SIEMENS

Data sheet 6ES7132-4BB31-0AB0



*** Spare part *** SIMATIC DP, 5 electronic modules for ET 200S, 2 DO High Feature 24 V DC/2 A, 15 mm width, Diagnostics short circuit and wire break, Substitute value output with LED SF (group fault) 5 units per packing unit

General information	
Product function	
● Isochronous mode	Yes
Supply voltage	
Reverse voltage protection	Yes; when using the same load voltage as on the power module
Load voltage L+	
● Rated value (DC)	24 V; From power module
● Reverse polarity protection	Yes; polarity reversal can lead to the digital outputs being connected through
Input current	
from load voltage L+ (without load), max.	5 mA; Per channel
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	1.4 W
Address area	
Address space per module	
● Address space per module, max.	1 byte
● with packing	2 bit
Digital outputs	
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	2
Short-circuit protection	Yes
● Response threshold, typ.	4 A
Limitation of inductive shutdown voltage to	-55 to -60 V, typ. L+( )
Controlling a digital input	Yes
Switching capacity of the outputs	
● on lamp load, max.	5 W
Load resistance range	
● lower limit	12 Ω
● upper limit	3 400 Ω
Output voltage	
● for signal "1", min.	L+ (-1 V)
Output current	
● for signal "1" rated value	2 A
● for signal "1" permissible range, min.	7 mA
● for signal "1" permissible range, max.	2.4 A
● for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
● "0" to "1", max.	100 µs
● "1" to "0", max.	400 µs

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Parallel switching of two outputs	
● for uprating	No
● for redundant control of a load	Yes; per module
Switching frequency	
● with resistive load, max.	100 Hz
● with inductive load, max.	2 Hz; 0,5 H
● on lamp load, max.	10 Hz
Total current of the outputs	
● Current per module, max.	4 A
Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes; 0/1
Diagnoses	
● Diagnostic information readable	Yes
● Wire break	Yes; channel by channel
● Short-circuit	Yes; channel by channel
Diagnostics indication LED	
● Group error SF (red)	Yes
● Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
● between the channels	No
● between the channels and backplane bus	Yes
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g

Classifications

	Version	Classification
eClass	16	27-24-26-04
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

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Miscellaneous | Manufacturer Declaration

General Product Approval		EMV	For use in hazardous locations
	China RoHS		

For use in hazardous locations					
FM					Miscellaneous

For use in hazardous locations	Maritime application				
CCC-Ex					NK / Nippon Kaiji Kyokai

Maritime application		
		CCS (China Classification Society)

last modified: 7/1/2025

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