

SCALANCE XR324-4M EEC; Managed IE switch, 19" rack; 16x 10/100/1000 Mbit/s for RJ45 ports electrical; 4x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics; error signaling Contact; Select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager; Power supply 2x 230 V AC; Ports at the back.



| product type designation                               |                                                                                                     |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| product brand name                                     | SCALANCE                                                                                            |
| product type designation                               | XR324-4M EEC                                                                                        |
| Technical Product Detail Page                          | <a href="https://i.siemens.com/1P6GK5324-4GG10-4JR2">https://i.siemens.com/1P6GK5324-4GG10-4JR2</a> |
| transfer rate                                          |                                                                                                     |
| transfer rate                                          | 10, 100, 1000 Mbit/s                                                                                |
| interfaces / for communication / integrated            |                                                                                                     |
| number of electrical connections                       |                                                                                                     |
| • for network components or terminal equipment         | 16; RJ45                                                                                            |
| number of 100 Mbit/s ST(BFOC) ports                    |                                                                                                     |
| • for multimode                                        | 8                                                                                                   |
| number of 100 Mbit/s SC ports                          |                                                                                                     |
| • for multimode                                        | 8                                                                                                   |
| interfaces / other                                     |                                                                                                     |
| number of electrical connections                       |                                                                                                     |
| • for operator console                                 | 1                                                                                                   |
| • for signaling contact                                | 1                                                                                                   |
| • for media module                                     | 4                                                                                                   |
| • for power supply                                     | 2                                                                                                   |
| type of electrical connection                          |                                                                                                     |
| • for operator console                                 | RJ11                                                                                                |
| • for signaling contact                                | 2 x 3-pole terminal block                                                                           |
| • for power supply                                     | 2 x 3-pole terminal block                                                                           |
| design of the removable storage                        |                                                                                                     |
| • C-PLUG                                               | Yes                                                                                                 |
| operating voltage / of the signaling contacts          |                                                                                                     |
| • at AC / rated value                                  | 276 V                                                                                               |
| • at DC / rated value                                  | 230 V                                                                                               |
| operational current / of the signaling contacts        |                                                                                                     |
| • at AC / maximum                                      | 5 A                                                                                                 |
| • at DC / maximum                                      | 0.1 A                                                                                               |
| supply voltage, current consumption, power loss        |                                                                                                     |
| type of voltage supply / redundant power supply unit   | Yes                                                                                                 |
| type of voltage / 1 / of the supply voltage            | AC                                                                                                  |
| • supply voltage / 1 / rated value                     | 230 V                                                                                               |
| • power loss [W] / 1 / rated value                     | 42 W                                                                                                |
| • supply voltage / 1 / voltage range                   | 80 ... 276                                                                                          |
| • consumed current / 1 / maximum                       | 0.7 A                                                                                               |
| • type of electrical connection / 1 / for power supply | 2 x 3-pole terminal block                                                                           |

|                                                                                                                  |                                                                                                                                                                                                     |
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| <ul style="list-style-type: none"> <li>• product component / 1 / fusing at power supply input</li> </ul>         | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• fuse protection type / 1 / at input for supply voltage</li> </ul>       | 3,15 A / 250 V                                                                                                                                                                                      |
| <b>type of voltage / 2 / of the supply voltage</b>                                                               | DC                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• power loss [W] / 2 / rated value</li> </ul>                             | 42 W                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• consumed current / 2 / at rated supply voltage / maximum</li> </ul>     | 0.7 A                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• supply voltage / 2 / voltage range</li> </ul>                           | 60 ... 250                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>• type of electrical connection / 2 / for power supply</li> </ul>         | 2 x 3-pole terminal block                                                                                                                                                                           |
| <b>ambient conditions</b>                                                                                        |                                                                                                                                                                                                     |
| ambient temperature                                                                                              |                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>                                             | -40 ... +70 °C                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>                                               | -40 ... +85 °C                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>                                             | -40 ... +85 °C                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• note</li> </ul>                                                         | Extended temperature upper limit of +85° C permitted for 16 hours. Reduced operating temperature through the use of media modules (-40 °C to +70 °C) or SFP plug-in transceivers (-40 °C to +60 °C) |
| relative humidity                                                                                                |                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• at 25 °C / without condensation / during operation / maximum</li> </ul> | 95 %                                                                                                                                                                                                |
| protection class IP                                                                                              | IP20                                                                                                                                                                                                |
| <b>design, dimensions and weights</b>                                                                            |                                                                                                                                                                                                     |
| design                                                                                                           | 19-inch rack                                                                                                                                                                                        |
| number of modular height units / relating to 19-inch cabinet                                                     | 1                                                                                                                                                                                                   |
| width                                                                                                            | 483 mm                                                                                                                                                                                              |
| height                                                                                                           | 44 mm                                                                                                                                                                                               |
| depth                                                                                                            | 305 mm                                                                                                                                                                                              |
| net weight                                                                                                       | 7 kg                                                                                                                                                                                                |
| fastening method                                                                                                 | When used in shipbuilding, the device must be secured in the 19" rack at four points                                                                                                                |
| <ul style="list-style-type: none"> <li>• 19-inch installation</li> </ul>                                         | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• 35 mm DIN-rail mounting</li> </ul>                                      | No                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• wall mounting</li> </ul>                                                | No                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul>                                         | No                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• S7-1500 rail mounting</li> </ul>                                        | No                                                                                                                                                                                                  |
| <b>product features, product functions, product components / general</b>                                         |                                                                                                                                                                                                     |
| cascading in the case of a redundant ring / at reconfiguration time of <1~0.31~s                                 | 100                                                                                                                                                                                                 |
| cascading in cases of star topology                                                                              | any (depending only on signal propagation time)                                                                                                                                                     |
| <b>product functions / management, configuration, engineering</b>                                                |                                                                                                                                                                                                     |
| product function                                                                                                 |                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• CLI</li> </ul>                                                          | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• web-based management</li> </ul>                                         | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• MIB support</li> </ul>                                                  | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• TRAPs via email</li> </ul>                                              | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• configuration with STEP 7</li> </ul>                                    | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• RMON</li> </ul>                                                         | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• port mirroring</li> </ul>                                               | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• multiport mirroring</li> </ul>                                          | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• CoS</li> </ul>                                                          | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• PROFINET IO diagnosis</li> </ul>                                        | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• switch-managed</li> </ul>                                               | Yes                                                                                                                                                                                                 |
| PROFINET conformity class                                                                                        | B                                                                                                                                                                                                   |
| protocol / is supported                                                                                          |                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• Telnet</li> </ul>                                                       | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• HTTP</li> </ul>                                                         | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• HTTPS</li> </ul>                                                        | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• TFTP</li> </ul>                                                         | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• FTP</li> </ul>                                                          | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• BOOTP</li> </ul>                                                        | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• GMRP</li> </ul>                                                         | Yes                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• DCP</li> </ul>                                                          | Yes                                                                                                                                                                                                 |

|                                                                                                                  |     |
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| <ul style="list-style-type: none"> <li>• LLDP</li> </ul>                                                         | Yes |
| <ul style="list-style-type: none"> <li>• SNMP v1</li> </ul>                                                      | Yes |
| <ul style="list-style-type: none"> <li>• SNMP v2</li> </ul>                                                      | Yes |
| <ul style="list-style-type: none"> <li>• SNMP v3</li> </ul>                                                      | Yes |
| <ul style="list-style-type: none"> <li>• IGMP (snooping/querier)</li> </ul>                                      | Yes |
| identification & maintenance function                                                                            |     |
| <ul style="list-style-type: none"> <li>• I&amp;M0 - device-specific information</li> </ul>                       | Yes |
| <ul style="list-style-type: none"> <li>• I&amp;M1 - higher level designation/location designation</li> </ul>     | Yes |
| <b>product functions / diagnostics</b>                                                                           |     |
| product function                                                                                                 |     |
| <ul style="list-style-type: none"> <li>• port diagnostics</li> </ul>                                             | Yes |
| <ul style="list-style-type: none"> <li>• statistics Packet Size</li> </ul>                                       | Yes |
| <ul style="list-style-type: none"> <li>• statistics packet type</li> </ul>                                       | Yes |
| <ul style="list-style-type: none"> <li>• error statistics</li> </ul>                                             | Yes |
| <ul style="list-style-type: none"> <li>• SysLog</li> </ul>                                                       | Yes |
| <b>product functions / VLAN</b>                                                                                  |     |
| product function                                                                                                 |     |
| <ul style="list-style-type: none"> <li>• VLAN - port based</li> </ul>                                            | Yes |
| <ul style="list-style-type: none"> <li>• VLAN - protocol-based</li> </ul>                                        | No  |
| <ul style="list-style-type: none"> <li>• VLAN - IP-based</li> </ul>                                              | No  |
| <ul style="list-style-type: none"> <li>• VLAN dynamic</li> </ul>                                                 | Yes |
| number of VLANs / maximum                                                                                        | 255 |
| number of VLANs - dynamic / maximum                                                                              | 255 |
| <b>product functions / DHCP</b>                                                                                  |     |
| product function                                                                                                 |     |
| <ul style="list-style-type: none"> <li>• DHCP client</li> </ul>                                                  | Yes |
| <ul style="list-style-type: none"> <li>• DHCP Option 82</li> </ul>                                               | Yes |
| <ul style="list-style-type: none"> <li>• DHCP Option 66</li> </ul>                                               | Yes |
| <ul style="list-style-type: none"> <li>• DHCP Option 67</li> </ul>                                               | Yes |
| <b>product functions / redundancy</b>                                                                            |     |
| protocol / is supported / Media Redundancy Protocol (MRP)                                                        | Yes |
| product function                                                                                                 |     |
| <ul style="list-style-type: none"> <li>• media redundancy protocol (MRP) with redundancy manager</li> </ul>      | Yes |
| <ul style="list-style-type: none"> <li>• ring redundancy</li> </ul>                                              | Yes |
| <ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with redundancy manager</li> </ul> | Yes |
| <ul style="list-style-type: none"> <li>• high speed redundancy protocol (HRP) with standby redundancy</li> </ul> | Yes |
| <ul style="list-style-type: none"> <li>• redundancy procedure STP</li> </ul>                                     | Yes |
| <ul style="list-style-type: none"> <li>• redundancy procedure RSTP</li> </ul>                                    | Yes |
| <ul style="list-style-type: none"> <li>• redundancy procedure MSTP</li> </ul>                                    | Yes |
| <ul style="list-style-type: none"> <li>• passive listening</li> </ul>                                            | Yes |
| protocol / is supported                                                                                          |     |
| <ul style="list-style-type: none"> <li>• STP/RSTP</li> </ul>                                                     | Yes |
| <ul style="list-style-type: none"> <li>• STP</li> </ul>                                                          | Yes |
| <ul style="list-style-type: none"> <li>• RSTP</li> </ul>                                                         | Yes |
| <ul style="list-style-type: none"> <li>• MSTP</li> </ul>                                                         | Yes |
| <ul style="list-style-type: none"> <li>• RSTP big network support</li> </ul>                                     | Yes |
| <ul style="list-style-type: none"> <li>• LACP</li> </ul>                                                         | Yes |
| <b>product functions / security</b>                                                                              |     |
| product function                                                                                                 |     |
| <ul style="list-style-type: none"> <li>• IEEE 802.1x (radius)</li> </ul>                                         | Yes |
| <ul style="list-style-type: none"> <li>• broadcast/multicast/unicast limiter</li> </ul>                          | Yes |
| <ul style="list-style-type: none"> <li>• broadcast blocking</li> </ul>                                           | Yes |
| protocol / is supported                                                                                          |     |
| <ul style="list-style-type: none"> <li>• SSH</li> </ul>                                                          | Yes |
| <b>product functions / time</b>                                                                                  |     |
| product function                                                                                                 |     |

|                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• SICLOCK support</li> </ul>                                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| protocol / is supported                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• NTP</li> </ul>                                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• SNTP</li> </ul>                                                  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• IEEE 1588 profile default</li> </ul>                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>standards, specifications, approvals</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| certificate of suitability                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• CE marking</li> </ul>                                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• UKCA marking</li> </ul>                                          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• cULus approval</li> </ul>                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• KC approval</li> </ul>                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• Regulatory Compliance Mark (RCM)</li> </ul>                      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| standard                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• for EMC</li> </ul>                                               | IEC 61850, IEEE 1613                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• for EMC interference emission</li> </ul>                         | EN 61000-6-4:2007 (Class A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• for immunity to EMC</li> </ul>                                   | EN 61000-6-2:2005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> </ul>                          | UL 508, CSA C22.2 No. 142-M1987                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>standards, specifications, approvals / other</b>                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| certificate of suitability                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• IEC 61850-3</li> </ul>                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>                                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| resistance to air pollution / conformity according to ANSI/ISA-71.04                                      | Yes; G3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>standards, specifications, approvals / marine classification</b>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| certificate of suitability / shipbuilding approval / note                                                 | Certifications marked 'No' are currently under renewal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Marine classification association                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>                              | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• Royal Institution of Naval Architects (RINA)</li> </ul>          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>standards, specifications, approvals / Environmental Product Declaration</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Environmental Product Declaration                                                                         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| global warming potential [CO2 eq]                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• total</li> </ul>                                                 | 601.38 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>• during manufacturing</li> </ul>                                  | 207 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>                                      | 393.44999 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>• after end of life</li> </ul>                                     | 0.93 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>product functions / general</b>                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MTBF                                                                                                      | 20 a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| warranty period                                                                                           | 5 a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>further information / internet links</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| internet link                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> </ul> | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> </ul>         | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>                  | <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• to web page: SiePortal</li> </ul>                                | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>                            | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• to website: CAX-Download-Manager</li> </ul>                      | <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>                   | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>security information</b>                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| security information                                                                                      | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available |

and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

Approvals / Certificates

| Environmental Product Declaration                          |                          |
|------------------------------------------------------------|--------------------------|
| • global warming potential [CO2 eq] / during manufacturing | 207 kg                   |
| • global warming potential [CO2 eq] / during operation     | 393.45 kg                |
| • global warming potential [CO2 eq] / after end of life    | 0.93 kg                  |
| • global warming potential [CO2 eq] / total                | 601.38 kg                |
| Environment                                                | General Product Approval |



[Declaration of Conformity](#)



| General Product Approval | Test Certificates | Maritime application |
|--------------------------|-------------------|----------------------|
|--------------------------|-------------------|----------------------|



[China RoHS](#)

[Type Test Certificates/Test Report](#)



| Maritime application |
|----------------------|
|----------------------|



[NK / Nippon Kaiji Kyokai](#)



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