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Data sheet 6DL4178-0BH01-0XX0



SIMATIC CN 4100 CPU module Process Automation, CPU module for SIMATIC CN 4100, protocols: OPC UA client, MODBUS TCP, S7 PUT/GET TCON

General information	
Product type designation	CPU modules 1 slot
HW functional status	FS04
Firmware version	V3.1
Engineering with	
● PCS 7 configurable/integrated from version	V9.0 SP3
● PCS neo can be configured/integrated from version	V4.0
● CNET can be configured/integrated as of version	V1.0
Supply voltage	
Rated value (DC)	24 V
Input current	
Current consumption, max.	800 mA
Power loss	
Power loss, typ.	10 W
Memory	
Type of memory	Flash
Work memory	
● integrated	2 Gbyte; ECC
● expandable	No
Backup	
● present	Yes; Entire project maintenance-free in the integral EEPROM
CPU-blocks	
FB	
● Number, max.	16 000
Hardware configuration	
Slots	
● required slots	1
Interfaces	
Number of industrial Ethernet interfaces	3
Protocols	
Supports protocol for PROFINET IO	No
EtherNet/IP	No
Modbus TCP	Yes
Modbus RTU	Yes; with serial modules
S7 protocol	Yes; PUT/GET (PCS 7) or Tcon (PCSneo)
OPC UA	Yes
IEC 60870-5-101	Yes; with serial modules
IEC 60870-5-104	Yes
Modbus TCP	
Connections	

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— number of connected servers, max.	150
— number of own servers, max.	10
— number of signals per AS, max.	2 500
OPC UA	
● Runtime license required	Yes
● OPC UA Client	Yes
— Security policies	Yes
— User authentication	Yes; "anonymous" or by user name & password
— Number of connections, max.	30
— Number of nodes of the client interfaces, recommended max.	2 500
● OPC UA Server	Yes
— Security policies	Yes
— User authentication	Yes
— GDS support (certificate management)	Yes
— Sampling interval, min.	100 ms
— Publishing interval, min.	100 ms
● Alarms and Conditions	No
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
cULus	Yes
Use in hazardous areas	
● EAC Ex	No
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-30 °C
● horizontal installation, max.	60 °C
● vertical installation, min.	-30 °C
● vertical installation, max.	45 °C
Dimensions	
Width	45 mm
Height	185 mm
Depth	112 mm
Weights	
Weight, approx.	0.44 kg
Classifications	

	Version	Classification
eClass	14	27-24-22-07
eClass	12	27-24-22-07
eClass	9.1	27-24-22-07
eClass	9	27-24-22-07
eClass	8	27-24-22-07
eClass	7.1	27-24-22-07
eClass	6	27-24-22-07
ETIM	10	EC000236
ETIM	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236

Approvals / Certificates

General Product Approval					For use in hazardous locations
UKCA	CE EG-Konf.	UL	KC	EAC	UL

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