MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7158-3AD00-0XA0

PN/PN COUPLER

Used with the applicable SIMATIC PN/PN configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens PN/PN coupler Installation and Operating Manual, Appendix A

Technical data

A

A.1 Technical data for PN/PN coupler (6ES7158-3AD00-0XA0)

Overview

Dimensions and weight	
Dimensions W x H x D (mm)	120 × 132 × 75
Weight	282 g

Module-specific data	
Transfer rate	• 10 Mbit/s for Ethernet services • 100 Mbit/s full duplex for PROFINET IO
Transmission method	100BASE-TX
Auto negotiation	Yes
Auto crossing	Yes
Internal switch function	Yes
Bus protocol	PROFINET IO TCP/IP
Supported Ethernet services	• ping • arp • Net diagnostics (SNMP) / MIB-2
PROFINET interface	4x RJ45
Manufacturer ID (vendor ID)	$002A_H$
Device ID (DeviceID)	0604_H

Voltages, currents, potentials	
Rated supply voltage	DC 24 V (20.4 V ... 28.8 V)
• Reverse polarity protection	Yes
• Power failure bypass	Min. 5 ms
Electrical isolation of 24 V power supplies	
• Between backplane bus and electronics	
• Between Ethernet and electronics	Yes
• Between power supply and electronics	Incoming supply 1: No Incoming supply 2: Yes
Ungrounded operation possible	Yes
Insulation tested at	DC 500 V
Current consumption from power supply (1L+)	Approx. 400 mA
Power loss	Approx. 6 W

Status, interrupts, diagnostics	
Power supply status display	Yes
Interrupts	No
Diagnostic function	Yes
• Group error for PROFINET IO subnet 1 • Group error for PROFINET IO subnet 2 • Bus fault for PROFINET IO subnet 1 • Bus fault for PROFINET IO subnet 2 • Monitoring of 24 V power supply of subnet 1 • Monitoring of 24 V power supply of subnet 2 • PN/PN coupler in operation	• Red LED "SF1" • Red LED "SF2" • Red LED "BF1" • Red LED "BF2" • Green LED "PS1" • Green LED "PS2" • Green LED "ON"

A.2 General technical data

A.2.1 Introduction

Scope of the general technical data

The general technical data covers:

- The standards and test values that the described components observe and fulfill.
- The test criteria used to test the described components.

The general technical data for the following areas is provided below:

- Standards and approvals
- Electromagnetic compatibility
- Transport and storage conditions
- Mechanical and climatic ambient conditions for operation
- Specifications for insulation tests, safety class and degree of protection
- Rated voltage