## SIEMENS

## Data sheet

## 6ES7136-6BA00-0CA0



SIMATIC DP, Electronics module for ET 200SP, F-DI 8x 24 V DC HF, 15 mm width, up to PL E (ISO 13849-1)/ SIL3 (IEC 61508)

General information	
Product type designation	F-DI 8x24VDC HF
usable BaseUnits	BU type A0
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>	V12
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 / -
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	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
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
Encoder supply	
Number of outputs	8
Short-circuit protection	Yes; Electronic (response threshold 0.7 A to 1.8 A)
Output current	
• up to 60 °C, max.	0.3 A
24 V encoder supply	
• 24 V	Yes; min. L+ (-1.5 V)
Short-circuit protection	Yes
Output current, max.	800 mA; Total current of all encoders
Power	
Power available from the backplane bus	70 mW
Power loss	
Power loss, typ.	4 W
Address area	
Address space per module	
Inputs	6 byte
Outputs	4 byte
Hardware configuration	
Automatic encoding	Yes
Electronic coding element type F	Yes
Digital inputs	
Number of digital inputs	8

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index logical         June Solv           end reginal "1"         -30 to +5 V           in fragmal "1", "typ.         30 TrA           in fragmal "1", "typ.         37 TrA           in and desk (price value of inputs	Source/sink input	Yes; P-reading
• A V 	· · · · · · · · · · · · · · · · · · ·	Yes
• For signal ""30 to - 5 V• For signal "1". top.30 to - 5 V• For signal "1". top.30 to - 5 V• For signal "1". top.37 r A• For signal "1". top.Ves parameterzableVes parameterzable20 ms + aft "V b 1", mm.20 ms + aft "V b 1", mm.20 ms + aft "N b 0", mm.20 ms		0414
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for standard inputs <ul></ul>		3.7 mA
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Arms         Yes           • Diagnostic alarm         Yes           • Hardware interrupt         No           Diagnostic sindication LED         Yes; green LED           • ERROR LED         Yes; green PWR LED           • ERROR LED         Yes; green PWR LED           • Channel status display         Yes; green PWR LED           • Channel status display         Yes; green PWR LED           • Or module diagnostics         Yes; green PWR LED           • for module diagnostics         Yes; green PWR LED           • 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         Solation           Suitable for safety functions         Yes           Suitable for safety functions         Yes           • Performance tevel acording to 1SO 13849-1         PLe           • Sil. ac. to IEC 61508         Sil. a           • Debabili		
• Diagnostic alarmYes• Hardware interruptNoDiagnostic aloctation LED• RUN LEDYes; green LED• RUN LEDYes; red LED• Monitoring of the supply voltage (PWR-LED)Yes; green LED• Orannel status displayYes; green LED• Orannel status displayYes; green LED• Orannel diagnosticsYes; green LED• for module diagnosticsYes; green/Wed DIAG LED• for module diagnosticsYes; green/Ved DIAG LED• for module diagnosticsNo• between the channels and backplane busYes• between the channels in safety modeYes• between the reater the formance level according to ISO 13849-1Pelca• horizontal installation, max.\$200E-05• horizontal mode: PFDarg in accordance with sl.3\$1.06-09 1/h• horizontal installation, max.\$0 "C• horizontal installation, max.\$0 "C• horizontal installation, max		Yes
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• Channel status display     Yes; green LED       • for channel diagnostics     Yes; red LED       • for module diagnostics     Yes; red LED       • for module diagnostics     Yes; green/red DIAG LED       Potential separation channels     No       • between the channels and backplane bus     No       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • between the channels and the power supply of the electronics     Yes       • bottonel tested with     707 V DC (type test)       • Standards, approvals, certificates     Yes       • Performance level according to ISO 13849-1     PLe       • Standards of the failure (for service life of 20 years and repair time of 100 hours)        - Low demand mode: PFDavg in accordance with St1.3     <1.00E-09		
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• for module dignostics         Yes; green/red DIAG LED           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           solation tested with         707 V DC (type test)           Standards, approvals, cortificates         Yes           Suitable for safety functions         Yes           • betry class achievable in safety mode         Yes           • Performance level according to ISO 13849-1         PLe           • SIL acc. to IEC 61508         SIL 3           • Drobability of faiture (for service life of 20 years and repair time of 100 hours)         -           - Low demand mode: PFDavg in accordance with SIL3             - High demand/continuous mode: PFH in accordance with SIL3             - horizontal installation, min.         0 °C            • horizontal installation, min.         0 °C            • vertical installation, min.		-
Potential separation           Potential separation channels           • between the channels           • 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           • botion           • botion           • botion           • botion           • botion           • between the channels           • botion           • botion           • - Low demand mode: PFDavg in accordance with \$1L3           • - Low demand mode: PFDavg in accordance with \$1L3           • Ambient temperature during operation           • horizontal installation, min.         0 °C           • horizontal installation, min.         0 °C           • horizontal installation, min.         0 °C <td>-</td> <td></td>	-	
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         isolation       No         Isolation tested with       707 V DC (type test)         Standards, 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         • 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: PFDayg in accordance with SIL3          - High demand/continuous mode: PFH in accordance with SIL3          - High demand/continuous mode: PFH in accordance with SIL3          Ambient conditions          Anbient conditions       0 °C         • vertical installation, min.       0 °C         • vertical installation, min.       0 °C         • vertical installation, max.       50 °C         • vertical installation, max.       50 °C         • vertical installation, max.       50 °C	-	Yes; green/red DIAG LED
• between the channels         No           • between the channels and backplane bus         Yes           • between the channels and the power supply of the electronics         No           solation         No           solation tested with         707 V DC (type test)           Standards, approvals, certificates         Yes           Standards, approvals, certificates         Yes           Standards, approvals, certificates         Yes           Ferformance level according to ISO 13849-1         PLe           • Performance level according to ISO 13849-1         PLe           • 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: PFDay in accordance with Sil.3             - High demand/continuous mode: PFH in accordance with Sil.3             - horizontal installation, min.         0 °C            • horizontal installation, min.         0 °C            • horizontal installation, min.         0 °C            • vertical installation, max.         60 °C            • vertical installation, max.         0 °C            • vertical installation, max.         4000 m; Restrictions for inst	Potential separation	
• between the channels and backplane bus         Yes           • between the channels and the power supply of the electronics         No           solation         solation tested with         707 V DC (type test)           Standards, approvals, certificates         Yes           Suitable for safety functions         Yes           Highest safety class achievable in safety mode         Yes           • Performance level according to ISO 13849-1         PLe           • SilL acc. to IEC 61508         SIL 3           Probability of failure (for service life of 20 years and repair time of 100 hours)         -           - Low demand mode: PFDay in accordance with SIL3         < 2.00E-05	Potential separation channels	
• between the channels and the power supply of the electronics         No           solation         solation tested with         707 V DC (type test)           Standards, approvals, certificates         res           Suitable for safety functions         Yes           Highest safety class achievable in safety mode         solation           • Performance level according to ISO 13849-1         PLe           • Slit acc. to IEC 61508         Slit 3           Probability of failure (for service life of 20 years and repair time of 100 hours)            - Low demand mode: PFDavg in accordance with Slit.3            - High demand/continuous mode: PFH in accordance with Slit.3            - High demand/continuous mode: PFH in accordance with Slit.3            - High demand/continuous mode: PFH in accordance with slit.3            - High demand/continuous mode: PFH in accordance with slit.3            - with Slit.3            - With of anistallation, min.         0 °C           • korizontal installation, min.         0 °C           • vertical installation, min.         50 °C           • vertical installation, max.         50 °C           • listlude above sea level, max.         4 000 m; Restrictions for installation altitudes > 2 000 m; see manual           Dimensions		
electronics         initial and initial anditial andininitial and initial andininininitial and initial and		Yes
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         • Performance level according to ISO 13849-1       PLe         • 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 SIL3          — High demand/continuous mode: PFH in accordance with SIL3          — High demand/continuous mode: PFH in accordance with SIL3          Mbient conditions          Ambient temperature during operation          • horizontal installation, min.       0 °C         • vertical installation, max.       60 °C         • vertical installation, max.       50 °C         Altitude during operation relating to sea level          • Installation altitude above sea level, max.       4 000 m; Restrictions for installation altitudes > 2 000 m, see manual         Dimensions        15 mm	electronics	No
Standards, approvals, certificates         Suitable for safety functions       Yes         Highest safety class achievable in safety mode       Performance level according to ISO 13849-1         PLe       SIL acc. to IEC 61508         Suitability of failure (for service life of 20 years and repair time of 100 hours)       SL03         — Low demand mode: PFDavg in accordance with SIL3       < 2.00E-05		
Suitable for safety functions       Yes         Highest safety class achievable in safety mode       Performance level according to ISO 13849-1       PLe         • Performance level according to ISO 13849-1       PLe         • 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 SIL3       < 2.00E-05		707 V DC (type test)
Highest safety class achievable in safety mode         • Performance level according to ISO 13849-1       PLe         • 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 SIL3       < 2.00E-05		
• Performance level according to ISO 13849-1     PLe       • SIL acc. to IEC 61508     SIL 3       Probability of failure (for service life of 20 years and repair time ±100 hours)     -       - Low demand mode: PFDavg in accordance with SIL3     <2.00E-05		Yes
• SIL acc. to IEC 61508       SIL 3         Probability of failure (for service life of 20 years and repair time - 100 hours)         - Low demand mode: PFDavg in accordance with SIL3       < 2.00E-05		
Probability of failure (for service life of 20 years and repair time of 100 hours)         Low demand mode: PFDavg in accordance with SIL3         High demand/continuous mode: PFH in accordance with SIL3         Ambient conditions         Ambient conditions         Ambient temperature during operation         • horizontal installation, min.         • horizontal installation, max.         • vertical installation, min.         • vertical installation, max.         • o°C         Altitude during operation relating to sea level         • Installation altitude above sea level, max.	-	
- Low demand mode: PFDavg in accordance with SIL3       < 2.00E-05		
SIL3       — High demand/continuous mode: PFH in accordance with SIL3       < 1.00E-09 1/h		
with ŠIL3         Ambient conditions         Ambient temperature during operation         • horizontal installation, min.       0 °C         • horizontal installation, max.       60 °C         • vertical installation, min.       0 °C         • vertical installation, max.       50 °C         Altitude during operation relating to sea level       50 °C         • Installation altitude above sea level, max.       4 000 m; Restrictions for installation altitudes > 2 000 m, see manual         Dimensions       15 mm	SIL3	
Ambient temperature during operation <ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>60 °C</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> <li>o °C</li> <li>vertical installation, max.</li> <li>50 °C</li> </ul> Altitude during operation relating to sea level <ul> <li>Installation altitude above sea level, max.</li> <li>4 000 m; Restrictions for installation altitudes &gt; 2 000 m, see manual</li> </ul> Dimensions         15 mm	with SIL3	< 1.00E-09 1/h
• horizontal installation, min.       0 °C         • horizontal installation, max.       60 °C         • vertical installation, min.       0 °C         • vertical installation, max.       50 °C         Altitude during operation relating to sea level       50 °C         • Installation altitude above sea level, max.       4 000 m; Restrictions for installation altitudes > 2 000 m, see manual         Dimensions       15 mm		
• horizontal installation, max.     60 °C       • vertical installation, min.     0 °C       • vertical installation, max.     50 °C       Altitude during operation relating to sea level     50 °C       • Installation altitude above sea level, max.     4 000 m; Restrictions for installation altitudes > 2 000 m, see manual       Dimensions     15 mm		
• vertical installation, min.     0 °C       • vertical installation, max.     50 °C       Altitude during operation relating to sea level     4 000 m; Restrictions for installation altitudes > 2 000 m, see manual       • Installation altitude above sea level, max.     4 000 m; Restrictions for installation altitudes > 2 000 m, see manual       • Dimensions     15 mm		
• vertical installation, max.     50 °C       Altitude during operation relating to sea level     4 000 m; Restrictions for installation altitudes > 2 000 m, see manual       • Installation altitude above sea level, max.     4 000 m; Restrictions for installation altitudes > 2 000 m, see manual       Dimensions     15 mm		
Altitude during operation relating to sea level         • Installation altitude above sea level, max.         4 000 m; Restrictions for installation altitudes > 2 000 m, see manual         Dimensions         Width       15 mm		
• Installation altitude above sea level, max.       4 000 m; Restrictions for installation altitudes > 2 000 m, see manual         Dimensions       15 mm		50 °C
Dimensions Width 15 mm		
Width 15 mm	Installation altitude above sea level, max.	4 000 m; Restrictions for installation altitudes > 2 000 m, see manual
	Dimensions	
Height 73 mm	Width	15 mm
	Height	73 mm

Depth	58 mm
Weights	
Weight, approx.	49 g
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