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Data sheet 6DL1131-6GF00-0PK0



SIMATIC ET 200SP HA, digital input module, DI 8X230VAC HA suitable for terminal block K0, color code CC41, Module diagnostics

General information	
Product type designation	DI 8x230VAC HA
Firmware version	V1.0
● FW update possible	Yes
Usable terminal block	TB type K0
Color code for module-specific color identification plate	CC42
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V16
● STEP 7 configurable/integrated from version	V5.6
● PCS 7 configurable/integrated from version	V9.0
● PCS neo can be configured/integrated from version	V3.0
● PROFINET from GSD version/GSD revision	GSDML V2.3
Operating mode	
● DI	Yes
Redundancy	
● Redundancy capability	No
Supply voltage	
Rated value (AC)	230 V
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
Power	
Power available from the backplane bus	105 mW
Power loss	
Power loss, typ.	1.8 W; Active power, load voltage 230 V, all inputs connected with 230 V, 50 Hz
Address area	
Address space per module	
● Address space per module, max.	1 byte; + 1 byte for QI information
Hardware configuration	
Automatic encoding	
● Mechanical coding element	Yes
Digital inputs	
Number of digital inputs	8; Isolated
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Input voltage	
● Rated value (AC)	230 V
● for signal "0"	0V AC to 40V AC
● for signal "1"	74 V AC to 264 V AC
Input current	

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● for signal "1", typ.	10.8 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	1.5 ms
— at "0" to "1", max.	4 ms
— at "1" to "0", min.	10 ms
— at "1" to "0", max.	10 ms
Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Encoder	
Connectable encoders	
● 2-wire sensor	Yes
Interrupts/diagnostics/status information	
Alarms	
● Diagnostic alarm	Yes
Diagnoses	
● Diagnostic information readable	Yes
Diagnostics indication LED	
● MAINT LED	Yes; Yellow LED
● Channel status display	Yes; green LED
● for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
● between the channels	Yes
● between the channels, in groups of	2
● between the channels and backplane bus	Yes
Permissible potential difference	
between different circuits	Between channels: 230 V AC (same system phase) / 120 V AC (different system phase); between groups: 230 V AC (different system phase)
between channels and backplane bus/supply voltage	230 V AC
Isolation	
tested with	
● between channels and backplane bus/supply voltage	4 200 V DC/1 min, type test
● Between channels	1 500 V AC/1 min, type test
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-40 °C
● horizontal installation, max.	70 °C
● vertical installation, min.	-40 °C
● vertical installation, max.	60 °C
Dimensions	
Width	22.5 mm
Height	115 mm
Depth	138 mm
Weights	
Weight, approx.	148 g

last modified: 8/18/2023

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