SIEMENS

Data sheet

6ES7132-6BD20-2BA0



SIMATIC ET 200SP, digital output module, DQ 4x 24VDC/2A Standard, Pack quantity: 10 units, suitable for BU type A0, Color code CC02, Module diagnostics

Figure similar

Canaval information		
General information	20 4 044 207	
Product type designation	DQ 4x24 V DC/2 A ST	
HW functional status	From FS08	
Firmware version	V1.1	
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	
Isochronous mode	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V11 SP2 / V13	
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -	
 PROFIBUS from GSD version/GSD revision 	GSD Revision 5	
 PROFINET from GSD version/GSD revision 	GSDML V2.3	
Operating mode		
• DQ	Yes	
 DQ with energy-saving function 	No	
• PWM	No	
 Oversampling 	No	
• MSO	No	
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	
Input current		
Current consumption, max.	60 mA; without load	
output voltage / header		
Rated value (DC)	24 V	
Power loss		
Power loss, typ.	1 W	
Address area		
Address space per module		
Address space per module, max.	1 byte; + 1 byte for QI information	
Hardware configuration		
Automatic encoding	Yes	
Mechanical coding element	Yes	
Type of mechanical coding element	Type A	

Selection of BaseUnit for connection variants	
1-wire connection	BU type A0
2-wire connection	BU type A0
3-wire connection	BU type A0 with AUX terminals or potential distributor module
4-wire connection	BU type A0 + Potential distributor module
Digital outputs	20 type no i otoma delibato modulo
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	4
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
Response threshold, typ.	2.8 to 5.2 A
Limitation of inductive shutdown voltage to	Typ. L+ (-50 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
with resistive load, max.	2 A
• on lamp load, max.	10 W
Load resistance range	
lower limit	12 Ω
• upper limit	3 400 Ω
Output current	
• for signal "1" rated value	2 A
• for signal "0" residual current, max.	0.1 mA
Output delay with resistive load	
• "0" to "1", typ.	50 μs
• "0" to "1", max.	50 µs
• "1" to "0", typ.	100 µs
• "1" to "0", max.	100 μs
Parallel switching of two outputs	
• for uprating	No
 for redundant control of a load 	Yes
Switching frequency	
 with resistive load, max. 	100 Hz
with inductive load, max.	2 Hz
● on lamp load, max.	10 Hz
Total current of the outputs	
 Current per channel, max. 	2 A
 Current per module, max. 	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 40 °C, max.	8 A
— up to 50 °C, max.	6 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 30 °C, max.	8 A
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
Cable length	
shielded, max.	1 000 m
• unshielded, max.	600 m
nterrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes; Module-wise
Short-circuit	Yes; Module-wise
Group error	Yes

Diagnostics indication LED	
 Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED
Channel status display	Yes; green LED
 for channel diagnostics 	No
 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	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Suitable for safety-related tripping of standard modules	Yes; see FAQ Entry ID: 39198632
Highest safety class achievable in safety mode	
 Performance level according to ISO 13849-1 	PL d
• SIL acc. to IEC 61508	SIL 2
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; < 0 °C as of FS08
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; < 0 °C as of FS08
vertical installation, max.	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g

last modified:

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