## SIEMENS

## Data sheet

## 6ES7136-6DC00-0CA0



SIMATIC DP, Electronics module ET 200SP, F-DQ 8XDC 24V0.5A PP, 15 mm width, up to PL E (ISO 13849) up to SIL 3 (IEC 61508)

Product type designation     F-DQ 8x24 V DC/0.5 A PP HF       Firmware version     • FW update possible       version     Yes       usable BaseUnits     BU type A0       Color code for module-specific color identification plate     CO2       Product function     • EXEMPTION       • I&M data     Yes; I&M0 to I&M3       Engineering with     • STEP 7 TA Portal configurable/integrated from version     V14 SP1 with HSP 202       • STEP 7 configurable/integrated from version     V5.5 SP4 HF5       • FROFINET from GSD version/GSD revision     V2.3 1       Supply voltage     24 V       Rated value (DC)     24 V       permissible range, upper limit (DC)     20.4 V       permissible range, upper limit (DC)     20.4 V       permissible range, upper limit (DC)     24.8 V       Reverse polarity protection     Yes       Input current     Current consumption (rated value)       Current consumption, max.     21 mA; From the backplane bus       Output voltage     70 mW       Power loss     90       Power loss     3 W       Address space per module     6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA       • Inputs     6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA       • Outputs     6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA       • Outputs     6 byte; 5 bytes	General information		
• FW update possible         Yes           usable BaseUnits         BU type A0           Color code for module-specific color identification plate         CO2           Product function         CO2           • I&M data         Yes; I&M0 to I&M3           Engineering with         V14 SP1 with HSP 202           • STEP 7 TIA Portal configurable/integrated from version         V5.5 SP4 HF5           • PROFINET from GSD version/GSD revision         V2.31           Supply voltage         Rated value (DC)           Permissible range, lower limit (DC)         20.4 V           permissible range, upper limit (DC)         28.8 V           Reverse polarity protection         Yes           Input current         Current consumption (rated value)           Current consumption, max.         21 mA; From the backplane bus           Output voltage         Power           Power loss         Power loss           Power loss         70 mW           Power loss         3 W           Address space per module         6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA           • Inputs         6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA           Hardware configurable         Yes           • Linputs         6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA           <	Product type designation	F-DQ 8x24 V DC/0.5 A PP HF	
usable BaseUnits     BU type A0       Color code for module-specific color identification plate     CC02       Product function     • (8M data       • (8M data     Yes; (8M0 to (8M3)       Engineering with     V14 SP1 with HSP 202       • STEP 7 TIA Portal configurable/integrated from version     V5.5 SP4 HF5       • STEP 7 configurable/integrated from version     V5.5 SP4 HF5       • PROFINET from GSD version/GSD revision     V2.31       Supply voltage     Rated value (DC)       Permissible range, lower limit (DC)     28.8 V       Reverse polarity protection     Yes       Input current     Current consumption, max.       Current consumption, max.     21 mA; From the backplane bus       Output voltage     Rated value (DC)       Power available from the backplane bus     70 mW       Power loss     Power loss, typ.       Address area     Address gace per module       • Inputs     6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA       • Outputs     6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA       • Outputs     6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA       • Outputs     6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA	Firmware version		
Color code for module-specific color identification plate       CC02         Product function       *         • 1&M data       Yes; 1&M0 to 1&M3         Engineering with       *         • STEP 7 TIA Portal configurable/integrated from version       V14 SP1 with HSP 202         • STEP 7 configurable/integrated from version       V5.5 SP4 HF5         • PROFINET from GSD version/GSD revision       V2.31         Supply voltage       Rated value (DC)         Rated value (DC)       24 V         permissible range, lower limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)         Cutrent consumption, max.       21 mA; From the backplane bus         Output voltage       70 mW         Power loss       70 mW         Power loss, typ.       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Udputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Lectronic coding element type F       Yes         • Power loss       Yes         • Didputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Lectronic coding element type F </td <td>FW update possible</td> <td>Yes</td>	FW update possible	Yes	
Product function <ul> <li>I&amp;M data</li> <li>Yes; I&amp;M0 to I&amp;M3</li> </ul> Engineering with                   • STEP 7 TIA Portal configurable/integrated from version             • STEP 7 configurable/integrated from version             • STEP 7 configurable/integrated from version             • PROFINET from GSD version/GSD revision             V2.31          Supply voltage              Rated value (DC)             24 V          permissible range, lower limit (DC)        28.8 V          Reverse polarity protection        Yes          Input current           Current consumption, max.       21 mA; From the backplane bus          Output voltage           Rated value (DC)        24 V          Power           Power loss            Power loss            Power loss            Power loss            Power loss          Power loss          Power loss          Power loss          Power loss          Power loss          Power loss          Power loss <t< td=""><td>usable BaseUnits</td><td>BU type A0</td></t<>	usable BaseUnits	BU type A0	
• i&M data       Yes; I&M0 to I&M3         Engineering with       •         • STEP 7 TIA Portal configurable/integrated from version       V14 SP1 with HSP 202         • STEP 7 configurable/integrated from version       V5.5 SP4 HF5         • PROFINET from GSD version/GSD revision       V2.31         Supply voltage       Rated value (DC)         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)       75 mA         Current consumption, max.       21 mA; From the backplane bus         Output voltage       Power available from the backplane bus       70 mW         Power loss       Power loss       70 mW         Power loss       3 W       Address space per module         • Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs	Color code for module-specific color identification plate	CC02	
Engineering with       V14 SP1 with HSP 202         • STEP 7 TA Portal configurable/integrated from version       V5.5 SP4 HF5         • PROFINET from GSD version/GSD revision       V2.31         Supply voltage       24 V         Permissible range, lower limit (DC)       20.4 V         permissible range, lower limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption, max.         Current consumption, max.       21 mA; From the backplane bus         Output voltage       75 mA         Rated value (DC)       24 V         Power available from the backplane bus       70 mW         Power loss, typ.       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs	Product function		
• STEP 7 TIA Portal configurable/integrated from version       V14 SP1 with HSP 202         • STEP 7 configurable/integrated from version       V5.5 SP4 HF5         • PROFINET from GSD version/GSD revision       V2.31         Supply voltage       24 V         Rated value (DC)       24 V         permissible range, lower limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       75 mA         Current consumption (rated value)       75 mA         Output voltage       24 V         Power dvalue (DC)       24 V         Power onsumption, max.       21 mA; From the backplane bus         Output voltage       75 mA         Rated value (DC)       24 V         Power loss       70 mW         Power loss       70 mW         Power loss       70 mW         Power loss       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Digital outputs	• I&M data	Yes; I&M0 to I&M3	
version       V5.5 SP4 HF5         • STEP 7 configurable/integrated from version       V2.31         Supply voltage       Rated value (DC)       24 V         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)       75 mA         Current consumption, max.       21 mA; From the backplane bus       Output voltage         Rated value (DC)       24 V       Power available from the backplane bus       70 mW         Power loss       70 mW       Power loss, typ.       3 W         Address area       Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Automatic encoding       Yes         • Electronic coding element type F       Yes         • Electronic coding element type F       Yes         • Electronic coding element type F       Yes         • Digital outputs       8	Engineering with		
• PROFINET from GSD version/GSD revision       V2.31         Supply voltage       Rated value (DC)       24 V         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       75 mA         Current consumption (rated value)       75 mA         Current consumption, max.       21 mA; From the backplane bus         Output voltage       75 mA         Rated value (DC)       24 V         Power       24 V         Power available from the backplane bus       70 mW         Power loss       70 mW         Power loss       90 Wer loss         Power loss       3 W         Address pace per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Electronic coding element type F       Yes         • Electronic coding element type F       Yes         • Electronic coding element type F       Yes		V14 SP1 with HSP 202	
Supply voltage         Rated value (DC)       24 V         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)         Current consumption, max.       21 mA; From the backplane bus         Output voltage       Rated value (DC)         Rated value (DC)       24 V         Power       Power available from the backplane bus         Power loss       70 mW         Power loss       Power loss, typ.         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       9 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Digital outputs       Yes         • Electronic coding element type F       Yes         • Electronic coding element type F       Yes         Digital outputs       8	<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP4 HF5	
Rated value (DC)       24 V         permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)         Current consumption, max.       21 mA; From the backplane bus         Output voltage       Rated value (DC)         Rated value (DC)       24 V         Power       24 V         Power loss       70 mW         Power loss       70 mW         Power loss       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       9 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Electronic coding element type F       Yes         • Electronic coding element type F       Yes         Digital outputs       8	<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	V2.31	
permissible range, lower limit (DC)       20.4 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)         Current consumption, max.       21 mA; From the backplane bus         Output voltage       Rated value (DC)         Rated value (DC)       24 V         Power       Power loss         Power loss       70 mW         Power loss, typ.       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration       Yes         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Supply voltage		
permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes         Input current       Current consumption (rated value)       75 mA         Current consumption, max.       21 mA; From the backplane bus         Output voltage       Rated value (DC)         Power       24 V         Power loss       70 mW         Power loss, typ.       3 W         Address area       4ddress area         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Electronic coding       Yes         • Electronic coding element type F       Yes         • Electronic coding element type F       Yes         • Digital outputs       8	Rated value (DC)	24 V	
Reverse polarity protection       Yes         Input current       Current consumption (rated value)       75 mA         Current consumption, max.       21 mA; From the backplane bus         Output voltage         Rated value (DC)       24 V         Power         Power loss         Power loss, typ.       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration       Yes         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	permissible range, lower limit (DC)	20.4 V	
Input current         Current consumption (rated value)       75 mA         Current consumption, max.       21 mA; From the backplane bus         Output voltage         Rated value (DC)       24 V         Power         Power available from the backplane bus       70 mW         Power loss         Power loss         Power loss, typ.       3 W         Address area         Address space per module         e Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         e Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration       Yes         Automatic encoding       Yes         e Electronic coding element type F       Yes         Digital outputs       8	permissible range, upper limit (DC)	28.8 V	
Current consumption (rated value)       75 mA         Current consumption, max.       21 mA; From the backplane bus         Output voltage         Rated value (DC)       24 V         Power       Power available from the backplane bus         Power loss       70 mW         Power loss       70 mW         Power loss space per module       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration       Yes         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Reverse polarity protection	Yes	
Current consumption, max.       21 mA; From the backplane bus         Output voltage         Rated value (DC)       24 V         Power         Power available from the backplane bus       70 mW         Power loss         Power loss         Power loss, typ.       3 W         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       Yes         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Input current		
Output voltage         Rated value (DC)       24 V         Power       Power available from the backplane bus       70 mW         Power loss       70 mW         Power loss, typ.       3 W         Address area       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Lardware configuration       Yes         • Electronic coding element type F       Yes         • Electronic coding element type F       Yes         • Digital outputs       8	Current consumption (rated value)	75 mA	
Rated value (DC)       24 V         Power       Power available from the backplane bus       70 mW         Power loss       70 mW         Power loss, typ.       3 W         Address area       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Lectronic coding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Current consumption, max.	21 mA; From the backplane bus	
Power         Power available from the backplane bus       70 mW         Power loss       70 mW         Power loss       3 W         Address area       3 W         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration       Yes         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Output voltage		
Power available from the backplane bus       70 mW         Power loss       3         Power loss, typ.       3 W         Address area       3         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Rated value (DC)	24 V	
Power loss         Power loss, typ.         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         • Address space per module         • Inputs         • Outputs         6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Power		
Power loss, typ.       3 W         Address area       Address space per module         Address space per module       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration       Yes         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Power available from the backplane bus	70 mW	
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       7         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Power loss		
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       4utomatic encoding         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Power loss, typ.	3 W	
• Inputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         • Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration       Automatic encoding         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       8	Address area		
• Outputs       6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA         Hardware configuration	Address space per module		
Hardware configuration         Automatic encoding       Yes         • Electronic coding element type F       Yes         Digital outputs       Number of digital outputs         8       8	Inputs	6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA	
Automatic encoding     Yes       • Electronic coding element type F     Yes       Digital outputs     8	Outputs	6 byte; 5 bytes non-RIOforFA; 6 bytes RIOforFA	
Electronic coding element type F Yes  Digital outputs  Number of digital outputs  8	Hardware configuration		
Digital outputs       Number of digital outputs       8	Automatic encoding	Yes	
Number of digital outputs     8	<ul> <li>Electronic coding element type F</li> </ul>	Yes	
	Digital outputs		
	Number of digital outputs	8	
Digital outputs, parameterizable Yes	Digital outputs, parameterizable	Yes	

Chart aircuit protection	Vec
Short-circuit protection	Yes
Open-circuit detection	No Turn 201/
Limitation of inductive shutdown voltage to	Typ39 V Yes
Controlling a digital input	Tes
Switching capacity of the outputs	0.5 A
with resistive load, max.	2 W
on lamp load, max.  Load resistance range	2 VV
5	40.0
<ul> <li>lower limit</li> <li>upper limit</li> </ul>	48 Ω 12 000 Ω
Output voltage	24.1/1 + / 0.5.1/)
for signal "1", min. Output current	24 V; L+ (-0.5 V)
for signal "1" rated value	0.5 A
0	0.5 mA
for signal "0" residual current, max.	0.5 IIIA
Switching frequency     with resistive load, max.	20 Hz: Symmetrical
with inductive load, max.	30 Hz; Symmetrical
	0.1 Hz; according to IEC 60947-5-1, DC-13, symmetrical
with capacitive load, max.	2 Hz; Symmetrical
on lamp load, max.	10 Hz; Symmetrical
Total current of the outputs	0.5 Au note detating data in the manual
Current per channel, max.	0.5 A; note derating data in the manual
Current per module, max.	3 A; note derating data in the manual
Total current of the outputs (per module)	
horizontal installation	<b>0</b> 4
— up to 40 °C, max.	3 A
— up to 50 °C, max.	2.5 A
— up to 60 °C, max.	2 A
vertical installation	
— up to 50 °C, max.	2 A
Cable length	400
• shielded, max.	100 m
• unshielded, max.	100 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	No
Alarms	
Diagnostic alarm	Yes
Diagnostics indication LED	
RUN LED	Yes; green LED
ERROR LED	Yes; red LED
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green PWR LED
<ul> <li>Channel status display</li> </ul>	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	Yes; red LED
for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
between the channels	No
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>between the channels and the power supply of the</li> </ul>	No
electronics	
Isolation	
Isolation tested with	707 V DC (type test)
Standards, 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
-	

<ul> <li>SIL acc. to IEC 61508</li> </ul>	SIL 3	
Probability of failure (for service life of 20 years and repair time of 100 hours)		
<ul> <li>Low demand mode: PFDavg in accordance with SIL3</li> </ul>	< 6.00E-05	
<ul> <li>— High demand/continuous mode: PFH in accordance with SIL3</li> </ul>	< 2.00E-09 1/h	
Ambient conditions		
Ambient temperature during operation		
<ul> <li>horizontal installation, min.</li> </ul>	0 °C	
<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:	1/16/2021 🖸	