

SIEMENS

Product data sheet

6ES7141-4BF00-0AB0


SIMATIC DP,
ELECTRONIC MODULES FOR ET200PRO 8 DI DC
24V HIGH FEATURE,
CHANNEL DIAGNOSTICS;
SHORT CIRCUIT AND WIRE BREAK;
INCLUSIVE BUS MODULE CONNECTING MODULE
IO 6ES7194-4..00-0AA0 MUST BE ORDERED
SEPERATELY

FH technology

Module for failsafe applications

No

Supply voltage

24 V DC

Yes

permissible range, lower limit (DC)

20.4 V

permissible range, upper limit (DC)

28.8 V

Reverse polarity protection

Yes ; against destruction; load increasing

Input current

from backplane bus 3.3 V DC, max.

40 mA

from supply voltage 1L+, max.

20 mA

Encoder supply

Number of outputs

8

Output current

up to 55 °C, max.

1 A

Short-circuit protection

Yes ; per channel, electronic

Power losses	
Power loss, typ.	2.5 W
Address area	
Occupied address area	
Inputs	1 byte
Digital inputs	
Number/binary inputs	8
Input characteristic curve acc. to IEC 61131, Type 1	No
Input characteristic curve acc. to IEC 61131, Type 2	Yes
Number of simultaneously controllable inputs	
all mounting positions	
up to 55 °C, max.	8
Input voltage	
Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	-3 to +5 V
for signal "1"	11 to 30 V
Input current	
for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
Parameterizable	Yes
at "0" to "1", min.	0.5 ms ; 0.5 ms/ 3ms/ 15 ms/ 20 ms
at "0" to "1", max.	20 ms
at "1" to "0", min.	0.5 ms ; 0.5 ms/ 3ms/ 15 ms/ 20 ms
at "1" to "0", max.	20 ms
Cable length	
Cable length, shielded, max.	30 m
Cable length unshielded, max.	30 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
Permissible quiescent current (2-wire sensor), max.	1.5 mA

Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Diagnostic messages	
Diagnostic functions	Yes ; channel by channel, parameterizable
Diagnostic information readable	Yes
Wire break	Yes ; Monitoring, $I < 0.3 \text{ mA}$
Short circuit	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Status indicator digital input (green)	Yes ; Per channel
Parameter	
Diagnostic alarm	Yes
Hardware interrupt	for 6 channels
Diagnosis: wire break	channel by channel
Diagnosis: short circuit	channel by channel
Galvanic isolation	
between backplane bus and all other circuit components	Yes
Galvanic isolation digital inputs	
between the channels	No
between the channels and the backplane bus	Yes
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
Isolation checked with	500 V DC
Degree and class of protection	
IP65	Yes
IP66	Yes
IP67	Yes
Dimensions	
Width	45 mm
Height	130 mm

Depth	35 mm ; without terminal module
Weight	
Weight, approx.	140 g
Status	Jul 17, 2012