## **SIEMENS**

## **Data sheet**

## 6ES7132-7RD01-0AB0



SIMATIC DP, electronic module for ET200iSP, 4 DQ, 23.1 V DC/20 mA "H"-shutdown, Ex ib (ia Ga) IIC T4 Gb, Ex ib [ia IIIC Da] IIC T4 Gb, Ex ib [ia] I Mb

General information	
Product type designation	4DQ 23.1 V DC/20 mA
Input current	
Current consumption, typ.	290 mA
from load voltage L+ (without load), max.	340 mA; with actuator supply
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	2.5 W
Address area	
Address space per module	
Address space per module, max.	2 byte
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	4; additionally 1 intrinsically-safe input for H shutdown
Short-circuit protection	Yes
No-load voltage Uao (DC)	23.1 V
Internal resistor Ri	275 Ω
Trend key points E	
<ul> <li>Voltage Ue (DC)</li> </ul>	17.6 V
Current le	20 mA
Output current	
<ul><li>for signal "1" rated value</li></ul>	0.02 A
Output delay with resistive load	
• "0" to "1", max.	2 ms
• "1" to "0", max.	1.5 ms
Parallel switching of two outputs	
<ul><li>for uprating</li></ul>	No; for Ex reasons not possible; nor for predecessor
Switching frequency	
<ul> <li>with resistive load, max.</li> </ul>	100 Hz
<ul> <li>with inductive load, max.</li> </ul>	2 Hz
Cable length	
<ul><li>shielded, max.</li></ul>	500 m
• unshielded, max.	500 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnoses	
Diagnostic information readable	Yes
Wire-break	Yes; R > 10 kohms, I < 100 μA

Short-circuit	Yes; R< 800 ohms (one output), R< 40 ohms (outputs connected in parallel)	
Diagnostics indication LED		
<ul> <li>Group error SF (red)</li> </ul>	Yes	
<ul> <li>Status indicator digital output (green)</li> </ul>	Yes	
Potential separation		
Potential separation digital outputs		
<ul> <li>between the channels</li> </ul>	No	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
<ul> <li>Between the channels and load voltage L+</li> </ul>	Yes	
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
SIL acc. to IEC 61508	No	
Dimensions		
Width	30 mm	
Height	129 mm	
Depth	136.5 mm	
Weights		
Weight, approx.	255 g	

1/16/2021

last modified: