SIEMENS

## Data sheet 6GK1503-3CA00

**Product type designation**

**PROFIBUS OLM P12**

PROFIBUS OLM/P12 V4.0 Optical Link module with 1 RS485 and 2 plastic FOC interfaces (4 BFOC sockets), with signaling contact and test port




| Transmission rate | |
|---|---|
| Transfer rate / with PROFIBUS | 9.6 kbit/s ... 12 Mbit/s |
| Transfer rate / with PROFIBUS PA | 45.45 kbit/s |

| Interfaces | |
|---|---|
| Number of electrical/optical connections / for network components or terminal equipment / maximum | 3 |
| Number of electrical connections | |
| • for network components or terminal equipment | 1 |
| • for measuring device | 1 |
| • for signaling contact | 1 |
| • for power supply | 1 |
| • for redundant voltage supply | 1 |
| Type of electrical connection | |
| • for network components or terminal equipment | 9-pin Sub-D socket |
| • for measuring device | 2-pole terminal block |
| • for power supply | - |
| • for power supply and signaling contact | 5-pole terminal block |
| Number of optical interfaces / for fiber optic cable | 2 |


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| | |
|---|---|
| Design of the optical interface / for fiber optic cable | BFOC port |

| Optical data | |
|---|---|
| Damping ratio / of the FOC transmission link | |
| • for POF FOC with 980/1000 µm / at 230 dB/km | 13 dB |
| propagation delay [bit] | 6.5 bit |
| Connectable optical power relative to 1 mW | |
| • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km | -17 dB |
| • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km | -5 dB |
| Wavelength | |
| • of the FOC transmission link / for PCF FOC with 200/230 µm / at 10 dB/km | 660 nm |
| • of the FOC transmission link / for POF FOC with 980/1000 µm / at 230 dB/km | 660 nm |
| Wire length | |
| • for PCF FOC with 200/230 µm / at 10 dB/km / maximum | 400 m |
| • for POF FOC with 980/1000 µm / at 230 dB/km / maximum | 80 m |

| Signal-Inputs/outputs | |
|---|---|
| Operating voltage / of the signaling contacts / at DC / Rated value | 24 V |
| Operating current / of the signaling contacts / at DC / maximum | 0.1 A |

| Supply voltage, current consumption, power loss | |
|---|---|
| Type of voltage / of the supply voltage | DC |
| Supply voltage / at DC / Rated value | 24 V |
| Supply voltage / at DC | 18.8 ... 28.8 V |
| Product component / fusing at power supply input | Yes |
| Consumed current / at DC / at 24 V / maximum | 0.2 A |

| Permitted ambient conditions | |
|---|---|
| Ambient temperature | |
| • during operation | 0 ... 60 °C |
| • during storage | -40 ... +70 °C |
| • during transport | -40 ... +70 °C |
| Relative humidity / at 25 °C / without condensation / during operation / maximum | 95 % |
| Protection class IP | IP40 |

| Design, dimensions and weight | |
|---|---|
| Design | compact |
| Width | 39.5 mm |


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| | |
|---|---|
| Height | 112 mm |
| Depth | 74.5 mm |
| Net weight | 340 g |
| Mounting type | |
| • 35 mm DIN rail mounting | Yes |
| • wall mounting | Yes |

## Product functions / Redundancy

| | |
|---|---|
| Product function / Ring redundancy | Yes |

## Standards, specifications, approvals

| | |
|---|---|
| Standard | |
| • for FM | FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 |
| • for hazardous zone | EN 60079-0: 2006, EN60079-15: 2005, EN60079-28: 2007, II 3 (2) G Ex nA [opis] IIC T4 KEMA 09 ATEX 0173X |
| • for safety / from CSA and UL | UL 60950-1, CSA C22.2 Nr. 60950-1 |
| • for hazardous zone / from CSA and UL | UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4 |
| • for emitted interference | EN 61000-6-4 (Class A) |
| • for interference immunity | EN 61000-6-2 |
| Certificate of suitability | EN 61000-6-2, EN 61000-6-4 |
| • CE marking | Yes |
| • C-Tick | Yes |
| Marine classification association | |
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • Bureau Veritas (BV) | Yes |
| • Det Norske Veritas (DNV) | Yes |
| • Germanische Lloyd (GL) | Yes |
| • Lloyds Register of Shipping (LRS) | Yes |
| • Nippon Kaiji Kyokai (NK) | Yes |

## Further Information / Internet Links

| | |
|---|---|
| Internet-Link | |
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx Download Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |


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|---|---|
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