## SIEMENS

## Data sheet

## 6GK5334-3TS00-2AR3

SCALANCE XR322-12; managed layer 2; IE switch, 19" rack; 20x 100/1000 Mbps RJ45 port; 2x 1G/2.5G/5G/10 Gbps RJ45 port, 4x 100M/1G SFP port; 8x 1G/10G SFP+ port; LED diagnostics; error signaling contact; select/set button; PROFINET IO device; network management; integrated redundancy manager; office features (RSTP, VLAN, IGMP,...); CLP included in scope of supply; power supply 24 V DC;



product type designation	
product brand name	SCALANCE
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, 5 Gbit/s, 10 Gbit/s
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	22; RJ45
number of 10/100/1000 Mbit/s RJ45 ports	
• with securing collar	22
number of 1000/2500/5000/10000 Mbps RJ45 ports / with securing collar	2
number of electrical connections	
• for SFP	4; 100 Mbps and 1000 Mbps SFP usable
• for SFP+	8; 1000 Mbps and 10000 Mbps SFP usable
interfaces / other	
number of electrical connections	
<ul> <li>for operator console</li> </ul>	1
<ul> <li>for signaling contact</li> </ul>	1
<ul> <li>for power supply</li> </ul>	1
type of electrical connection	
<ul> <li>for operator console</li> </ul>	USB (2.0 Port, Type B, serial via USB)
<ul> <li>for signaling contact</li> </ul>	2-pole terminal block
<ul> <li>for power supply</li> </ul>	2 x 2-pin terminal block
design of the removable storage	
• CLP	Yes
operating voltage / of the signaling contacts	
<ul> <li>at AC / rated value</li> </ul>	24 V
at DC / rated value	24 V
operational current / of the signaling contacts	
• at DC / maximum	0.1 A
supply voltage, current consumption, power loss	
product component / connection for redundant voltage supply	Yes
type of voltage supply / redundant power supply unit	No
type of voltage / 1 / of the supply voltage	DC
<ul> <li>supply voltage / 1 / rated value</li> </ul>	24 V
<ul> <li>power loss [W] / 1 / rated value</li> </ul>	72 W
<ul> <li>supply voltage / 1 / rated value</li> </ul>	19.2 31.2 V
<ul> <li>consumed current / 1 / maximum</li> </ul>	3 A
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	2 x 2-pole terminal block
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes



fuse protection type / 1 / at input for supply voltage	F 10 A / 250 V			
type of voltage / 2 / of the supply voltage	AC (50 / 60Hz)			
<ul> <li>supply voltage / 2 / rated value</li> </ul>	24 V			
power loss [W] / 2 / rated value	72 W			
<ul> <li>supply voltage / 2 / rated value</li> </ul>	19.2 30 V			
<ul> <li>consumed current / 2 / maximum</li> </ul>	3 A			
<ul> <li>type of electrical connection / 2 / for power supply</li> </ul>	2 x 2-pole terminal block			
<ul> <li>fuse protection type / 2 / at input for supply voltage</li> </ul>	F 10 A / 250 V			
ambient conditions				
ambient temperature / in horizontal mounting position / during operation	-40 +60 °C; Starting at -40 °C; The maximum ambient temperature during operation depends on the operating height and the plug-in transceivers, see also manual.			
installation altitude / at height above sea level / maximum	4000 m			
relative humidity				
<ul> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	95 %			
operating condition / fanless operation	Yes			
protection class IP	IP20			
design, dimensions and weights				
design	19" rack			
number of modular height units / relating to 19-inch cabinet	1			
width	446 mm			
height	43.6 mm			
depth	374.8 mm			
net weight	8 kg			
material / of the enclosure	metal			
fastening method				
• 19-inch installation	Yes			
product features, product functions, product components / gene				
cascading in the case of a redundant ring / at reconfiguration	50			
time of <\~0.3\~s				
cascading in cases of star topology	any (depending only on signal propagation time)			
number of automatically learnable MAC addresses	16382			
number of QoS queues / per port	8			
product function				
<ul> <li>QoS according to IEEE 802.1Q</li> </ul>	Yes			
product feature				
<ul> <li>Store &amp; Forward switching method</li> </ul>	Yes			
product functions / management, configuration, engineering				
product function				
• CLI	Yes			
web-based management	Yes			
MIB support	Yes			
TRAPs via email	Yes			
configuration with STEP 7	Yes			
RMON	Yes			
SMTP server	No			
port mirroring	Yes			
multiport mirroring     Enconsulated Remete Traffic Mirroring (ERTM)	Yes			
Encapsulated Remote Traffic Mirroring (ERTM)	Yes			
• CoS	Yes			
PROFINET IO diagnosis	Yes			
• switch-managed	Yes			
PROFINET conformity class	В			
network load class / according to PROFINET	3			
telegram length / for Ethernet / maximum	9194 byte			
protocol / is supported				
Telnet	Yes			
• HTTP	Yes			
• HTTPS	Yes			
• TFTP	Yes			
• FTP	Yes			



• SFTPYes• SFTPYes• CMAPYes• CMAPYes• CMAPYes• CMAPYes• CMAPYes• CMAPYes• CMAP /-1Yes• SMAP /-2Yes• SMAP /-3Yes• SMAP /-3Yes		
• ACTOONFVis• CMAPYis• CMAPYis• CDAPYis• CDAPYis• EnterNatPIPYis• SINNP v1Yis• SINNP v2Yis• SINNP v3Yis• SI	• SFTP	Yes
NAMPYes• LDPYes• EntrafectiPYes• EntrafectiPYes<	• BOOTP	Yes
ODPYes• LDPYes• SNNP v1Yes• SNNP v2Yes• SNNP v3Yes• SNNP v3Yes• SNNP v3Yes• SNNP v6Yes• SNNP v6Yes• SNNP v7Yes• SNNP v6Yes• SNNP v7Yes• SNNP v6Yes• SNNP v7Yes• SNNP v6Yes• SNNP v6Yes• SNNP v6Yes• SNNP v7Yes• SNNP v7Yes• SNNP v7Yes• SNNP v8Yes• SNNP v8 <td>NETCONF</td> <td>Yes</td>	NETCONF	Yes
I.LDPYos• ElberkellPYos• SNAP v2Yos• SNAP v3Yos• SNAP v4Yos• SNAP v5Yos• S	• GMRP	Yes
• Elserble200Yes• SNMP v1Yes• SNMP v2Yes• SNMP v3Yes• IGMP (encopinginginere)Yes• IGMP (encopinginginere)Yes	• DCP	Yes
• SNAP v1Y6s• SNAP v3Yes• SNAP v3Yes• SNAP v3Yes• SNAP v4Yes• SNAP v5Yes• SNAP v5Yes• SNAP v5Yes• SNAP v6Yes• SNAP v7Yes•	• LLDP	Yes
• SNMP v2Yes• SNMP v3Yes• Identification & maintenance functionYes• Identification & maintenance functionYes• Identification & maintenance functionYes• Identification & IntenationYes• Identification & IdentificationYes• VLAN - pottoseYes• VLAN - pottoseNo• Identification & IdentificationYes• VLAN - pottoseNo• Identification & IdentificationYes• VLAN - PathosedNo• Unitien & Identification & IdentificationYes• VLAN - Identification & IdentificationYes• VLAN - Identification & IdentificationYes• Identification & IdentificationYes• Dick P Option R5Yes• Dick P Option R5Yes• Obck P Option R5Yes	EtherNet/IP	Yes
• FOMP v3YeseIGMP (snocpiquarity)Yes• IGMP (snocpiquarity)Yes• IGM - higher level adiagnationcation designationYesproduct function / diagnosticsYesproduct function / diagnosticsYesproduct function / diagnosticsYes• statistics Packet SizeYes• statistics packet SizeYes• error statisticsYes• statistics packet SizeYes• statistics packet SizeYes• statistics packet SizeYes• SystagYes• SystagYes• CULAN - probaceb-basedNo• ULAN - probaceb-basedNo <td>• SNMP v1</td> <td>Yes</td>	• SNMP v1	Yes
- iGAP (anopping/querier)         Yes           identification & maintenance function         Yes           - iGAD - descense function information         Yes           - protect function / information         Yes           - end tidepositics         Yes           - function / LAN - dynaminum         257           - number of VLANs - dynaminum         257           - enduct function         Yes           - DHCP Server         Yes           - DHCP Option R5         Yes           - DHCP Option R5         Yes           - DHCP Option R5         Yes <t< td=""><td>• SNMP v2</td><td>Yes</td></t<>	• SNMP v2	Yes
Identification & maintenance function     Yes       • I&MA - bipine funct designation     Yes       product functiona / diagnatics     Yes       product functiona / diagnatics     Yes       • statistics packet Size     Yes       • statistics packet Size     Yes       • statistics packet Size     Yes       • SysLog     Yes       product function     ////////////////////////////////////	• SNMP v3	Yes
Identification & maintenance function     Yes       • IBM0 - device specific information     Yes       product function     / Isage information       product function     / Isage information       ord diagnostics     Yes       • astatistics Packet Size     Yes       • error statistics     Yes       • error statistics     Yes       • error statistics     Yes       • product function     / VLAN       • vLVAN - port based     Yes       • VLAN - port based     Yes       • VLAN - port based     No       • VLAN - protocol-based     No       • OHCP Opton 82     Yes       • OHCP Opton 82     Yes	<ul> <li>IGMP (snooping/querier)</li> </ul>	Yes
• MMT - higher Kevel designation/location designation         Yes           product functions / diagnostics         Yes           • statistics Pocket Size         Yes           • statistics Pocket Size         Yes           • statistics Pocket Size         Yes           • error statistics         Yes           • statistics Pocket Size         Yes           • error statistics         Yes           product functions / VLAN         Yes           • VLAN - port based         Yes           • VLAN - port based         No           • VLAN - probace/based         No           • VLAN - probace/based         No           • ULAN - Polace/based         No           • ULAN - Probace/based         No           • ULAN - Polace/based         No           • ULAN - Polace/based         No           • DHCP Option 82         Yes           • DHCP Option 83         Yes           • DHCP Option 86         Yes           • DHCP Option 87 <td></td> <td></td>		
• MMT - higher Kevel designation/location designation         Yes           product functions / diagnostics         Yes           • statistics Pocket Size         Yes           • statistics Pocket Size         Yes           • statistics Pocket Size         Yes           • error statistics         Yes           • statistics Pocket Size         Yes           • error statistics         Yes           product functions / VLAN         Yes           • VLAN - port based         Yes           • VLAN - port based         No           • VLAN - probace/based         No           • VLAN - probace/based         No           • ULAN - Polace/based         No           • ULAN - Probace/based         No           • ULAN - Polace/based         No           • ULAN - Polace/based         No           • DHCP Option 82         Yes           • DHCP Option 83         Yes           • DHCP Option 86         Yes           • DHCP Option 87 <td><ul> <li>I&amp;M0 - device-specific information</li> </ul></td> <td>Yes</td>	<ul> <li>I&amp;M0 - device-specific information</li> </ul>	Yes
product functions / diagnosities         Yes           • port diagnosities         Yes           • statistics Packet Size         Yes           • attributes packet type         Yes           • entropic spacket type         Yes           • entropic space type         Yes           • entropic space type         Yes           • entropic space type         Yes           • VLAN - protocol-based         No           • VLAN - IP-based         No           • UNCH of MANs - dynamum         257           number of VLANs - dynamic / maximum         257           product function         Product function           • DHCP Option 82         Yes           • DHCP Option 82         Yes           • DHCP Option 75         Yes           product function         Yes           • DHCP Option 75         Yes           • DHCP Option 75	-	Yes
product function     Yes       • statistics Packet Size     Yes       • statistics Packet Size     Yes       • statistics Packet Size     Yes       • error statistics     Yes       • error statistics     Yes       • product functions     YLAN       • VLAN - part based     Yes       • VLAN - portocol-based     No       • VLAN - protocol-based     No       • Protocol-based     No       • Protocol-based     No       • protocol-based     Yes       product function     257       product function     Yes       • DHCP Option 62     Yes       • DHCP Option 72     Yes       product function     Yes       • media redundancy protocol (MRP) with redundancy     Yes       • of the PROFINET IO device / is supported / Hesync     Yes		
statistics Packet Size     statistics packet type     ves     statistics packet type     ves     veror statistics     yes     yes     yeroduct function     vLAN - port based     ves     vLAN - portbased     ves     vLAN - portbased     No     vLAN - portbased     VLAN - portbased     No     vLAN - portbase     ves	port diagnostics	Yes
• statistics packet type     Yes       • error statistics     Yes       product functions / VLAN        product functions / VLAN     Yes       • VLAN - probabeed     Yes       • VLAN - probabeed     No       • VLAN - probabeed     No       number of VLANs / maximum     257       number of VLANs - dramatic / maximum     257       product function     / HCP       • DHCP option 86     Yes       • DHCP option 86     Yes       • DHCP Option 86     Yes       • DHCP Option 67     Yes       product function     / Yes       • DHCP Option 67     Yes       product function     / Yes       • DHCP Option 67     Yes       product function     / Yes       • Order Doption 68     Yes       • DHCP Option 67     Yes       • Order Doption 61     Yes       • Order DROFINET     Yes       • Order DROFINET ID device / is supported / PROFINET     Yes       • of the PROFINET ID device / is supported / PROFINET     Yes       • redundan	· · ·	Yes
error statistics Yes     Systag     Systag     Systag     Systag     roduct functions / VLAN     product function         VLAN - port based         Yes         VLAN - port based         Yes         VLAN - portocol-based         No         VLAN - portocol-based         No         VLAN - protocol-based         No         DHCP Option S/ Del/P         Product function         DHCP Option 86         Yes         DHCP Option 86         Yes         DHCP Option 86         Yes         DHCP Option 82         UNCH Option 87         Other Protocol / Ms supported / Media Redundancy Protocol (MRP)         Yes         manager         in dela redundancy protocol (MRP) With redundarcy         redundancy Protocol (MRP) With redundarcy         redundancy         redundancy         redundancy protocol (HRP) with redundarcy         redundancy         redundancy         redundancy protocol (HRP) with redundarcy         redundancy         redundancy protocol (HRP) with redundarcy         redundancy         redundancy protocol (HRP) with redundarcy         redundancy protocol (HRP) with redundarcy         redundancy protocol (HRP) with standby         redundancy protocol (HRP) with stan		
SysLog     Yes  product functions / VLAN  product function     VLAN - port based     Yes     VLAN - protocol-based     No     VLAN - protocol-based     Ves     DHCP Option 82     Ves     DHCP Option 86     Yes     DHCP Option 66     Yes     DHCP Option 67     Yes     product function     No     ves     product function     Ves     product function     No     Ves     product function     Ves     product function     Ves     product function     Ves     redundancy protocol (MRP) with redundancy     Yes     No     No     Ves     No     No     No     Ves     No     No     No     No     Ves     No		
product functions         YLAN           product function         Yes           • VLAN - protocol-based         No           • VLAN - protocol-based         No           • VLAN - protocol-based         No           • VLAN - IP-based         No           • Tumber of VLANs / maximum         257           number of VLANs / aximum         257           number of VLANs / aximum         257           product functions         PHOP           product functions         PHOP           • DHCP parker         Yes           • DHCP poins 82         Yes           • DHCP Option 66         Yes           • DHCP Option 67         Yes           product function         Yes           • DHCP Option 61         Yes           product function         Yes           • DHCP Option 62         Yes           product functions / redundancy         Yes           product functions / redundancy         Yes           product functions / redundancy         Yes           • of the PROFINET IO device / is supported / HeRPINET         Yes           • of the PROFINET IO device / is supported / PROFINET         Yes           • ring redundancy protocol (HRP) with redundancy         Yes		
product function     Yes       • VLAN - port based     Yes       • VLAN - protocol-based     No       • VLAN - IP-based     No       number of VLANS - dynamic / maximum     257       product functions     7       Product function     257       product function     Yes       • DHCP Desiver     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       product function     Yes       • DHCP Option 67     Yes       product function     Yes       • DHCP Option 67     Yes       product function     Yes       • other PROFINET IO device / is supported / HSync     Yes       • other PROFINET IO device / is supported / PROFINET     Yes       • redundancy protocol (HRP) with redundancy     Yes       • ning redundancy     Yes       • ning redundancy protocol (HRP) with redundancy     Yes       • ning redundancy protocol (HRP) with standby     Yes       • ning head redundancy protocol (HRP) with standby     Yes       • ning redundancy protocol (HRP) with standby     Yes       • redundancy protocol (HRP) with standby <t< td=""><td></td><td></td></t<>		
• VLAN - protocol-based     Yes       • VLAN - protocol-based     No       • VLAN - Inprotocol-based     No       number of VLANs / maximum     257       number of VLANs / at ning redundancy (HRP; MRP; standby     257       product functions / DHCP     Product functions / DHCP       product function     Yes       • DHCP client     Yes       • DHCP Option 62     Yes       • DHCP Option 67     Yes       • DHCP Option 67     Yes       product functions / redundancy     Yes       • DHCP Option 67     Yes       protocol / Is supported / Media Redundancy Protocol (MRP)     Yes       protocol / Is supported / Media Redundancy Protocol (MRP)     Yes       protocol / Is supported / Media Redundancy Protocol (MRP)     Yes       manager     • Media Redundancy Protocol (MRP)     Yes       ing redundancy protocol (MRP) with redundancy     Yes       • media redundancy Protocol (MRP)     Yes       • of the PROFINET TO device / is supported / PROFINET     Yes       system redundancy     Yes       • ning redundancy protocol (HRP) with redundancy     Yes       • ning redundancy protocol (HRP) with standby     Yes       • high speed redundancy protocol (HRP) with standby     Yes       • redundancy procedure RSTP     Yes       • redundancy proce		
• VLAN - protocol-based     No       • VLAN - IP-based     No       number of VLANs / maximum     257       number of VLANs / at ring redundancy (HRP; MRP; standby link)     257       product functions     257       product functions     257       product functions     257       • DHCP Disorer     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       protocol / is supported / Media Redundancy Protocol (MRP)     Yes       protocol / is supported / Media Redundancy Protocol (MRP-I)     Yes       • Media Redundancy protocol Interconnection (MRP-I)     Yes       • of the PROFINET IO device / is supported / PROFINET     Yes       • rig redundancy     Yes       • of the PROFINET IO device / is supported / PROFINET     Yes       • rig redundancy     Yes       • high speed redundancy protocol (HRP) with redundancy     Yes       • high speed redundancy protocol (HRP) with redundancy     Yes       • high speed redundancy protocol (HRP) with redundancy     Yes       • redundancy procedure RSTP     Yes       • redundancy procedure RSTP     Yes	•	Yes
• VLAN - IP-based         No           number of VLANs - dynamic / maximum         257           product functions / DHCP         257           product functions         Ves           • DHCP Server         Yes           • DHCP Option 82         Yes           • DHCP Option 66         Yes           • DHCP Option 67         Yes           product functions / rodundancy         Yes           product functions / rodundancy         Yes           product functions / rodundancy Protocol (MRP)         Yes           product function         Yes           endia redundancy protocol (MRP) with redundancy         Yes           manager         Yes           • Media Redundancy Protocol (MRP-I)         Yes           • of the PROFINET IO device / is supported / H-Sync         Yes           forwarding         Yes           • high speed redundancy protocol (HRP) with redundancy         Yes           • high speed redundancy protocol (HRP) with standby         Yes           redundancy procedure STP         Yes           • edundancy procedure STP		
number of VLANs / maximum     257       number of VLANs / at ring redundancy (HRP; MRP; standby     257       number of VLANs / at ring redundancy (HRP; MRP; standby     257       product functions / DHCP     257       product function     0       • DHCP server     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       product function     *       product functions / redundancy     Yes       product function     •       • DHCP Option 67     Yes       product function     •       • media redundancy protocol (MRP)     Yes       product function     •       • endia redundancy protocol (MRP) with redundancy     Yes       maager     •       • of the PROFINET 10 device / is supported / H-Sync     Yes       • of the PROFINET 10 device / is supported / PROFINET     Yes       • sight paeed redundancy protocol (HRP) with redundancy     Yes       • ning redundancy     Yes       • of the ROGINARY procedure STP     Yes       • edundancy procedure STP     Yes       • edundancy procedure MSTP     Yes		
number of VLANs - dynamic / maximum     257       number of VLANs / at ring redundancy (HRP; MRP; standby link)     257       product functions     DHCP       product function     •       • DHCP option 80     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       product functions     redundancy       product function     Yes       product function     Yes       product function     redundancy Protocol (MRP)       • media redundancy protocol (MRP) with redundancy     Yes       • of the PROFINET 10 device / is supported / H-Sync     Yes       • of the PROFINET 10 device / is supported / PROFINET     Yes       • ing redundancy     Yes       • ing redundancy protocol (HRP) with redundancy     Yes       • ing redundancy protocol (HRP) with redundancy     Yes       • ing redundancy protocol (HRP) with standby     Yes       • ing redundancy procedure RSTP     Yes       • edundancy procedure RSTP     Yes       • edundancy procedure RSTP     Yes		
number of VLANs / at ring redundancy (HRP; MRP; standby link)     257       product functions / DHCP     Product functions / DHCP       product function     Yes       • DHCP option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / redundancy     Yes       product functions / redundancy Protocol (MRP)     Yes       product functions / redundancy protocol (MRP) with redundancy     Yes       • media redundancy protocol (MRP) with redundancy     Yes       • of the PROFINET IO device / is supported / H-Sync     Yes       • of the PROFINET IO device / is supported / PROFINET     Yes       • ring redundancy     Yes       • nigh speed redundancy protocol (HRP) with redundancy     Yes       • nigh speed redundancy protocol (HRP) with redundancy     Yes       • nigh speed redundancy protocol (HRP) with redundancy     Yes       • edundancy procedure RSTP     Yes       • redundancy procedure RSTP     Yes       • edundancy procedure RSTP+     Yes       • edundancy procedure RSTP     Yes       • edundancy procedure RSTP     Yes       • PRP-network     Yes       • Parallel Redundancy Protocol (PRP)/operation in the PRP-network     Yes		
link) product functions / DHCP product function DHCP Server DHCP Client Product function DHCP Option 82 DHCP Option 82 DHCP Option 66 Yes DHCP Option 67 Product functions / redundancy Protocol / is supported / Media Redundancy Protocol (MRP) Product function manager Media Redundancy protocol (MRP) With redundancy reanager of the PROFINET IO device / is supported / PROFINET system redundancy of the PROFINET IO device / is supported / PROFINET system redundancy ing redundancy ing redundancy Fres Dight speed redundancy protocol (HRP) with redundancy redundancy e redundancy protocol (HRP) with redundancy fres Dight speed redundancy protocol (HRP) with standby redundancy e redundancy protocol (HRP) with standby redundancy ing redundancy protocol (HRP) is supported if yes ing redundancy protocol (HRP) is supported if yes ing redundancy protocol (HRP) is supported if yes ing redundancy protocol (PRP)/iperation in the PRP-retwork ing r	•	
product function     Ves       • DHCP server     Yes       • DHCP Option 82     Yes       • DHCP Option 66     Yes       • DHCP Option 67     Yes       product functions / redundancy     Yes       product function     Yes       product function     Yes       product function     Yes       endia redundancy protocol (MRP) with redundancy     Yes       maager     Media Redundancy Protocol (MRP-I)     Yes       • of the PROFINET IO device / is supported / H-Sync     Yes       forwarding     • of the PROFINET IO device / is supported / PROFINET     Yes       • of the PROFINET IO device / is supported / PROFINET     Yes       • of the PROFINET IO device / is supported / PROFINET     Yes       • nigh speed redundancy protocol (HRP) with redundancy     Yes       • nigh speed redundancy protocol (HRP) with redundancy     Yes       • nigh speed redundancy protocol (HRP) with standby     Yes       • redundancy procedure RSTP     Yes       • redundancy procedure RSTP     Yes       • redundancy procedure RSTP     Yes       • redundancy procedure MSTP     Yes       • redundancy procedure RSTP     Yes       • redundancy procedure RSTP     Yes       • redundancy procedure RSTP     Yes       • redundancy protocol (PRP)/speration in t		
• DHCP serverYes• DHCP Option 82Yes• DHCP Option 68Yes• DHCP Option 67Yesproduct functions / redundancy Protocol (MRP)Yesproduct functionYes• media redundancy protocol (MRP) with redundancyYes• media redundancy protocol Interconnection (MRP-I)Yes• Media Redundancy Protocol Interconnection (MRP-II)Yes• of the PROFINET IO device / is supported / H-SyncYes• of the PROFINET IO device / is supported / PROFINETYes• system redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy procedure RSTPYes• redundancy protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/peration in the PRP-networkYes• passive listeningYes	product functions / DHCP	
• DHCP clientYes• DHCP Option 82Yes• DHCP Option 67Yes• DHCP Option 67Yesproduct functions / redundancyYesproduct function*• media redundancy protocol (MRP) with redundancyYes• media redundancy protocol (MRP) with redundancyYes• media redundancy protocol Interconnection (MRP-I)Yes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ing redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy redundancy procedure RSTPYes• redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure RSTP • fulgh exailability Seamless Redundancy (HSR) • Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/predundant Network Access (RNA)Yes• passive listeningYes	product function	
• DHCP Option 82Yes• DHCP Option 66Yes• DHCP Option 67Yesproduct functions / redundancyYesproduct functions / redundancy Protocol (MRP)Yesproduct function*• media redundancy protocol (MRP) with redundancyYes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-SyncYes• of the PROFINET IO device / is supported / PROFINETYes• of the PROFINET IO device / is supported / PROFINETYes• of the PROFINET IO device / is supported / PROFINETYes• of the PROFINET IO device / is supported / PROFINETYes• ning redundancyYes• ning redundancyYes• ning redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTP+Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	DHCP server	Yes
• DHCP Option 86Yes• DHCP Option 67Yesproduct functions / redundancyproduct functionYesproduct functionYes• media redundancy protocol (MRP) with redundancy managerYes• Media Redundancy Protocol Interconnection (MRP-I)Yes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with redundancy mendancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+ redundancy procedure RSTP+ YesYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	DHCP client	Yes
• DHCP Option 67Yesproduct functions / redundancyproduct functionYesproduct function• Media redundancy protocol (MRP) with redundancy managerYes• Media redundancy protocol Interconnection (MRP-I)Yes• Of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with redundancy medundancyYes• high speed redundancy protocol (HRP) with standby redundancy procedure STPYes• redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure RSTP • Fealtel Redundancy protocol (PRP)/seration in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes	DHCP Option 82	Yes
product functions / redundancy         Yes           product function         Yes           product function         Yes           • media redundancy protocol (MRP) with redundancy manager         Yes           • Media Redundancy Protocol Interconnection (MRP-I)         Yes           • of the PROFINET IO device / is supported / H-Sync forwarding         Yes           • of the PROFINET IO device / is supported / PROFINET system redundancy         Yes           • nigh speed redundancy protocol (HRP) with redundancy manager         Yes           • high speed redundancy protocol (HRP) with standby redundancy         Yes           • high speed redundancy protocol (HRP) with standby redundancy procedure STP         Yes           • redundancy procedure RSTP+         Yes           • redundancy procedure RSTP+         Yes           • redundancy procedure MSTP         Yes           • High-availability Seamless Redundancy (HSR)         Yes           • Parallel Redundancy Protocol (PRP)/peration in the PRP-network         Yes           • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)         Yes	DHCP Option 66	Yes
protocol / is supported / Media Redundancy Protocol (MRP)         Yes           product function         • media redundancy protocol (MRP) with redundancy manager         Yes           • Media Redundancy Protocol Interconnection (MRP-I)         Yes           • of the PROFINET IO device / is supported / H-Sync forwarding         Yes           • of the PROFINET IO device / is supported / PROFINET system redundancy         Yes           • ring redundancy         Yes           • high speed redundancy protocol (HRP) with redundancy manager         Yes           • high speed redundancy protocol (HRP) with standby redundancy         Yes           • redundancy procedure STP         Yes           • redundancy procedure RSTP         Yes           • Parallel Redundancy Protocol (PRP)/operation in the PRP-network         Yes           • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)         Yes           • passive listening         Yes	DHCP Option 67	Yes
product function• media redundancy protocol (MRP) with redundancy manager• Media Redundancy Protocol Interconnection (MRP-I)• of the PROFINET IO device / is supported / H-Sync forwarding• of the PROFINET IO device / is supported / PROFINET system redundancy• of the PROFINET IO device / is supported / PROFINET system redundancy• high speed redundancy protocol (HRP) with redundancy manager• high speed redundancy protocol (HRP) with redundancy manager• high speed redundancy protocol (HRP) with standby redundancy redundancy procedure STP• redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure MSTP• High-availability Seamless Redundancy (HSR) • Parallel Redundancy Protocol (PRP)/peration in the PRP-network • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) • passive listening• passive listeningYes	product functions / redundancy	
• media redundancy protocol (MRP) with redundancy managerYes• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ring redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	protocol / is supported / Media Redundancy Protocol (MRP)	Yes
manager• Media Redundancy Protocol Interconnection (MRP-I)Yes• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ring redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+ • redundancy procedure RSTP+ • redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR) • Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	product function	
• of the PROFINET IO device / is supported / H-Sync forwardingYes• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ring redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure RSTPYes• redundancy protocol (PRP)/peration in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes		Yes
forwarding• of the PROFINET IO device / is supported / PROFINET system redundancyYes• ring redundancyYes• high speed redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancyYes• high speed redundancy protocol (HRP) with standby redundancy redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> </ul>	Yes
system redundancyYes• ring redundancy protocol (HRP) with redundancy managerYes• high speed redundancy protocol (HRP) with standby redundancy redundancy procedure STPYes• redundancy procedure STPYes• redundancy procedure RSTPYes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes		Yes
high speed redundancy protocol (HRP) with redundancy managerYeshigh speed redundancy protocol (HRP) with standby redundancyYeseredundancy procedure STPYeseredundancy procedure RSTPYeseredundancy procedure RSTP+Yeseredundancy procedure MSTPYeseredundancy protocol (PRP)/operation in the PRP-networkYeseredundancy Protocol (PRP)/Redundant Network Access (RNA)Yesepassive listeningYes		Yes
manager• high speed redundancy protocol (HRP) with standby redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• redundancy procedure MSTPYes• high-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	<ul> <li>ring redundancy</li> </ul>	Yes
redundancyYes• redundancy procedure STPYes• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	manager	
• redundancy procedure RSTPYes• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes	redundancy	
• redundancy procedure RSTP+Yes• redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes		
• redundancy procedure MSTPYes• High-availability Seamless Redundancy (HSR)Yes• Parallel Redundancy Protocol (PRP)/operation in the PRP-networkYes• Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)Yes• passive listeningYes		
• High-availability Seamless Redundancy (HSR)       Yes         • Parallel Redundancy Protocol (PRP)/operation in the PRP-network       Yes         • Parallel Redundancy Protocol (PRP)/Redundant Network       Yes         • passive listening       Yes		Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> <li>passive listening</li> <li>Yes</li> </ul>	<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
PRP-network     • Parallel Redundancy Protocol (PRP)/Redundant Network     Yes       • passive listening     Yes		Yes
Access (RNA)		Yes
		Yes
protocol / is supported	· · · · · · · · · · · · · · · · · · ·	Yes
	protocol / is supported	



9/20/2024

• STP/RSTP	Yes		
• STP	Yes		
• RSTP	Yes		
• MSTP	No		
RSTP big network support	Yes		
• LACP	Yes		
system modification during operation			
product function / configuration in RUN via CiR/H-CiR	Yes		
product functions / security			
product function			
IEEE 802.1x (radius)	Yes		
broadcast/multicast/unicast limiter	Yes		
broadcast blocking	Yes		
protocol / is supported			
• SSH	Yes		
• SSL	Yes		
product functions / time			
product function			
SICLOCK support	Yes		
NTP-client	Yes		
SNTP client	Yes		
IEEE 1588 v2 transparent forwarding	Yes		
protocol / is supported			
• NTP	Yes		
• SNTP	Yes		
IEEE 1588 profile default	No		
accuracy / at IEEE 1588 v2			
<ul> <li>not less than</li> </ul>	100 µs		
• typical	50 ns		
standards, specifications, approvals			
certificate of suitability			
-			
• CE marking	Yes		
CE marking     UKCA marking	Yes		
CE marking     UKCA marking     cULus approval	Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> </ul>	Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes Yes Yes		
CE marking     UKCA marking     cULus approval     KC approval     Regulatory Compliance Mark (RCM)     product conformity / according to EMC-guideline	Yes Yes Yes		
CE marking     UKCA marking     cULus approval     KC approval     Regulatory Compliance Mark (RCM)     product conformity / according to EMC-guideline     standard	Yes Yes Yes 2014/30/EU		
CE marking     UKCA marking     cULus approval     KC approval     Regulatory Compliance Mark (RCM)     product conformity / according to EMC-guideline     standard     for EMC interference emission	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4		
CE marking     UKCA marking     cULus approval     KC approval     Regulatory Compliance Mark (RCM)     product conformity / according to EMC-guideline     standard     for EMC interference emission     for immunity to EMC	Yes Yes Yes 2014/30/EU		
CE marking     UKCA marking     cULus approval     KC approval     KC approval     Regulatory Compliance Mark (RCM)     product conformity / according to EMC-guideline     standard     for EMC interference emission     for immunity to EMC     standards, specifications, approvals / hazardous environments	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4		
CE marking     UKCA marking     cULus approval     KC approval     Regulatory Compliance Mark (RCM)     product conformity / according to EMC-guideline     standard     for EMC interference emission     for immunity to EMC     standards, specifications, approvals / hazardous environments     certificate of suitability	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments certificate of suitability <ul> <li>ATEX</li> </ul>	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments certificate of suitability <ul> <li>ATEX</li> <li>UKEX</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments certificate of suitability <ul> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments certificate of suitability <ul> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments certificate of suitability <ul> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments certificate of suitability <ul> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments <ul> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments certificate of suitability <ul> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments <ul> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other IT security for industrial automation systems / according to IEC	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments <ul> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments <ul> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Description	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments <ul> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product De Environmental Product Declaration	Yes Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments <ul> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product DD Environmental Product Declaration Global Warming Potential [CO2 eq]	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> <li>standards, specifications, approvals / hazardous environments</li> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] <ul> <li>total</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> <li>standards, specifications, approvals / hazardous environments</li> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] <ul> <li>total</li> <li>during manufacturing</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments <ul> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other IT security for industrial automation systems / according to IEC 62443-4-2:2019 standards, specifications, approvals / Environmental Product Declaration Global Warming Potential [CO2 eq] <ul> <li>total</li> <li>during manufacturing</li> <li>during operation</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
<ul> <li>CE marking</li> <li>UKCA marking</li> <li>cULus approval</li> <li>KC approval</li> <li>Regulatory Compliance Mark (RCM)</li> <li>product conformity / according to EMC-guideline</li> <li>standard</li> <li>for EMC interference emission</li> <li>for immunity to EMC</li> </ul> standards, specifications, approvals / hazardous environments <ul> <li>certificate of suitability</li> <li>ATEX</li> <li>UKEX</li> <li>IECEx</li> <li>ULhazloc approval</li> <li>CCC / for hazardous zone according to GB standard</li> <li>FM registration</li> </ul> standards, specifications, approvals / other <ul> <li>T security for industrial automation systems / according to IEC 62443-4-2:2019</li> <li>standards, specifications, approvals / Environmental Product Declaration</li> <li>Global Warming Potential [CO2 eq]</li> <li>total</li> <li>during manufacturing</li> <li>during operation</li> <li>after end of life</li> </ul>	Yes Yes Yes 2014/30/EU EN 61000-6-4 EN 61000-6-2 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		



9/20/2024

reference temperature / for MTBF determination	_	40 °C				
reference code						
<ul> <li>according to IEC 81346-2</li> </ul>	KF					
<ul> <li>according to IEC 81346-2:2019</li> </ul>			KFE			
Warranty period		5a				
further information / internet links						
internet link						
• to website: Selection guide for cables and	connectors https		https://support.industry.siemens.com/cs/ww/en/view/109766358			
<ul> <li>to web page: selection aid TIA Selection To</li> </ul>		https://www.siemens.com/tstcloud				
<ul> <li>to website: Industrial communication</li> </ul>		https://www.siemens.com/simatic-net				
• to web page: SiePortal		https://sieportal.siemens.com/				
• to website: Image database			www.automation.sieme			
<ul> <li>to website: CAx-Download-Manager</li> </ul>			www.siemens.com/cax			
<ul> <li>to website: Industry Online Support</li> </ul>			support.industry.siemer	is com		
security information		<u>mpo.m</u>	support.industry.siemer	10.00m		
Approvals / Certificates General Product Approval		that sup In orde threats state-or solution for prev- network to an einecess network cyberse www.si underg recommand that no long custom subscrit	port the secure operat r to protect plants, syste , it is necessary to imple f-the-art industrial cyber as constitute one eleme venting unauthorized ac ks. Such systems, mach nterprise network or the ary and only when apple k segmentation) are in p ecurity measures that m emens.com/cybersecu nends that product upd it the latest product vers er supported, and failui er's exposure to cyber	ion of plants, systems, r ems, machines and netw ement – and continuous rsecurity concept. Sieme int of such a concept. Cu ccess to their plants, sys hines and components s a internet if and to the ex- ropriate security measur place. For additional infor any be implemented, ple rity-industry. Siemens' p rent to make them more ates are applied as soor sions are used. Use of p re to apply the latest up threats. To stay informe ustrial Cybersecurity RSS	ly maintain – a holistic, ens' products and ustomers are responsible tems, machines and should only be connected dent such a connection is res (e.g. firewalls and/or ormation on industrial ease visit roducts and solutions secure. Siemens strongly n as they are available product versions that are dates may increase d about product updates,	
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