SIEMENS

Product data sheet

6ES7223-1BH30-0XB0

SIMATIC S7-1200, DIGITAL I/O SM 1223, 8DI / 8DO, 8DI DC 24 V, SINK/SOURCE, 8DO, TRANSISTOR 0.5A

Supply voltages

Rated value

DC 24 V Yes

permissible range, lower limit (DC) 20.4 V

permissible range, upper limit (DC) 28.8 V

Voltage supply to the transducers

present Yes

Current consumption

from backplane bus DC 5 V, max. 145 mA

Digital inputs

from load voltage L+ (without load), max. 4 mA; per channel

Current consumption/power loss

Power loss, typ. 2.5 W

Connection point

required front connectors Yes

Digital inputs

Number of digital inputs 8

2

Number of simultanneously controllable inputs

[nicht versorgt: TAK_ABP289_001_000]

Number of simultaneously controllable inputs, up to 40 8

°C

horizontal installation

up to 40 °C, max.

up to 50 °C, max.

vertical installation

up to 40 °C, max.

Input characteristic curve to IEC 1131, Typ 1 Yes

Input voltage

Rated value, DC 24 V

for signal "0" 5 VDC at 1 mA for signal "1" 5 VDC at 2.5 mA

Input current

for signal "0", max. (permissible quiescent current) 1 mA for signal "1", min. 2.5 mA

for signal "1", typ. 4 mA; Typical

Input delay (for rated value of input voltage)

for standard inputs

programmable Yes; 0.2, 0.4, 0.8, 1.6, 3.2, 6.4, and 12.8 ms,

selectable in groups of four

for interrupt inputs

programmable Yes

Cable length

cable length, shielded, max. 500 m

Cable length unshielded, max. 300 m

Digital outputs

Number of digital outputs 8

1

Short-circuit protection of the output No; to be provided externally

Limitation of inductive shutdown voltage to L+ (-48 V)

Switching capacity of the outputs

with resistive load, max. 0.5 A on lamp load, max. 5 W

Output voltage

Rated value (DC) 24 V

for signal "0" (DC), max. 0.1 V; with 10k ohms Load

for signal "1", min. 20 VDC

Output current

for signal "1" permissible range, max. 0.5 A for signal "0" residual current, max. $10 \ \mu\text{A}$

Output delay with resistive load

"0" to "1", max. 50 μs "1" to "0", max. 200 μs

Yes

Aggregate current of the outputs (per group) horizontal installation up to 50 °C, max. 4 A; Current per mass Cable length cable length, shielded, max. 500 m Cable length unshielded, max. 150 m Relay outputs Switching capacity of the contacts with inductive load, max. 0.5 A on lamp load, max. 5 W with resistive load, max. 0.5 A Interrupts/diagnostics/status information **Alarms Alarms** Yes Diagnostic alarm Yes Diagnoses Diagnostic functions Yes Monitoring the voltage supply to the electronics Yes Diagnostics indication LED Status indicator digital output (green) Yes Status indicator digital input (green) Yes Isolation Galvanic isolation, digital inputs between the channels, in groups of 2 Isolation, digital outputs between the channels, in groups of 500 VAC between the channels and the backplane bus Degree of protection IP 20 Yes Standards, approvals, certificates CE symbol Yes C-TICK Yes FM approval Yes

Mechanics Plastic

Dimensions and weight

Dimensions and weight

Width 45 mm
Height 100 mm
Depth 75 mm

Weight

Weight, approx. 210 g

Status Aug 31, 2009