

SIEMENS

Product data sheet

6ES7132-1BH00-0XB0

SIMATIC DP,
ELECTRONIC BLOCK FOR ET 200L, 16 DO,
24V DC/0.5A



General information

Vendor identification (VendorID) 0016h

Supply voltage

24 V DC Yes

Reverse polarity protection Yes

Mains buffering

Mains buffering, min. 20 ms

Load voltage 2L+

Rated value (DC) 24 V ; 1L+, 2L+, 3L+

Input current

from load voltage L1 (without load), max. 50 mA ; Per load group (L1+ or L2+ / L3+)

from supply voltage L+, max. 70 mA ; L4+ / L5+

Power losses

Power loss, typ. 5 W

Hardware configuration

Rack	
Required terminal block	TB 16L
Digital outputs	
Number/binary outputs	16
Functionality/short-circuit strength	Yes ; Electronic
Response threshold, typ.	0.7 A
Limitation of inductive shutdown voltage to	Typ. (L1+ or L2+ / L3+) -55 V
Lamp load, max.	5 W
Controlling a digital input	Yes
Load resistance range	
lower limit	41 Ω
upper limit	28000 Ω
Output voltage	
Rated value (DC)	24 V
for signal "1", min.	Ua - 3 V
Output current	
for signal "1" rated value	0.5 A
for signal "1" permissible range for 0 to 60 °C, max.	0.5 A
for signal "0" residual current, max.	1 mA
Output delay with resistive load	
0 to "1", max.	50 ms
1 to "0", max.	200 ms
Parallel switching of 2 outputs	
for increased power	No
for redundant control of a load	Yes ; only outputs of the same group
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	8 Hz
Aggregate current of outputs (per group)	
all mounting positions	
up to 60 °C, max.	4 A
all other mounting positions	

up to 40 °C, max.	2 A
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Interfaces	
PROFIBUS DP	
Transmission rate, max.	1.5 Mbit/s
SYNC capability	Yes
Direct data exchange (slave-to-slave communication)	Yes ; Transmitter (for digital outputs and hybrid modules ET 200L: not for L-SC or IM-SC)
Communication functions	
Bus protocol/transmission protocol	PROFIBUS DP
Interrupts/diagnostics/status information	
Alarms	
Alarms	No
Diagnostic messages	
Diagnostic functions	Yes
Diagnostics indication LED	
Bus fault BF (red)	Yes
Status indicator digital output (green)	Yes
Status indicator digital input (green)	Yes
Monitoring 24 V voltage supply ON (green)	Yes
Galvanic isolation	
between PROFIBUS DP and all other circuit components	Yes
Galvanic isolation digital outputs	
between the channels	No
between the channels and PROFIBUS DP	Yes ; Optocoupler
Isolation	
Isolation checked with	500 V DC
Ambient conditions	
Operating temperature	
horizontal installation, min.	0 °C
horizontal installation, max.	60 °C ; 40°C for other mountings

Air pressure	
permissible range, min.	795 hPa
permissible range, max.	1080 hPa
Relative humidity	
Operation, min.	5 %
Operation, max.	95 % ; RH class 2 in accordance with IEC 1131-2
Vibrations	
Operation, checked according to IEC 60068-2-6	Yes ; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g)
Shock test	
checked according to IEC 60068-2-27	Yes ; IEC 68, Part 2-27; half-sine, 15 g, 11 ms
Degree and class of protection	
IP20	Yes
Connection method	
Inputs/outputs	Screw-type and spring-loaded terminals, permanent wiring; standard: 2-wire connection, optional: 3 and 4-wire connection
Dimensions	
Width	145 mm
Height	60 mm
Depth	60.5 mm
Weight	
Weight, approx.	130 g
Status	Mar 12, 2012