## SIEMENS

## Data sheet

Product type designation

## 6GK1503-3CC00

## PROFIBUS OLM/G12-1300 V4.0

PROFIBUS OLM/G12-1300 V4.0 optical link module with 1 RS485 and 2 glass FOC Interfaces (4 BFOC sockets), 1300 Nm shaft Length for large distances with signaling contact and test port



| Transfer 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           | 3                     |  |
| components or terminal equipment / maximum                       |                       |  |
| Number of electrical connections                                 |                       |  |
| <ul> <li>for network components or terminal equipment</li> </ul> | 1                     |  |
| <ul> <li>for measuring device</li> </ul>                         | 1                     |  |
| <ul> <li>for signaling contact</li> </ul>                        | 1                     |  |
| <ul> <li>for power supply</li> </ul>                             | 1                     |  |
| <ul> <li>for redundant voltage supply</li> </ul>                 | 1                     |  |
| Type of electrical connection                                    |                       |  |
| <ul> <li>for network components or terminal equipment</li> </ul> | 9-pin Sub-D socket    |  |
| <ul> <li>for measuring device</li> </ul>                         | 2-pole terminal block |  |
| <ul> <li>for power supply and signaling contact</li> </ul>       | 5-pole terminal block |  |
| Number of optical interfaces / for fiber optic cable             | 2                     |  |
| Design of the optical interface / for fiber optic cable          | BFOC port             |  |

| Optical data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Damping ratio / of the FOC transmission link                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                  |
| <ul> <li>for glass FOC with 10/125 μm or 9/125 μm / at</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8 dB                                                                                                             |
| 0.5 dB/km / maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                  |
| propagation delay [bit]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6.5 bit                                                                                                          |
| Connectable optical power relative to 1 mW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                  |
| <ul> <li>for glass FOC with 10/125 μm or 9/125 μm / at</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -19 dB                                                                                                           |
| 0.5 dB/km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                  |
| Optical sensitivity relating to 1 mW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |
| <ul> <li>for glass FOC with 10/125 μm or 9/125 μm / at</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -29 dB                                                                                                           |
| 0.5 dB/km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                  |
| Wavelength                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                  |
| <ul> <li>for glass FOC with 10/125 μm or 9/125 μm /</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1310 nm                                                                                                          |
| compatible with interface / at 0.5 dB/km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                  |
| Wire length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                  |
| <ul> <li>for glass FOC with 10/125 μm or 9/125 μm / at</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15 km                                                                                                            |
| 0.5 dB/km / maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                  |
| Signal inputs/outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  |
| Operating voltage / of the signaling contacts / at DC /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24 V                                                                                                             |
| Rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                  |
| Operating current / of the signaling contacts / at DC /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1 A                                                                                                            |
| maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                  |
| Supply voltage, current consumption, power loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                  |
| Type of voltage / of the supply voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DC                                                                                                               |
| Type of voltage / of the supply voltage<br>Supply voltage / at DC / Rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DC<br>24 V                                                                                                       |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                  |
| Type of voltage / of the supply voltageSupply voltage / at DC / Rated valueSupply voltage / at DCProduct component / fusing at power supply input                                                                                                                                                                                                                                                                                                                                                                                                                        | 24 V                                                                                                             |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 24 V<br>18.8 28.8 V                                                                                              |
| Type of voltage / of the supply voltageSupply voltage / at DC / Rated valueSupply voltage / at DCProduct component / fusing at power supply inputConsumed current / at DC / at 24 V / maximum                                                                                                                                                                                                                                                                                                                                                                            | 24 V<br>18.8 28.8 V<br>Yes                                                                                       |
| Type of voltage / of the supply voltageSupply voltage / at DC / Rated valueSupply voltage / at DCProduct component / fusing at power supply input                                                                                                                                                                                                                                                                                                                                                                                                                        | 24 V<br>18.8 28.8 V<br>Yes                                                                                       |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions                                                                                                                                                                                                                                                                                                             | 24 V<br>18.8 28.8 V<br>Yes                                                                                       |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature                                                                                                                                                                                                                                                                                 | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A                                                                              |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage                                                                                                                                                                                                                             | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C                                                                   |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport                                                                                                                                                                                                  | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C                                                     |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         Relative humidity                                                                                                                                                                        | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C<br>-40 +70 °C                                       |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         Relative humidity         • at 25 °C / without condensation / during                                                                                                                     | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C                                                     |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         Relative humidity                                                                                                                                                                        | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C<br>-40 +70 °C                                       |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         Relative humidity         • at 25 °C / without condensation / during operation / maximum                                                                                                 | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C<br>-40 +70 °C<br>95 %                               |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         Relative humidity         • at 25 °C / without condensation / during operation / maximum         Protection class IP         Design, dimensions and weights                              | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C<br>-40 +70 °C<br>95 %<br>IP40                       |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         Relative humidity         • at 25 °C / without condensation / during operation / maximum         Protection class IP         Design, dimensions and weights                              | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C<br>-40 +70 °C<br>95 %<br>IP40<br>compact            |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         Relative humidity         • at 25 °C / without condensation / during operation / maximum         Protection class IP         Design, dimensions and weights         Design         Width | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C<br>-40 +70 °C<br>95 %<br>IP40<br>compact<br>39.5 mm |
| Type of voltage / of the supply voltage         Supply voltage / at DC / Rated value         Supply voltage / at DC         Product component / fusing at power supply input         Consumed current / at DC / at 24 V / maximum         Ambient conditions         Ambient temperature         • during operation         • during storage         • during transport         Relative humidity         • at 25 °C / without condensation / during operation / maximum         Protection class IP         Design, dimensions and weights                              | 24 V<br>18.8 28.8 V<br>Yes<br>0.2 A<br>0 60 °C<br>-40 +70 °C<br>-40 +70 °C<br>95 %<br>IP40<br>compact            |

| Product function / Ring redundancy     Yes       Standard     • for FM       • 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, II 3 G Ex nA II T4 KEMA 07 ATEX 0003X       • for safety / from CSA and UL     UL 60950-1, CSA C22, 2 Nr. 60950-1       • for emitted interference     EN 60079-0; 2006, EN60079-15; 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0003X       • for emitted interference     UL 6094 and UL 2279-15 (Hazardous Location), CSA C22, 2 Nr. 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       • CE marking     Yes       • C-Tick     Yes       Marine classification association     Yes       • American Bureau of Shipping Europe Ltd. (ABS)     Yes       • Bureau Veritas (BV)     Yes       • Loyds Register of Shipping (LRS)     Yes       • Licyds Register of Shipping (LRS)     Yes       • Nippon Kaij Kyokai (NK)     Yes       Futnert-Link     http://www.siemens.com/sinst       • to website: Industry Mall     http://www.siemens.com/sinst       • to website: Industry Mall     http://www.siemens.com/sinst/siemens.com       • to website: Industry On                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Net weight                                               | 340 g                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------|
| wall mounting         Yes           Product functions / redundancy         Yes           Product function / Ring redundancy         Yes           Standard         - (or FM           • (or FM         2, Group IIC, T4           • for hazardous zone         EN 60079-0: 2006, EN60079-15: 2005, II 3 G Ex nA II T4 KEMA<br>07 ATEX 0003X           • for safely / fom CSA and UL         UL 60950-1, CSA C22.2 Nr. 60950-1           • for emitted interference         EN 61000-64 (Cass A)           • for emitted interference         EN 61000-64 (Cass A)           • for interference immunity         EN 61000-64 (Cass A)           • for interference immunity         EN 61000-64 (Cass A)           • Criticat of suitability         EN 61000-64 (Cass A)           • Criticat of suitability         Yes           • Criticat Sincation association         Yes           • American Bureau of Shipping Europe Ltd.         Yes           • Bureau Ventas (BV)         Yes           • Loyds Register of Shipping (LRS)         Yes           • Nippon Kaiji Kyokai (NK)         Yes           • Nippon Kaiji Kyokai (NK)         Yes           • Weshits: Industrial communication         http://www.siemens.com/ianatio.ret           • Nippon Kaiji Kyokai (NK)         Yes           • Weshits: Industrial communicati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mounting type                                            |                                                                    |
| Product function / Ring redundancy Standard for FM for FM for hazardous zone for hazardous zone for hazardous zone for action CSA and UL for hazardous zone for emitted interference for emitted interference FN 61000-61 (Class A) for armitted interference FN 61000-6-2 Centration for interference FN 61000-6-2 Centration association for interference FN 61000-6-2 Centration association for american Bureau of Shipping Europe Ltd. (ABS) FUTURE (LSK) FUT | <ul> <li>35 mm DIN rail mounting</li> </ul>              | Yes                                                                |
| Product function / Ring redundancy     Yes       Standard     • for FM       • 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, II 3 G Ex nA II T4 KEMA 07 ATEX 0003X       • for safety / from CSA and UL     UL 60950-1, CSA C22, 2 Nr. 60950-1       • for emitted interference     EN 60079-0; 2006, EN60079-15; 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0003X       • for emitted interference     UL 6094 and UL 2279-15 (Hazardous Location), CSA C22, 2 Nr. 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       • CE marking     Yes       • C-Tick     Yes       Marine classification association     Yes       • American Bureau of Shipping Europe Ltd. (ABS)     Yes       • Bureau Veritas (BV)     Yes       • Loyds Register of Shipping (LRS)     Yes       • Licyds Register of Shipping (LRS)     Yes       • Nippon Kaij Kyokai (NK)     Yes       Futnert-Link     http://www.siemens.com/sinst       • to website: Industry Mall     http://www.siemens.com/sinst       • to website: Industry Mall     http://www.siemens.com/sinst/siemens.com       • to website: Industry On                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • wall mounting                                          | Yes                                                                |
| Standards, specifications, approvals         Standard         • for FM         • for hazardous zone         • for hazardous zone         • for safety / from CSA and UL         • for hazardous zone / from CSA and UL         • for hazardous zone / from CSA and UL         • for hazardous zone / from CSA and UL         • for safety / from CSA and UL         • for emitted interference         • for interference immunity         • for interference immunity         • for interference immunity         • Certificate of suitability         • Det Norske Verit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Product functions / redundancy                           |                                                                    |
| Standard       FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4         • for hazardous zone       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, II 3 G Ex nA II T4 KEMA 07 ATEX 0003X         • for safety / from CSA and UL       UL 60950-1, CSA C22.2 Nr. 60950-1         • for hazardous zone / from CSA and UL       UL 60950-1, CSA C22.2 Nr. 60950-1         • for interference inmunity       UL 604 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 inmunity       EN 61000-6-4 (Class A)         • for interference inmunity       EN 61000-6-2         Certificate of suitability       EN 61000-6-2         • Car marking       Yes         • Car marking       Yes         • Car marking       Yes         • Dat Norske Veritas (BV)       Yes         • Bureau Veritas (BV)       Yes         • Dat Norske Veritas (DNV)       Yes         • Loyds Register of Shipping (LRS)       Yes         • Nippon Kaiji Kyokai (NK)       Yes         Further information / Internet-Links       http://www.siemens.com/snst         Intermet-Link       http://www.siemens.com/snst         • to website: Indust                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Product function / Ring redundancy                       | Yes                                                                |
| <ul> <li>for FM</li> <li>FM3611: Class 1, Division 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4</li> <li>for hazardous zone</li> <li>for safety / from CSA and UL</li> <li>UL 60950-1, CSA C22.2 Nr. 60950-1</li> <li>for safety / from CSA and UL</li> <li>UL 60950-1, CSA C22.2 Nr. 60950-1</li> <li>UL 60950-1, CSA C22.2 Nr. 60950-1</li> <li>UL 60950-1, CSA C22.2 Nr. 60950-1</li> <li>UL 6004 and UL 2279-15 (Hazardous Location), CSA C22.2 Nr. 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4</li> <li>for emitted interference</li> <li>for interference immunity</li> <li>EN 61000-6-2</li> <li>Certificate of suitability</li> <li>CC-Tick</li> <li>Ke 1000-6-2</li> <li>Ke 1000-6-2</li> <li>Certificate of suitability</li> <li>Ves</li> <li>Certificate of suitability</li> <li>Certificate of suitability</li> <li>Certificate of suitability</li> <li>Ves</li> <li>Certificate of suitability</li> <li>Ves</li> <li>Superior of Shipping Europe Ltd.</li> <li>American Bureau of Shipping Lorope Ltd.</li> <li>Ves</li> <li>Germanische Lloyd (GL)</li> <li>Ves</li> <li>Certificate of Suitability</li> <li>Ves</li> <li>Ves</li></ul>                                                                                                                                                                                                                                                                       | Standards, specifications, approvals                     |                                                                    |
| 2, Group IIC, T4         • for hazardous zone         • for safety / from CSA and UL         • for safety / from CSA and UL         • for safety / from CSA and UL         • for hazardous zone / from CSA and UL         • for nazardous zone / from CSA and UL         • for instantion / from CSA and UL         • for instantion / interference         • for interference immunity         • for interference immunity         • For interference immunity         • Certificate of suitability         • Certitate of suitability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Standard                                                 |                                                                    |
| 97 ATEX 0003X         • 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.         • for hazardous zone / from CSA and UL       UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No.         • for emitted interference       EN 61000-6-4 (Class A)         • for interference immunity       EN 61000-6-2 (Class A)         • for interference immunity       EN 61000-6-2, EN 61000-6-4         • CE marking       Yes         • CE marking       Yes         • CE marking       Yes         • Carrica B Ureau of Shipping Europe Ltd. (ABS)       Yes         • Bureau Veritas (BV)       Yes         • Bureau Veritas (BV)       Yes         • Det Norske Veritas (DNV)       Yes         • Germanische Lloyd (GL)       Yes         • Nippon Kaiji Kyokai (NK)       Yes         • Nippon Kaiji Kyokai (NK)       Yes         • Nippon Kaiji Kyokai (NK)       Yes         • to website: Industrial communication       http://www.siemens.com/sinst         • to website: Industry Mall       http://www.siemens.com/sinst         • to website: Industry Mall       http://www.siemens.com/sinst         • to website: Industry Mall       http://www.siemens.com/sinst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ● for FM                                                 |                                                                    |
| <ul> <li>for hazardous zone / from CSA and UL</li> <li>for hazardous zone / from CSA and UL</li> <li>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</li> <li>for emitted interference</li> <li>EN 61000-6-4 (Class A)</li> <li>for interference immunity</li> <li>EN 61000-6-2</li> <li>Certificate of suitability</li> <li>CA for anxing</li> <li>C-Tick</li> <li>Marine classification association</li> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>Bureau Veritas (BV)</li> <li>Yes</li> <li>Germanische Lloyd (GL)</li> <li>Yes</li> <li>Certificmet of Shipping (LRS)</li> <li>Ves</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Yes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ● for hazardous zone                                     |                                                                    |
| 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 /         e for emitted interference       EN 61000-6-4 (Class A)         e for interference immunity       EN 61000-6-2         Certificate of suitability       EN 61000-6-2         • Certificate of suitability       Yes         • C-Tick       Yes         Marine classification association       Yes         • American Bureau of Shipping Europe Ltd. (ABS)       Yes         • Bureau Veritas (BV)       Yes         • Det Norske Veritas (DNV)       Yes         • Lloyds Register of Shipping (LRS)       Yes         • Nippon Kaiji Kyokai (NK)       Yes         Further information / Internet-Links         Internet-Link       http://www.siemens.com/snst         sELECTION TOOL       http://www.siemens.com/snst         • to website: Industrial communication       http://www.siemens.com/simatic-net         • to website: Industry Mall       http://www.siemens.com/industry.infocenter         • to website: Industry Mall       http://www.siemens.com/industry.infocenter         • to website: CAx Download Manager       http://www.siemens.com/ax <td><ul> <li>for safety / from CSA and UL</li> </ul></td> <td>UL 60950-1, CSA C22.2 Nr. 60950-1</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul> <li>for safety / from CSA and UL</li> </ul>         | UL 60950-1, CSA C22.2 Nr. 60950-1                                  |
| • for interference immunityEN 61000-6-2Certificate of suitability<br>• CE marking<br>• CTickEN 61000-6-2, EN 61000-6-4• CE marking<br>• CTickYes• CTickYesMarine classification association<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul> <li>for hazardous zone / from CSA and UL</li> </ul> | 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / |
| Certificate of suitability     EN 61000-6-2, EN 61000-6-4       Certificate of suitability     Yes       C-Tick     Yes       Marine classification association     Yes       American Bureau of Shipping Europe Ltd.<br>(ABS)     Yes       Bureau Veritas (BV)     Yes       Det Norske Veritas (DNV)     Yes       Germanische Lloyd (GL)     Yes       Germanische Lloyd (GL)     Yes       Nippon Kaliji Kyokai (NK)     Yes       Further information / Internet-Links     Internet-Link       Internet-Link     http://www.siemens.com/sinstic-net       i to website: Selector SIMATIC NET     http://www.siemens.com/sinstic-net       i to website: Industrial communication     http://www.siemens.com/sinstic-net       i to website: Industry Mall     http://www.siemens.com/sinstic-net       i to website: Industry Mall     http://www.siemens.com/fuldstry/infocenter       i to website: Industry Mall     http://www.siemens.com/fuldstry/infocenter       i to website: Industry Online Support     http://www.siemens.com/fuldstry/infocenter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul> <li>for emitted interference</li> </ul>             | EN 61000-6-4 (Class A)                                             |
| • CE marking<br>• C-TickYesMarine classification association<br>• American Bureau of Shipping Europe Ltd.<br>(ABS)Yes• Bureau Veritas (BV)Yes• Det Norske Veritas (DNV)Yes• Cermanische Lloyd (GL)Yes• Cermanische Lloyd (GL)Yes• Nippon Kaiji Kyokai (NK)Yes• Eutret-LinkYes• to website: Selector SIMATIC NET<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul> <li>for interference immunity</li> </ul>            | EN 61000-6-2                                                       |
| internation       Yes         Marine classification association       -         American Bureau of Shipping Europe Ltd       Yes         (ABS)       Yes         Bureau Veritas (BV)       Yes         Det Norske Veritas (DNV)       Yes         Germanische Lloyd (GL)       Yes         Nippon Kaiji Kyokai (NK)       Yes         Further information / Internet-Links         Internet-Link       -         to website: Selector SIMATIC NET       http://www.siemens.com/snst         SELECTION TOOL       -         to website: Industrial communication       http://www.siemens.com/snst         to website: Industrial communication       http://www.siemens.com/industry/infocenter         to website: Industry Mall       http://www.siemens.com/industry/infocenter         to website: Industry Online Support       http://www.siemens.com/industry/infocenter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Certificate of suitability                               | EN 61000-6-2, EN 61000-6-4                                         |
| Marine classification association       Hermitian 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       thtp://www.siemens.com/snst         • to website: Selector SIMATIC NET       http://www.siemens.com/simatic-net         • to website: Industrial communication       http://www.siemens.com/simatic-net         • to website: Industrial communication       http://www.siemens.com/simatic-net         • to website: Industry Mall       http://www.siemens.com/industry/infocenter         • to website: Industry Online Support       http://www.siemens.com/industry.siemens.com/industry.infocenter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | • CE marking                                             | Yes                                                                |
| • American Bureau of Shipping Europe Ltd.<br>(ABS)Yes• Bureau Veritas (BV)Yes• Det Norske Veritas (DNV)Yes• Germanische Lloyd (GL)Yes• Cloyds Register of Shipping (LRS)Yes• Nippon Kaiji Kyokai (NK)YesFurther information / Internet-LinksYesInternet-Linkhttp://www.siemens.com/snst• to website: Selector SIMATIC NEThttp://www.siemens.com/snst• to website: Industrial communicationhttp://www.siemens.com/simatic-net• to website: Industrial communicationhttp://www.siemens.com/simatic-net• to website: Industry Mallhttp://www.siemens.com/simatic-net• to website: Industry Mallhttp://www.siemens.com/simatic-net• to website: Industry Mallhttp://www.siemens.com/bindustry/infocenter• to website: CAx Download Managerhttp://www.siemens.com/bindustry/infocenter• to website: Industry Online Supporthttp://www.siemens.com/cax• to website: Industry Online Supporthttp://www.siemens.com/cax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • C-Tick                                                 | Yes                                                                |
| (ABS)Yes• Bureau Veritas (BV)Yes• Det Norske Veritas (DNV)Yes• Germanische Lloyd (GL)Yes• Germanische Lloyd (GL)Yes• Lloyds Register of Shipping (LRS)Yes• Nippon Kaiji Kyokai (NK)YesEutther information / Internet-LinksInternet-Linkhttp://www.siemens.com/snst• to website: Selector SIMATIC NEThttp://www.siemens.com/snst• to website: Industrial communicationhttp://www.siemens.com/snst• to website: Industrial communicationhttp://www.siemens.com/industry/infocenter• to website: Industry Mallhttp://www.siemens.com/industry/infocenter• to website: Industry Online Supporthttp://www.siemens.com/cax• to website: Industry Online Supporthttp://www.siemens.com/cax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Marine classification association                        |                                                                    |
| <ul> <li>Det Norske Veritas (DNV)</li> <li>Yes</li> <li>Germanische Lloyd (GL)</li> <li>Yes</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Yes</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Yes</li> </ul> Further information / Internet-Links Internet-Link <ul> <li>to website: Selector SIMATIC NET</li> <li>to website: Industrial communication</li> <li>http://www.siemens.com/simatic-net</li> <li>to website: Industry Mall</li> <li>http://www.siemens.com/industry/infocenter</li> <li>to website: Information and Download Center</li> <li>http://automation.siemens.com/bilddb</li> <li>to website: Inage database</li> <li>http://www.siemens.com/cax</li> <li>to website: Industry Online Support</li> <li>http://support.industry.siemens.com</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | Yes                                                                |
| • Germanische Lloyd (GL)Yes• Lloyds Register of Shipping (LRS)Yes• Nippon Kaiji Kyokai (NK)YesFurther information / Internet-LinksInternet-Linkhttp://www.siemens.com/snst• to website: Selector SIMATIC NEThttp://www.siemens.com/snstSELECTION TOOLhttp://www.siemens.com/simatic-net• to website: Industrial communicationhttp://www.siemens.com/simatic-net• to website: Industry Mallhttp://www.siemens.com/industry/infocenter• to website: Industry Mallhttp://www.siemens.com/industry/infocenter• to website: Inage databasehttp://automation.siemens.com/bilddb• to website: CAx Download Managerhttp://www.siemens.com/cax• to website: Industry Online Supporthttps://support.industry.siemens.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | • Bureau Veritas (BV)                                    | Yes                                                                |
| <ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Yes</li> <li>Further information / Internet-Links</li> <li>Internet-Link         <ul> <li>to website: Selector SIMATIC NET</li> <li>bttp://www.siemens.com/snst</li> </ul> </li> <li>SELECTION TOOL         <ul> <li>to website: Industrial communication</li> <li>http://www.siemens.com/simatic-net</li> <li>to website: Industry Mall</li> <li>http://www.siemens.com/simatic-net</li> <li>to website: Information and Download Center</li> <li>http://www.siemens.com/industry/infocenter</li> <li>to website: Image database</li> <li>http://www.siemens.com/bilddb</li> <li>to website: CAx Download Manager</li> <li>to website: Industry Online Support</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul> <li>Det Norske Veritas (DNV)</li> </ul>             | Yes                                                                |
| <ul> <li>Nippon Kaiji Kyokai (NK)</li> <li>Yes</li> </ul> Further information / Internet-Links           Internet-Link         http://www.siemens.com/snst           • to website: Selector SIMATIC NET         http://www.siemens.com/snst           SELECTION TOOL         http://www.siemens.com/simatic-net           • to website: Industrial communication         http://www.siemens.com/simatic-net           • to website: Industry Mall         http://www.siemens.com/           • to website: Information and Download Center         http://www.siemens.com/industry/infocenter           • to website: Image database         http://www.siemens.com/bilddb           • to website: CAx Download Manager         http://www.siemens.com/cax           • to website: Industry Online Support         http://siemens.com/cax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul> <li>Germanische Lloyd (GL)</li> </ul>               | Yes                                                                |
| Further information / Internet-Links         Internet-Link       http://www.siemens.com/snst         • to website: Selector SIMATIC NET       http://www.siemens.com/snst         SELECTION TOOL       http://www.siemens.com/simatic-net         • to website: Industrial communication       http://www.siemens.com/simatic-net         • to website: Industry Mall       http://www.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       http://support.industry.siemens.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>    | Yes                                                                |
| Internet-Link       http://www.siemens.com/snst         • to website: Selector SIMATIC NET       http://www.siemens.com/snst         SELECTION TOOL       http://www.siemens.com/simatic-net         • 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>             | Yes                                                                |
| • to website: Selector SIMATIC NET<br>SELECTION TOOLhttp://www.siemens.com/snst• to website: Industrial communicationhttp://www.siemens.com/simatic-net• to website: Industry Mallhttp://mall.industry.siemens.com• to website: Information and Download Centerhttp://www.siemens.com/industry/infocenter• to website: Image databasehttp://automation.siemens.com/bilddb• to website: CAx Download Managerhttp://www.siemens.com/cax• to website: Industry Online Supporthttp://support.industry.siemens.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Further information / Internet-Links                     |                                                                    |
| SELECTION TOOL       http://www.siemens.com/simatic-net         • 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Internet-Link                                            |                                                                    |
| • to website: Industry Mallhttps://mall.industry.siemens.com• to website: Information and Download Centerhttp://www.siemens.com/industry/infocenter• to website: Image databasehttp://automation.siemens.com/bilddb• to website: CAx Download Managerhttp://www.siemens.com/cax• to website: Industry Online Supporthttps://support.industry.siemens.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          | http://www.siemens.com/snst                                        |
| • 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       http://support.industry.siemens.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • to website: Industrial communication                   | http://www.siemens.com/simatic-net                                 |
| • 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | • to website: Industry Mall                              | https://mall.industry.siemens.com                                  |
| • to website: CAx Download Manager     http://www.siemens.com/cax       • to website: Industry Online Support     https://support.industry.siemens.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | • to website: Information and Download Center            | http://www.siemens.com/industry/infocenter                         |
| to website: Industry Online Support <u>https://support.industry.siemens.com</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • to website: Image database                             | http://automation.siemens.com/bilddb                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • to website: CAx Download Manager                       | http://www.siemens.com/cax                                         |
| Security information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | • to website: Industry Online Support                    | https://support.industry.siemens.com                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Security information                                     |                                                                    |

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Thirdparty products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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