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Data sheet 6ES7155-6BA01-0CN0



SIMATIC ET 200SP, bundle PROFIBUS IM, IM 155-6DP HF, max. 32 I/O modules and 16 ET 200AL modules, multi hot swap, bundle consists of: interface module (6ES7155-6BU01-0CN0), server module (6ES7193-6PA00-0AA0), PROFIBUS plug (6ES7972-0BB70-0XA0); product phase-out planned – see SIOS 109989704

General information	
Product type designation	IM 155-6 DP HF
HW functional status	From FS02
Firmware version	V4.2
● FW update possible	Yes
Product function	
● I&M data	Yes; I&M0 to I&M3
● Module swapping during operation (hot swapping)	Yes; Multi-hot swapping
● Isochronous mode	No
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	V15 SP1
● STEP 7 configurable/integrated from version	V5.5 SP4, only up to FW V3.1
● PROFIBUS from GSD version/GSD revision	si0181ab.gs* (V04.02.13, Rev.3, Rev.5)
Configuration control	
via dataset	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
Mains buffering	
● Mains/voltage failure stored energy time	10 ms
Input current	
Current consumption, max.	335 mA
Inrush current, max.	1.6 A
I^2t	0.038 $A^2 \cdot s$
Power loss	
Power loss, typ.	1.5 W
Address area	
Address space per module	
● Address space per module, max.	32 byte; For input and output data respectively
Address space per station	
● Address space per station, max.	244 byte
Hardware configuration	
Rack	
● Quantity of operable ET 200SP modules, max.	32
● Quantity of operable ET 200AL modules, max.	16
Interfaces	

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Number of PROFIBUS interfaces	1
1. Interface	
Interface types	
● RS 485	Yes; 1 integrated RS 485 socket
● Output current of the interface, max.	90 mA
Protocols	
● PROFIBUS DP device	Yes
Interface types	
RS 485	
● Transmission rate, max.	12 Mbit/s
Protocols	
Supports protocol for PROFINET IO	No
PROFIsafe	Yes
PROFIBUS	Yes
EtherNet/IP	No
Modbus TCP	No
Open IE communication	
● TCP/IP	No
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— DPV0	Yes
— DPV1	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
● RUN LED	Yes; green LED
● ERROR LED	Yes; red LED
● MAINT LED	Yes; Yellow LED
● Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
● Connection display DP	Yes; green DP LED
Potential separation	
between backplane bus and electronics	No
between PROFIBUS DP and all other circuit components	Yes
between supply and all other circuits	No
Permissible potential difference	
between different circuits	Safety extra low voltage SELV
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-25 °C; No condensation
● horizontal installation, max.	60 °C
● vertical installation, min.	-25 °C; No condensation
● vertical installation, max.	50 °C
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Connection method	
ET-Connection	
● via BU/BA Send	Yes; + 16 ET 200AL modules
Dimensions	
Width	50 mm
Height	117 mm
Depth	74 mm
Weights	

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Weight, approx.	150 g

Classifications

	Version	Classification
eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08
eClass	6	27-24-26-08
ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous | Manufacturer Declaration | EG-Konf. | UKCA | Profibus | UL

General Product Approval

RCM | EAC | EG-Konf. | UKCA | China RoHS

For use in hazardous locations

UL | FM | CCC-Ex | ATEX | Type Examination Certificate | IECEx

For use in hazardous locations

Miscellaneous | CCC-Ex

Maritime application

ABS | BUREAU VERITAS | DNV | LRS

Maritime application

NK / Nippon Kaiji Kyokai | RINA | RMRS | CCS (China Classification Society) | KR (Korean Register of Shipping)

Industrial Communication

Profibus

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