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Data sheet 6ES7158-3AD01-0XA0



Figure similar

*** Spare part *** SIMATIC DP, PN/PN coupler Coupling module for connecting two PROFINET networks Transmission via PROFIsafe Redundant current infeed

General information	
Product type designation	PN/PN coupler
Firmware version	
● FW update possible	Yes
Product function	
● Isochronous mode	No; For operation on isochronous bus
Installation type/mounting	
Mounting	Mounting rail 7.5 mm and 15 mm
Supply voltage	
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
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
Input current	
from supply voltage 1L+, max.	400 mA
Power loss	
Power loss, typ.	6 W
Interfaces	
Transmission rate, max.	100 Mbit/s
1. Interface	
Interface types	
● RJ 45 (Ethernet)	Yes
● Number of ports	2
● integrated switch	Yes
Protocols	
● Media redundancy	Yes; as MRP client
2. Interface	
Interface types	
● RJ 45 (Ethernet)	Yes
● Number of ports	2
● integrated switch	Yes
Protocols	
● Media redundancy	Yes; as MRP client
Interface types	
RJ 45 (Ethernet)	
● 100 Mbps	Yes

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● Autonegotiation	Yes
● Autocrossing	Yes
Protocols	
Supports protocol for PROFINET IO	Yes
Protocols (Ethernet)	
● SNMP	Yes
● ping	Yes
● ARP	Yes
Redundancy mode	
Media redundancy	
— MRP	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	
● LINK LED	Yes; for each port
● Bus fault BF (red)	Yes; for each side
● Group error SF (red)	Yes; for each side
● Monitoring 24 V voltage supply ON (green)	Yes; for each side
Potential separation	
between supply voltage and electronics	Yes; to power input 2
between Ethernet and electronics	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	60 °C
Dimensions	
Width	120 mm; Minimized with good handling
Height	119.5 mm
Depth	75 mm; with mounting rail
Weights	
Weight, approx.	283 g
Classifications	

	Version	Classification
eClass	16	27-24-26-08
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	

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EG-Konf.	Miscellaneous	Manufacturer Declaration	UL	RCM	EAC

General Product Approval	EMV	For use in hazardous locations		
China RoHS	RCM	ATEX	FM	ATEX	UL

For use in hazardous locations	Industrial Communication
IECEx	PROFINET

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