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Data sheet 6BK1622-0AA00-0AA0



SIMATIC PN/M-Bus LINK coupling module for Profinet to M-Bus Fieldbus, M-Bus Master, IP20

General information	
Product type designation	PN/M-Bus LINK
Firmware version	V1.0.0
● FW update possible	Yes
Product function	
● I&M data	Yes
● Isochronous mode	No
Engineering with	
● STEP 7 TIA Portal configurable/integrated from version	STEP 7 V15 or higher
● PROFINET from GSD version/GSD revision	GSDML V2.3.x
Installation type/mounting	
Mounting	DIN rail, wall mounting, portrait mounting
Mounting position	any
Recommended mounting position	Horizontal
Rail mounting	Yes
Control cabinet installation	Yes
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Overvoltage protection	Yes
Short-circuit protection	Yes
Mains buffering	
● Mains/voltage failure stored energy time	10 ms; PN side
Input current	
Current consumption (rated value)	0.11 A; At 24 V and 5 loads
Current consumption, max.	0.4 A; At 20.4 V, 40 loads + 100 mA short-circuit current
Power loss	
Power loss, typ.	2.4 W
Interfaces	
Supports protocol for PROFINET IO	
● automatic detection of transmission rate	No
● Transmission rate, max.	100 Mbit/s
● Number of RJ45 ports	2
● Number of FC (FastConnect) connections	2
PROFINET functions	
● Assignment of the IP address, supported	Yes

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● Assignment of the device name, supported	Yes
1. Interface	
Interface type	M-Bus master
Isolated	No
Interface types	
● Number of ports	1
● Design of the connection	3-wire screw-type terminal
M-Bus	
● Bus voltage, typ.	36 V
● Transmission rate, min.	300 bit/s
● Transmission rate, max.	9 600 bit/s
● max. number of devices	40
● Short-circuit detection	Yes
● short-circuit proof	Yes
● Connectable conductor cross-section	1.5 mm²
● Cable length, max.	300 m
2. Interface	
Interface type	PROFINET
Isolated	Yes; 1 500 V AC or 2 250 V DC
Interface types	
● RJ 45 (Ethernet)	Yes
● Number of ports	2
● integrated switch	Yes
Protocols	
● PROFINET IO device	Yes
● Open IE communication	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
● RUN LED	Yes
● ERROR LED	Yes
● MAINT LED	Yes
● LINK LED	Yes
● RX/TX LED	Yes
Potential separation	
Potential separation exists	Yes
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
RoHS conformity	Yes
Ecological footprint	
● environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	50.8 kg
— global warming potential, (during production) [CO2 eq]	14.4 kg
— global warming potential, (during operation) [CO2 eq]	36.8 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-0.52 kg
Ambient conditions	
Ambient temperature during operation	
● horizontal installation, min.	-25 °C
● horizontal installation, max.	60 °C
● vertical installation, min.	-25 °C
● vertical installation, max.	55 °C

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● ceiling installation, min.	-25 °C
● ceiling installation, max.	45 °C
● floor installation, min.	-25 °C
● floor installation, max.	45 °C
Ambient temperature during storage/transportation	
● min.	-40 °C
● max.	70 °C
Relative humidity	
● Operation, max.	95 %
Dimensions	
Width	70 mm
Height	112 mm
Depth	75 mm
Weights	
Weight, approx.	215 g

Classifications

	Version	Classification
eClass	16	27-24-22-08
eClass	14	27-24-22-08
eClass	12	27-24-22-08
eClass	9.1	27-24-22-08
eClass	9	27-24-22-08
eClass	8	27-24-22-08
eClass	7.1	27-24-22-08
eClass	6	27-24-22-08
ETIM	10	EC001423
ETIM	9	EC001423
ETIM	8	EC001423
ETIM	7	EC001423
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval			Environment	
Manufacturer Declaration	CE EG-Konf.	EAC	China RoHS	EPD

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