MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7141-6BH00-0AB0

SIXTEEN-CHANNEL DIGITAL INPUT BLOCK

Used with the applicable SIMATIC ET 200eco PN configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6ES7141-6BH00-0AB0 official technical data; applicable specification pages.

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Product data sheet 6ES7141-6BH00-0AB0



SIMATIC DP, ET 200ECO PN, 16 DI 24V DC;
8 X M12, DOUBLE-ASSIGNEMENT;
DEGREE OF PROTECTION IP67

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General information	
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0306H
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
Input current	
Current consumption, typ.	100 mA
Encoder supply	
Number of outputs	8
Output current, rated value	100 mA ; per output
24 V encoder supply	
Short-circuit protection	Yes
Power losses	
Power loss, typ.	6.5 W
Digital inputs	

subject to modifications
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Number/binary inputs	16
In groups of	2
Input characteristic curve acc. to IEC 61131, Type 3	Yes
Number of simultaneously controllable inputs	
all mounting positions	
up to 60 °C, max.	16
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 "0", max. (permissible quiescent current)	1.5 mA
for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
at "0" to "1", max.	typically 3 ms
at "1" to "0", max.	typically 3 ms
Cable length	
Cable length unshielded, max.	30 m
Interfaces	
Transmission procedure	100BASE-TX
Transmission rate, max.	100 Mbit/s
Supports protocol for PROFINET IO	
Number of PROFINET interfaces	2
Autocrossing	Yes
Automatic detection of transmission speed	Yes
Integrated switch	Yes
PROFINET IO Device	
IRT with the option "high flexibility" supported	Yes
Prioritized startup supported	Yes
Protocols	
Protocols (Ethernet)	
SNMP	Yes
DCP	Yes
LLDP	Yes
ping	Yes
arp	Yes

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Interrupts/diagnostics/status information	
Status indicator	Yes ; Green LED
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic functions	Yes
Diagnostic information readable	Yes
Monitoring the supply voltage	Yes ; Green "ON" LED
Wire break in signal transmitter cable	Yes
Short circuit encoder supply	Yes ; Per channel group
Group error	Yes ; Red/yellow "SF/MT" LED
Galvanic isolation	
between the load voltages	Yes
between load voltage and all other switching components	No
between Ethernet and electronics	Yes
Galvanic isolation digital inputs	
between the channels	No
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
tested with	
24 V DC circuits	500 V
Interface	1500 V ; According to IEEE 802.3
Degree and class of protection	
IP65	Yes
IP66	Yes
IP67	Yes
Connection method	
M12	Yes
Dimensions	
Width	60 mm
Height	175 mm
Depth	49 mm
Weight	
Weight	910 g
Status	Feb 11, 2013

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