

SIMATIC DP, PN/PN coupler Coupling module for connecting of two PROFINET networks Transmission via PROFI-safe redundant current infeed



Figure similar

| General information | |
|--------------------------------------------------------------------------------------------|--------------------------------------|
| Product type designation | PN/PN coupler |
| Firmware version | |
| <ul style="list-style-type: none"> FW update possible | Yes |
| Product function | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> 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 | |
| Supports protocol for PROFINET IO | |
| <ul style="list-style-type: none"> • automatic detection of transmission rate • Transmission rate, max. • Number of RJ45 ports | <p>Yes</p> <p>100 Mbit/s</p> <p>4; 2 for each side</p> |
| 1. Interface | |
| Protocols | |
| <ul style="list-style-type: none"> • Media redundancy | Yes; as MRP client |
| 2. Interface | |
| Protocols | |
| <ul style="list-style-type: none"> • Media redundancy | Yes; as MRP client |
| Protocols | |
| Supports protocol for PROFINET IO | Yes |
| Protocols (Ethernet) | |
| <ul style="list-style-type: none"> • SNMP • ping • ARP | <p>Yes</p> <p>Yes</p> <p>Yes</p> |
| Redundancy mode | |
| <ul style="list-style-type: none"> • MRP | Yes |
| Isochronous mode | |
| Isochronous operation (application synchronized up to terminal) | No; For operation on isochronous bus |
| Interrupts/diagnostics/status information | |
| Status indicator | Yes |
| Alarms | Yes |
| Diagnostics function | Yes |
| Diagnostics indication LED | |
| <ul style="list-style-type: none"> • Bus fault BF (red) • Group error SF (red) • Monitoring 24 V voltage supply ON (green) • Connection to network LINK (green) | <p>Yes; for each side</p> <p>Yes; for each side</p> <p>Yes; for each side</p> <p>Yes; for each port</p> |
| 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

last modified: 11/25/2019