note derating data in the manual• Current per channel, max.0.8 A: note derating data in the manual• Current per channel, max.0.8 A: note derating data in the manual• Current per channel, max.0.8 A: note derating data in the manual• Current per module, max.2.4 A• outp 0.60 °C, max.2.A- up 0.60 °C, max.2.A• up 0.60 °C, max.2.A• up 0.60 °C, max.100 m• unshided, max.100 m<	• upper limit	12 000 Ω
Output convent         0.5 A           I-for signal "1" readvalue         0.5 A           Smitching frequency         0.5 mA           Switching frequency         0.5 mA           with resistive load, max.         0.1 Hz; symmetrical           with resistive load, max.         0.1 Hz; symmetrical           with resistive load, max.         0.1 Hz; symmetrical           ion lang load, max.         10 Hz; Symmetrical           ion lang load, max.         10 Hz; Symmetrical           Current for homel, max.         3 A: note derating data in the manual           Current for homel, max.         3 A: note derating data in the manual           Current for wordule, max.         3 A           - up to 60 °C, max.         2 S A           - up to 60 °C, max.         2 S A           - up to 60 °C, max.         2 A           vertical installation         100 m           - up to 50 °C, max.         2 A           Cable length         100 m           - up to 50 °C, max.         2 S A           - up to 50 °C, max.         2 S A           - sheleda, max.         100 m           - sheleda, max.         100 m           - sheleda, max.         100 m           - sheleda, max.         100 m <tr< td=""><td>Output voltage</td><td></td></tr<>	Output voltage	
• for signal "0" residual current, max.0.5 mA• of misgnal "0" residual current, max.0.5 mA• with indictive load, max.30 Hz: Symmetrical• with indictive load, max.1.14: according to IEC 60347-5-1, DC-13, symmetrical• with indictive load, max.2.14: Symmetrical• of namp load, max.1.01: Symmetrical• of namp load, max.0.5 A: note derating data in the manual• Outment per channel, max.3.6 A: note derating data in the manual• Current per module, max.3.6 A: note derating data in the manual• Current per module, max.3.6 A: note derating data in the manual• Out of 0.7, max.3.6 A• up to 50 °C, max.2.5 A• up to 50 °C, max.2.6 A• up to 50 °C, max.2.6 A• up to 50 °C, max.100 m• up to 50 °C, max.100 m• unshielded, max.100 m• Uns	<ul> <li>for signal "1", min.</li> </ul>	24 V; L+ (-0.5 V)
• for signal "0" residual current, max.0.5 mASwitching frequency• with residual load, max.0.1 Hz. scording to EC 80947-5-1, DC-13, symmetrical• with residue load, max.0.1 Hz. scording to EC 80947-5-1, DC-13, symmetrical• on lamp load, max.10 Hz. Symmetrical• Courrent per channel, max.0.5 A, note derating data in the manual• Courrent per channel, max.0.5 A, note derating data in the manual• Courrent per channel, max.0.5 A, note derating data in the manual• Courrent per module, max.3 A• outp to 50 °C, max.2.5 A up to 50 °C, max.3 A• Stalledido, max.100 m• unshelded, max.100 m• unst	Output current	
Switching frequency              vith inductive lead, max.             0.1 Hz; according to IEC 60947-5-1, DC-13, symmetrical             vith inductive lead, max.             2.1 Hz; Symmetrical             0.1 Hz; according to IEC 60947-5-1, DC-13, symmetrical             vith inductive lead, max.             2.1 Hz; Symmetrical             2.0 rand pload, max.             2.1 Hz; Symmetrical             0.1 Hz; according to IEC 60947-5-1, DC-13, symmetrical             vith inductive lead, max.             2.1 Hz; Symmetrical             2.0 rand pload, max.             2.1 Hz; Symmetrical             vith inductive lead, max.             2.5 A; note derating data in the manual             Current per module, max.             3.4 A             - up to 50 °C, max.             2.6 A             vertical installation             - up to 50 °C, max.             2.6 A             vertical installation             - up to 50 °C, max.             2.6 A             vertical installation             - up to 50 °C, max.             2.6 A             vertical installation             - up to 50 °C, max.             2.6 A             vertical installation             - up to 50 °C, max.             100 m             vertical installation             - up to 50 °C, max.             2.6 A             vertical installation             vertical installation             vertical installation             vertical max	<ul> <li>for signal "1" rated value</li> </ul>	0.5 A
with resistive load, max.30 Hz: Symmetricalwith reductive load, max.11 Hz: according to EC 60947.51, DC-13, symmetricalo lamp load, max.10 Hz: Symmetricalo lamp load, max.10 Hz: Symmetricalc Current per channel, max.0.5 A: note derating data in the manualCurrent per module, max.0.5 A: note derating data in the manualCurrent per module, max.3.A: note derating data in the manualTotal current of the outputs2.5 A- up to 50 °C, max.2.5 A- up to 50 °C, max.2.5 A- up to 50 °C, max.2.4 ACeteleratif2.4 A- up to 50 °C, max.2.6 A- up to 50 °C, max.100 m- up to 50 °C, max.100 m- unscheided, max.100 m- n	<ul> <li>for signal "0" residual current, max.</li> </ul>	0.5 mA
with inductive load, max.0.1 Hz; according to IEC 60947-5-1, DC-13, symmetrical• with capacitive load, max.2.Hz; Symmetrical• on lamp load, max.3.5 A; note derating data in the manual• Current per homanel, max.3.5 A; note derating data in the manual• Current per homanel, max.3.4; note derating data in the manual• Current per homanel, max.3.4; note derating data in the manual• Current per homanel, max.3.4; note derating data in the manual• Current per homanel, max.3.4; note derating data in the manual• Up to 40 °C; max.2.5 A;- up to 60 °C; max.2.4• up to 60 °C; max.1.00 m• unshelded, max.100 m• unshel	Switching frequency	
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• with capacitive load, max.2 Hz: Symmetrical• on lamp load, max.10 Hz: Symmetrical• Current per channel, max.0.5 A. note derating data in the manual• Current per module, max.3.4• Current per module, max.3.4- up to 40 °C, max.3.4- up to 60 °C, max.2.5 A- up to 60 °C, max.2.6 A- up to 60 °C, max.2.6 A- up to 60 °C, max.2.6 A- up to 50 °C, max.2.6 A- up to 50 °C, max.100 m• ushelded, max.100 m </td <td>• with inductive load, max.</td> <td></td>	• with inductive load, max.	
• on lamp load, max.10 Hz; SymmetricalTotal current of the outputs5.5.4, note derating data in the manual• Current per rhannel, max.3.6. note derating data in the manualTotal current of the outputs (per module)International installation3.4. note derating data in the manual- up to 40 °C, max.3.4 up to 60 °C, max.2.5. A up to 60 °C, max.2.4.Cable length2.4 up to 60 °C, max.100 m• unshelded, max.No• Diagnostic sfunctionYes• Diagnostic sfunctionYes• Diagnostic functionYes (preen LED• ENROR LEDYes; (per LED• ENROR LEDYes; (per LED• ENROR LEDYes; (per LED• Channel status displayYes; (per LED• Channel status displayYes; (per LED• Channel diagnosticsYes; (per LED• Enterlist separation channelsNo• between the channels and backpiane busYes• between the channels an		
Total current of the outputs       0.5 A, note derating data in the manual         • Current per notable, max.       0.5 A, note derating data in the manual         • Current per notable, max.       3 A         • up to 40 °C, max.       3 A         - up to 50 °C, max.       2 A         • up to 50 °C, max.       100 m         • shielded, max.       100 m         • up to 50 °C, max.       100 m	-	
• Current per channel, max.0.5 A; note derating data in the manual• Current per module, max.3 A; note derating data in the manualTotal current of the outputs (per module)• horizontal installation		, synnioursen
• Current of the outputs (per module) Total current of the outputs (per module) horizontal installation - up to 40 °C, max. 3 A - up to 50 °C, max. 2.5 A - up to 60 °C, max. 2.5 A - up to 60 °C, max. 2.6 A vertical installation - up to 50 °C, max. 3 A Cable length vertical installation - up to 50 °C, max. 3 A Cable length - up to 50 °C, max. 3 A - up to 50 °C, max. 3 A - up to 50 °C, max. 3 A - up to 50 °C, max. 4 A - up to famile up op to fam fue to 50 °C, fam. 4 C - up t	·	0.5 A: note derating data in the manual
Total current of the outputs (per module)           horizontal installation	-	· · · · · · · · · · · · · · · · · · ·
horizontal installationup to 40°C, max.3 Aup to 60°C, max.2.5 Aup to 60°C, max.2 ACable length	· · · · · · · · · · · · · · · · · · ·	
up to 40 °C, max.     3 Å      up to 50 °C, max.     2.5 Å      up to 50 °C, max.     2 Å       vertical installation    up to 50 °C, max.      up to 50 °C, max.     2 Å       Cable length     100 m      inshielded, max.     100 m       Substitute values connectable     No       Alarma		
-up to 60 °C, max.       2 A         vertical installation       2         -up to 50 °C, max.       2 A         Cable length       100 m         • unshielded, max.       100 m         • unshielded, max.       100 m         • unshielded, max.       100 m         Diagnostics function       Yes         Substitute values connectable       No         Alarms       • Diagnostics fairm         • Diagnostics fairm       Yes; green LED         • RUN LED       Yes; green LED         • RUN LED       Yes; green LED         • Channel status display       Yes; green LED         • for ordname diagnostics       Yes; green LED         • for module diagnostics       Yes; green VR LED         • between the channels       No         • between the channels       No         • between the channels       No         • between the channels and the power supply of the electronics       No         between the channels and backplane bus       Yes		
vertical installation         2 A	•	
up to 50 °C, max.         2 A           Cable length        up to 50 °C, max.         100 m           • shielded, max.         100 m         -unshielded, max.         100 m           • unshielded, max.         100 m         -up to 50 °C, max.         100 m           • unshielded, max.         100 m         -up to 50 °C, max.         100 m           • unshielded, max.         100 m         -up to 50 °C, max.         100 m           • unshielded, max.         100 m         -up to 50 °C, max.         100 m           • unshielded, max.         100 m         -up to 50 °C, max.         100 m           • to sup to 50 °C, max.         100 m         -up to 50 °C, max.         100 m           • to rup to 50 °C, max.         100 m         No         100 m           • to to to 50 °C, max.         Yes         100 m         100 m           • to to to 50 °C, max.         Yes         green LED         Yes; red LED         Yes; red LED         100 m         100 m         100 m         100 m           • to thame id lagnostics         Yes; red LED         Yes; red LED         100 m         100 m <td></td> <td>2 A</td>		2 A
Cable length         100 m           • inshielded, max.         100 m           • unshielded, max.         100 m           Diagnostics function         100 m           Diagnostics function         Yes           Diagnostics function         Yes           Substitue values connectable         No           Alarms         -           • Diagnostic alarm         Yes           • Diagnostic sindication LED         Yes; green LED           • ERROR LED         Yes; green PWR LED           • Channel status display         Yes; green PWR LED           • Or of namel diagnostics         Yes; green PWR LED           • for module diagnostics         Yes; green PWR LED           • for module diagnostics         Yes; green LED           • between the channels         No           • between the channels         No           • between the channels         No           • between the channels and backplane bus         Yes           • between the channels         No      <		
• shielded, max.100 m• unshielded, max.100 mterupts/diagnostics/status informationUragnostics functionYesDiagnostics functionNoAlarms• Diagnostics alarmYes• Diagnostics indication LED• RUN LEDYes; green LED• RROR LEDYes; green PUR LED• Channel status displayYes; green PUR LED• Or ondamel diagnosticsYes; green PUR LED• for dnamel diagnosticsYes; green PUR LED• for module diagnosticsYes; green PUR LED• for module diagnosticsYes; green ICD• between the channelsNo• between the channels and backplane busYes• between the channelsNo• between the channels and the power supply of the electronicsNo• between the channels and the power supply of the electronicsYes• between the channels and the power supply of the electronicsNo• between the channels and the power supply of the electronicsYes• between the channels and the power supply of the electronicsYes• between the channels and the power supply of the electronicsYes• between the channels and the power supply of the electronicsYes• between the channels and the power supply of the electronicsYes• between the channels and the power supply of the electronicsYes• between the channels and the power supply of the electronicsYes• between the channels and the power supply of the electronicsYes <td>— up to 50 °C, max.</td> <td>2 A</td>	— up to 50 °C, max.	2 A
• unshielded, max. 100 m terrupts/diagnostics/status information terrupts/diagnostics/status information lagnostics function Substitute values connectable Substitute values	Cable length	
Iterrupts/diagnostics/status information         Yes           Diagnostics function         No           Atarms         • Diagnostic alarm         Yes           • Diagnostic alarm         Yes           Diagnostic alarm         Yes           Diagnostic alarm         Yes           Diagnostic alarm         Yes           Diagnostic alarm         Yes; green LED           • RUN LED         Yes; green NPW LED           • Channel status display         Yes; green PWR LED           • Channel status display         Yes; green LED           • for channel diagnostics         Yes; green LED           • for channel diagnostics         Yes; green ILED           • for channel diagnostics         Yes; green/red DIAG LED           • for module diagnostics         Yes; green/red DIAG LED           • for channel sand backplane bus         Yes           • between the channels         No           • between the channels and backplane bus         Yes           • between the channels and the power supply of the electronics         No           • between the channels and the power supply of the electronics         No           • balatoin tested with         707 V DC (type test)           tandards, approvals, certificates         Yes           Suitab	<ul> <li>shielded, max.</li> </ul>	100 m
Diagnostics function     Yes       Substitute values connectable     No       Alarms	<ul> <li>unshielded, max.</li> </ul>	100 m
Substitute values connectable         No           Alarms         Ves           Diagnostic alarm         Yes           Diagnostic alarm         Yes           Diagnostic alarm         Yes           Polagnostic alagnostics         Yes           Polagnostics         Yes           Polagnostics         Yes           Polential separation channels         No           Polential separation channels         No           Polential separation channels         No           Polential separation channels and backplane bus         Yes           Polential separation channels         No           Polential separation channels         No           Polation         Yes           Solitation tested with         707 V DC (type test)           tandards, approvals, cortificates         Yes <td>Interrupts/diagnostics/status information</td> <td></td>	Interrupts/diagnostics/status information	
Alarms       Yes         Diagnostics indication LED       Yes; green LED         • ERROR LED       Yes; green LED         • Monitoring of the supply voltage (PWR-LED)       Yes; green PWR LED         • Channel status display       Yes; green PWR LED         • for channel diagnostics       Yes; green LED         • for channel diagnostics       Yes; green LED         • for module diagnostics       Yes; green/red DIAG LED         • between the channels       No         • between the channels       Yes         • between the channels and backplane bus       Yes         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • bottween the channels and the power supply of the electronics       Yes         • bottween the channels and the power supply of the electronics       No         • bottween the channels and the power supply of the electronics       Yes         • clatal a. approvals. cortificates       Yes <t< td=""><td>Diagnostics function</td><td>Yes</td></t<>	Diagnostics function	Yes
• Diagnostic alarmYesDiagnostics indication LED• RUN LEDYes; green LED• RROR LEDYes; red LED• Monitoring of the supply voltage (PWR-LED)Yes; green PWR LED• Channel status displayYes; green LED• Channel diagnosticsYes; red LED• for channel diagnosticsYes; green LED• for module diagnosticsYes; green/red DIAG LED• for module diagnosticsYes; green/red DIAG LED• for module diagnosticsYes; green/red DIAG LED• between the channelsNo• between the channels and backplane busYes• between the channels and backplane busYes• between the channels and backplane busNo• between the channels, and the power supply of the electronicsNo• balation tested with707 V DC (type test)Isolation tested withYesSultable for safety functionsYesHighest safety class achievable in safety modeYes• Performance level according to ISO 13849-1PLe• Cattegory according to ISO 13849-1Sult a• Sult ac. to IEC 61508Sult a• Probability of failure (for service life of 20 years and repair to 100 hours)• Low demand mode: PFDay in accordance with< 6.00E-05	Substitute values connectable	No
Diagnostics indication LED       Yes; green LED         • RUN LED       Yes; red LED         • ERROR LED       Yes; red LED         • Monitoring of the supply voltage (PWR-LED)       Yes; green PWR LED         • Channel status display       Yes; green LED         • for channel diagnostics       Yes; green LED         • for channel diagnostics       Yes; green LED         • for module diagnostics       Yes; green/red DIAG LED         otential separation       Ves; green/red DIAG LED         otential separation channels       No         • between the channels and backplane bus       Yes         • between the channels and backplane bus       Yes         • between the channels and the power supply of the electronics       No         volation       Yor V DC (type test)         tandards, approvals, certificates       Yes         Suitable for safety functions       Yes         Highest safety class achievable in safety mode       Yes         • Performance level according to ISO 13849-1       PLe         • Category according to ISO 13849-1       Cat. 4         • Sil. acc. to IEC 61508       Sil. 3         Probability of failure (for service life of 20 years and repair time of 100 hours)       Iou demand mode: PFDag in accordance with         - Low demand mode: PFDag in	Alarms	
• RUN LEDYes; green LED• ERROR LEDYes; red LED• Monitoring of the supply voltage (PWR-LED)Yes; green PWR LED• Channel status displayYes; green LED• for channel diagnosticsYes; red LED• for module diagnosticsYes; green/ted DIAG LED• for module diagnosticsYes; green/ted DIAG LED• otential separationYes• between the channelsNo• between the channels and backplane busYes• between the channels and the power supply of the electronicsNo• between the channels and the power supply of the electronics to the safety functionsYof Y DC (type test)tandards, approvals, certificatesYof Y DC (type test)Suitable for safety functionsYesHighest safety class achievable in safety modeYes• Performance level according to ISO 13849-1PLe• Category according to ISO 13849-1PLe• Sil acc. to IEC 61508Sil 3• Brobability of failure (for service life of 20 years and repair time / TO0 hours)• Low demand mode: PFDarg in accordance with< 6.00E-05	Diagnostic alarm	Yes
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• for channel diagnostics       Yes; red LED         • for module diagnostics       Yes; green/red DIAG LED         otential separation       Potential separation channels         • between the channels       No         • between the channels and backplane bus       Yes         • between the channels and backplane bus       Yes         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • botween the channels and the power supply of the electronics       Yes         • botween the channels and the power supply of the electronics       Yes         • solation       Yes         • clated with       707 V DC (type test)         • fundered y approvals, certificates       Yes         • Category according to ISO 13849-1       PLe <tr< td=""><td></td><td>-</td></tr<>		-
• for module diagnostics       Yes; green/red DIAG LED         otential 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         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         • solation       707 V DC (type test)         tandards, approvals, certificates       Suitable for safety functions         • Suitable for safety functions       Yes         • Performance level according to ISO 13849-1       Cat. 4         • SiL acc. to IEC 61508       SiL 3         • Probability of failure (for service life of 20 years and repair time of 100 hours)         — Low demand mode: PFDavg in accorda		-
otential separation         Potential separation channels         • between the channels         • between the channels and backplane bus         • between the channels and backplane bus         • between the channels and the power supply of the electronics         • between the channels and the power supply of the electronics         • between the channels and the power supply of the electronics         • between the channels and the power supply of the electronics         • between the channels and the power supply of the electronics         • between the channels and the power supply of the electronics         • between the channels and the power supply of the electronics         • between the channels and the power supply of the electronics         • between the channels and the power supply of the electronics         • solation         • Isolation tested with       707 V DC (type test)         tandards, approvals, certificates         Suitable for safety functions       Yes         Highest safety class achievable in safety mode         • Performance level according to ISO 13849-1       PLe         • Category according to ISO 13849-1       Cat. 4         • SIL acc. to IEC 61508       SIL 3         Probability of failure (for service life of 20 years and repair time of 100 hours)       < 6.00E-05		
Potential separation channels       No         • between the channels and backplane bus       Yes         • between the channels and backplane bus       Yes         • between the channels and the power supply of the electronics       No         • between the channels and the power supply of the electronics       No         solation       707 V DC (type test)         tandards, approvals, certificates       Yes         Suitable for safety functions       Yes         Highest safety class achievable in safety mode       Yes         • Performance level according to ISO 13849-1       PLe         • Category according to ISO 13849-1       Cat. 4         • SIL acc. to IEC 61508       SIL 3         Probability of failure (for service life of 20 years and repair time of 100 hours)       T00 hours)         — Low demand mode: PFDavg in accordance with       < 6.00E-05	-	100, gicelilled DIAO LED
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Isolation tested with       707 V DC (type test)         tandards, approvals, certificates       Yes         Suitable for safety functions       Yes         Highest safety class achievable in safety mode       Performance level according to ISO 13849-1         • Performance level according to ISO 13849-1       PLe         • Category according to ISO 13849-1       Cat. 4         • SIL acc. to IEC 61508       SIL 3         Probability of failure (for service life of 20 years and repair time of 100 hours)       of 100 hours)         — Low demand mode: PFDavg in accordance with       < 6.00E-05		
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Suitable for safety functions       Yes         Highest safety class achievable in safety mode       Performance level according to ISO 13849-1         • Performance level according to ISO 13849-1       PLe         • Category according to ISO 13849-1       Cat. 4         • SIL acc. to IEC 61508       SIL 3         Probability of failure (for service life of 20 years and repair time of 100 hours)       - Low demand mode: PFDavg in accordance with		
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Category according to ISO 13849-1     Cat. 4     SIL acc. to IEC 61508     SIL 3  Probability of failure (for service life of 20 years and repair time of 100 hours)     Low demand mode: PFDavg in accordance with < 6.00E-05		
SIL acc. to IEC 61508     SIL 3 Probability of failure (for service life of 20 years and repair time of 100 hours)     Low demand mode: PFDavg in accordance with < 6.00E-05	<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PLe
Probability of failure (for service life of 20 years and repair time of 100 hours) — Low demand mode: PFDavg in accordance with < 6.00E-05	<ul> <li>Category according to ISO 13849-1</li> </ul>	Cat. 4
— Low demand mode: PFDavg in accordance with < 6.00E-05	SIL acc. to IEC 61508	SIL 3
	Probability of failure (for service life of 20 years and repair time	e of 100 hours)
SIL3		< 6.00E-05

- High demand/continuous mode: PFH in accordance with SIL3

< 2.00E-09 1/h

with SIL3	2.00E 00 mi
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	0°0
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	0 °C
<ul> <li>vertical installation, max.</li> </ul>	50 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	4 000 m; with derating
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	48 g

last modified:

8/7/2023 🖸