

SIEMENS

Product data sheet

6ES7132-4BB31-0AB0


SIMATIC DP,
5 ELECTRON. MODULES FOR ET 200S,
2 DO HIGH FEATURE DC 24V/2A,
15 MM WIDTH DIAGNOSIS F. SHORT-CIRCUIT AND
OPEN-CIRCUIT,
FIRST-UP SIGNAL WITH LED SF (GROUP FAULT),
5 PIECES PER PACKAGING UNIT

Supply voltage

Reverse voltage protection	Yes ; when using the same load voltage as on the power module
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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 losses

Power loss, typ.	1.4 W
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Address area

Address space per module

with packing	2 bit
without packing	1 byte

Digital outputs	
Number/binary outputs	2
Functionality/short-circuit strength	Yes ; Per channel
Response threshold, typ.	4 A
Limitation of inductive shutdown voltage to	-55 to -60 V, typ. L+ ()
Lamp load, max.	5 W
Controlling a digital input	Yes
Load resistance range	
lower limit	12 Ω
upper limit	3400 Ω
Output voltage	
for signal "1", min.	L+ (-1 V)
Output current	
for signal "1" rated value	2 A
for signal "1" permissible range for 0 to 60 °C, min.	7 mA
for signal "1" permissible range for 0 to 60 °C, max.	2.4 A
for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
0 to "1", max.	100 μ s
1 to "0", max.	400 μ s
Parallel switching of 2 outputs	
for increased power	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
Aggregate current of outputs (per group)	
all mounting positions	
up to 60 °C, max.	4 A
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m

Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Substitute values connectable	Yes ; 0/1
Diagnostic messages	
Diagnostic functions	Yes ; Can be read out
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
Parameter	
Remark	3 bytes
Diagnosis: wire break	Disable / enable
Diagnosis: short circuit	Disable / enable
Behavior on CPU/Master STOP, channel-wise	Substitute a value/keep last value
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels	No
between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weight	
Weight, approx.	40 g
Status	Mar 12, 2012