Data sheet 6GK5310-0FA10-2AA3



SCALANCE X310, managed plus IE switch, 3x 10/100/1000 Mbit/ and 7x 10/100 Mbit/s RJ45 ports LED diagnostics, error signaling Contact with select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-plug in scope of supply.

product type designation	SCALANCE X310	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s, 1000 Mbit/s	
interfaces / for communication / maximum configuration for modular devices		
number of electrical ports / maximum	10	
interfaces / for communication / integrated		
number of electrical connections		
 for network components or terminal equipment 	10	
number of 10/100 Mbit/s RJ45 ports / integrated		
with securing collar	7	
number of 10/100/1000 Mbit/s RJ45 ports / integrated		
with securing collar	3	
interfaces / other		
number of electrical connections		
 for signaling contact 	1	
• for power supply	1	
type of electrical connection		
 for signaling contact 	2-pole terminal block	
• for power supply	4-pole terminal block	
design of the removable storage		
• C-PLUG	Yes	
signal inputs/outputs		
operating voltage / of the signaling contacts		
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	
supply voltage / 1 / rated value	24 V	
power loss [W] / 1 / rated value	9.6 W	
 supply voltage / 1 / rated value 	18 32 V	
consumed current / 1 / maximum	0.4 A	
 type of electrical connection / 1 / for power supply 	4-pole terminal block	
product component / 1 / fusing at power supply input	Yes	
ambient conditions		
ambient temperature		
during operation	-40 +60 °C	
during storage	-40 +70 °C	

- during transport	40 170 °C
during transport relative hymidity	-40 +70 °C
relative humidity • at 25 °C / without condensation / during operation /	95 %
maximum	
protection class IP	IP30
design, dimensions and weights	
design	compact
width	120 mm
height	125 mm
depth	123 mm
net weight	1.4 kg
fastening method	When used in shipbuilding, installation on a 35 mm standard mounting rail is not permitted.
19-inch installation	No
 35 mm top hat DIN rail mounting 	Yes
wall mounting	Yes
S7-300 rail mounting	Yes
S7-1500 rail mounting	No
product features, product functions, product components / gene	eral
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	100
cascading in cases of star topology	any (depending only on signal propagation time)
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
• port mirroring	Yes
multiport mirroring	Yes
• CoS	Yes
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• ICIF • FTP	Yes
• BOOTP	Yes
• BOOTP • GMRP	Yes
• GMRP • DCP	Yes
• DCP • LLDP	Yes
• SNMP v1	Yes
• SNMP V1 • SNMP v2	Yes
SNMP v3 ICMP (appaping/querier)	Yes
IGMP (snooping/querier) Identification & maintenance function	Yes
identification & maintenance function	Vee
18M0 - device-specific information 18M1 - higher level designation designation	Yes
I&M1 - higher level designation/location designation Product functions / diagnostics	Yes
product functions / diagnostics	
product function	
• port diagnostics	Yes
statistics Packet Size	Yes
 statistics packet type 	Yes
• error statistics	Yes
SysLog	Yes
product functions / VLAN	

VLAN - protocol-based Yes		
	product function	
	 VLAN - port based 	Yes
MLAN dynamic	 VLAN - protocol-based 	No
Tumber of VLANs / maximum	VLAN - IP-based	No
number of VLANs - dynamic / maximum	VLAN dynamic	Yes
product functions / DHCPP Product functions / DHCPP Product functions / DHCPC client Yes	number of VLANs / maximum	255
product functions / DHCP product function	number of VLANs - dynamic / maximum	255
product function • DHCP Citient • DHCP Option 82 • DHCP Option 83 • DHCP Option 68 • DHCP Option 68 • DHCP Option 67 • Yes • DHCP Option 67 • Yes • DHCP Option 67 • Yes • DHCP Option 68 • Yes • DHCP Option 67 • Yes • DHCP Option 67 • Yes • DHCP Option 68 • Yes • DHCP Option 68 • Yes • SHC Ves • High Speed Redundancy • High Speed Redundancy Protocol (HRP) • High Speed redundancy protocol (HRP) with redundancy manager • High Speed redundancy protocol (HRP) with standby redundancy product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure MSTP • passive listering protocol / is supported • STPRSTP • RSTP • RST	protocol / is supported / GVRP	Yes
DHCP client DHCP Option 82 DHCP Option 66 DHCP Option 66 Yes DHCP Option 67 Product functions in right redundancy product function in right redundancy protocol (HRP) High speed redundancy protocol (HRP) Product function Media redundancy protocol (HRP) with redundancy redundancy redundancy protocol (HRP) Product function Media redundancy procedure RFTP Hedundancy procedure STP Hessel Istening Hessel Is	product functions / DHCP	
DHCP Option 82 DHCP Option 66 DHCP Option 67 Yes Product functions / rodundancy product functions / rodundancy product functions / rodundancy Figh Speed Redundancy Protocol (HRP) Figh Speed Redundancy protocol (HRP) with redundancy manager Figh Speed Redundancy protocol (HRP) with standby redundancy manager Figh Speed Redundancy protocol (HRP) with standby redundancy manager Figh Speed Redundancy protocol (HRP) with redundancy manager Figh Speed Redundancy protocol (HRP) with redundancy manager Figh Speed Redundancy protocol (MRP) Figh Speed Redundancy protocol (product function	
DHCP Option 67 Product functions: I redundancy product functions: I redundancy product functions: I redundancy product functions: I redundancy Protocol (HRP) inja speed redundancy Protocol (HRP) with redundancy	 DHCP client 	Yes
Product function 7 rodundancy product function in ring redundancy in ring redundancy Protocol (HRP) in ring speed redundancy protocol (HRP) with redundancy ring redundancy protocol (HRP) with standby redundancy procodure Step redundancy procodure StP resultancy procodure StP resultanc	DHCP Option 82	Yes
product function ing redundancy ing redundancy ing redundancy ing redundancy ing redundancy Protocol (HRP) ing Speed redundancy protocol (HRP) with redundancy ing speed redundancy protocol (HRP) with redundancy ing speed redundancy protocol (HRP) with standiby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy procedure RSTP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure RSTP yes redundancy procedure RSTP yes passive listening yes protocol / is supported STP/RSTP STP STP STP STP STP STP STP STP STP	 DHCP Option 66 	Yes
product function ing redundancy ing redundancy ing redundancy Protocol (HRP) ing speed redundancy Protocol (HRP) ing speed redundancy protocol (HRP) with redundancy manager ing supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy procedure STP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure MSTP redundancy procedure MSTP redundancy procedure MSTP results its supported STP/RSTP results its supported STP/RSTP RSTP SSTP RSTP R	DHCP Option 67	Yes
inig redundancy	product functions / redundancy	
High Speed Redundancy Protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function manager redundancy protocol (MRP) with redundancy manager redundancy protocol (MRP) with redundancy manager redundancy procedure STP redundancy procedure RSTP redundancy procedure RSTP redundancy procedure MSTP resundancy procedure MSTP redundancy procedure MSTP resundancy procedure MSTP resundancy procedure MSTP resundancy procedure MSTP resundancy procedure MSTP	product function	
high speed redundancy protocol (HRP) with redundancy manager high speed redundancy protocol (HRP) with standby redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function media redundancy protocol (MRP) with redundancy manager redundancy procedure STP redundancy procedure STP redundancy procedure RSTP redundancy procedure MSTP redundancy predundancy Pres redundancy procedure MSTP redundancy procedure MST	• ring redundancy	Yes
manager high speed redundancy protocol (HRP) with standby redundancy Yes	 High Speed Redundancy Protocol (HRP) 	Yes
redundancy protocol / is supported / Media Redundancy Protocol (MRP) product function • media redundancy protocol (MRP) with redundancy manager • redundancy procedure STP • redundancy procedure RSTP • passive listening		Yes
product function media redundancy protocol (MRP) with redundancy manager redundancy procedure STP redundancy procedure MSTP redundancy procedure M		Yes
media redundancy protocol (MRP) with redundancy manager	protocol / is supported / Media Redundancy Protocol (MRP)	Yes
manager • redundancy procedure RSTP • redundancy procedure RSTP • redundancy procedure MSTP • passive listening protocol / is supported • STP, Yes • RSTP • RSTP • RSTP • RSTP • RSTP • RSTP Yes • RSTP • RSTP Yes • RSTP Yes • RSTP Yes • LACP • LACP product functions / security product function • ACL - MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • EEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking protocol / is supported • SSH • SSH product functions / time product function • SICL OCK support • NTP • IEEE 1888 profile default No standard • for FM • fM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	product function	
redundancy procedure MSTP redundancy procedure MSTP passive listening yes protocol / is supported STP/RSTP Yes STP STP Yes NSTP Yes product functions / security product function ACL - MAC-based Yes NCL - port/MAC-based Yes NCL - port/MAC-based Yes Noradcast/multicast/unicast limiter Yes Noradcast/multicast/unicast limiter Yes Noradcast blocking Yes product functions / time product functions / time product functions / time product function SICLOCK support Yes NTP NSTP Yes NTP NSTP Yes NSTP NEEE 1588 profile default No standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 T4 Ver or safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1		Yes
• redundancy procedure MSTP • passive listening protocol / is supported • STP/RSTP • STP • RSTP • RSTP • RSTP • RSTP • RSTP by Yes • MSTP • RSTP big network support • LACP • ACL - MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • STEB 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking protocol / is supported • SSH product function • SICLOCK support • SSH product function • SICLOCK support Protocol / is supported • SNTP • SEEE 1588 profile default * FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL * UL 60950-1, CSA C22.2 No. 60950-1	 redundancy procedure STP 	Yes
protocol / is supported • STP/RSTP • STP • RSTP • RSTP • MSTP • RSTP big network support • LACP product functions / security product function • ACL - MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • SEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking protocol / is supported • SSH product functions / time product functions / time product functions / time protocol / is supported • SSH prodocol / is supported • SICLOCK support • SICLOCK support • SICLOCK support • SITP • SNTP • SNTP • SNTP • SNTP • IEEE 1588 profile default No standards, specifications, approvals standard • for FM • FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	 redundancy procedure RSTP 	Yes
protocol / is supported • STP/RSTP • STP • STP • RSTP • MSTP • RSTP • RSTP • RSTP	 redundancy procedure MSTP 	Yes
• STP/RSTP • STP • STP • RSTP • MSTP • MSTP • RSTP big network support • LACP product function / Yes • ACL - MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • LEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking • broadcast blocking protocol / is supported • SSH product function / SICLOCK support • SICLOCK support • SNTP • SNTP • SNTP • SNTP • LEEE 1588 profile default No standards, specifications, approvals standard • for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	passive listening	Yes
• STP • RSTP • RSTP • MSTP • RSTP big network support • LACP product functions / security product function • ACL - MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking protocol / is supported • SSH • SSH product functions / time product functions / time product functions / time product functions / time protocol / is supported • SICLOCK support • SICLOCK support • NTP • SNTP • SNTP • SNTP • IEEE 1588 profile default No standards, specifications, approvals standard • for FM for safety / from CSA and UL Ves • FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	protocol / is supported	
RSTP	STP/RSTP	Yes
MSTP RSTP big network support RSTP big network support LACP Product functions / security Product function ACL - MAC-based RCL - port/MAC-based REE 802.1x (radius) Res Product supported SSH Product functions / Yes Product functions / Yes Product functions / Yes Product functions / Yes Product function SICLOCK support Protocol / is supported NTP SICLOCK support Protocol / is supported NTP SICLOCK support NTP SICLOCK support Protocol / is supported SICLOCK support Protocol / is supp	• STP	Yes
■ RSTP big network support ■ LACP product functions / security product function ■ ACL - MAC-based ■ Yes ■ ACL - port/MAC-based ■ Yes ■ IEEE 802.1x (radius) ■ broadcast/multicast/unicast limiter ■ broadcast blocking protocol / is supported ■ SSH ■ Yes product function / time product function / time product function ■ SICLOCK support ■ Yes protocol / is supported ■ NTP ■ NTP ■ Yes ■ SNTP ■ IEEE 1588 profile default ■ No standards, specifications, approvals standard ■ for FM ■ FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 ■ for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	• RSTP	Yes
Product functions / security product function	• MSTP	Yes
product function / eACL - MAC-based Yes • ACL - port/MAC-based Yes • IEEE 802.1x (radius) Yes • broadcast/multicast/unicast limiter Yes • broadcast blocking Yes protocol / is supported • SSH Yes product functions / time product function / time product function • SICLOCK support Yes protocol / is supported • NTP Yes • SNTP Yes • IEEE 1588 profile default No standards, specifications, approvals standard • for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	 RSTP big network support 	Yes
product function • ACL - MAC-based • ACL - port/MAC-based • ACL - port/MAC-based • IEEE 802.1x (radius) • broadcast/multicast/unicast limiter • broadcast blocking protocol / is supported • SSH product functions / time product function • SICLOCK support Protocol / is supported • SICL OCK support • SICL OCK support • NTP • SNTP • SNTP • SNTP • IEEE 1588 profile default No standards, specifications, approvals standard • for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	• LACP	Yes
ACL - MAC-based ACL - port/MAC-based Yes IEEE 802.1x (radius) Yes broadcast/multicast/unicast limiter Yes broadcast blocking Yes Protocol / is supported SSH Yes Product functions / time Product function SICLOCK support Protocol / is supported SICLOCK support Yes Protocol / is supported SICLOCK support Yes Protocol / is supported NTP SNTP SNTP SNTP IEEE 1588 profile default No Standards, specifications, approvals Standard FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	product functions / security	
ACL - port/MAC-based IEEE 802.1x (radius) broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH product functions / time product function SICLOCK support Protocol / is supported NTP SNTP SNTP IEEE 1588 profile default No standards, specifications, approvals standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	product function	
IEEE 802.1x (radius) broadcast/multicast/unicast limiter Yes broadcast blocking Yes protocol / is supported SSH Yes product functions / time product function SICLOCK support Protocol / is supported NTP SNTP SNTP IEEE 1588 profile default No standards, specifications, approvals standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	ACL - MAC-based	Yes
broadcast/multicast/unicast limiter broadcast blocking protocol / is supported SSH yes product functions / time product function SICLOCK support Protocol / is supported NTP SNTP SNTP IEEE 1588 profile default standards, specifications, approvals standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	 ACL - port/MAC-based 	Yes
broadcast blocking protocol / is supported SSH Yes product functions / time product function SICLOCK support protocol / is supported NTP SNTP SNTP IEEE 1588 profile default standards, specifications, approvals standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	• IEEE 802.1x (radius)	Yes
protocol / is supported SSH Product functions / time product function SICLOCK support Protocol / is supported NTP SNTP SNTP IEEE 1588 profile default standards, specifications, approvals standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	 broadcast/multicast/unicast limiter 	Yes
SSH product functions / time product function SICLOCK support Protocol / is supported NTP SNTP IEEE 1588 profile default No standards, specifications, approvals standard for FM for safety / from CSA and UL Yes Yes Yes Yes Yes FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	broadcast blocking	Yes
product function • SICLOCK support protocol / is supported • NTP • SNTP • IEEE 1588 profile default standards, specifications, approvals standard • for FM • for safety / from CSA and UL Yes Yes Yes No FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	protocol / is supported	
product function • SICLOCK support Protocol / is supported • NTP • SNTP • SNTP • IEEE 1588 profile default **No **Standards, specifications, approvals standard • for FM • for safety / from CSA and UL **T4 **UL 60950-1, CSA C22.2 No. 60950-1	• SSH	Yes
SICLOCK support protocol / is supported NTP SNTP SNTP IEEE 1588 profile default No standards, specifications, approvals standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 IEAN OF SAFETY / From CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	product functions / time	
protocol / is supported NTP SNTP SNTP IEEE 1588 profile default No standards, specifications, approvals standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 UL 60950-1, CSA C22.2 No. 60950-1	product function	
 NTP SNTP IEEE 1588 profile default IEEE 1588 profile default No standards, specifications, approvals standard for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1 	SICLOCK support	Yes
SNTP IEEE 1588 profile default No standards, specifications, approvals standard In for FM If M3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 If the for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	protocol / is supported	
◆ IEEE 1588 profile default Standards, specifications, approvals standard ◆ for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 ◆ for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	• NTP	Yes
standards, specifications, approvals standard • for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	• SNTP	Yes
standard • for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	• IEEE 1588 profile default	No
 • for FM FM3611: Class 1, Divison 2, Group A, B, C, D / T4, Class 1, Zone 2, Group IIC, T4 • for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1 	standards, specifications, approvals	
◆ for safety / from CSA and UL UL 60950-1, CSA C22.2 No. 60950-1	standard	
	• for FM	
	• for safety / from CSA and UL	UL 60950-1, CSA C22.2 No. 60950-1
	•	EN 61000-6-4:2007 (Class A)
• for interference immunity EN 61000-6-2:2005	• for interference immunity	
MTBF 40 a	·	40 a
reference code	reference code	

according to IEC 81346-2	KF
• according to IEC 81346-2:2019	KFE
standards, specifications, approvals / CE	
certificate of suitability / CE marking	Yes
standards, specifications, approvals / hazardous environments	
standard / for hazardous zone	EN 60079-0 : 2006, EN 60079-15: 2005, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X
• from CSA and UL	UL 1604 and UL 2279-15 (Hazardous Location), CSA C22.2 No. 213-M1987, Class 1 / Division 2 / Group A, B, C, D / T4, Class 1 / Zone 2 / Group IIC / T4
certificate of suitability	
 CCC / for hazardous zone according to GB standard 	Yes
CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc
standards, specifications, approvals / other	
certificate of suitability	EN 61000-6-2:2005, EN 61000-6-4:2007
• C-Tick	Yes
KC approval	Yes
 railway application in accordance with EN 50155 	No
standards, specifications, approvals / marine classification	
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	Yes
 Det Norske Veritas (DNV) 	No
Germanische Lloyd (GL)	No
DNV GL	Yes
 Korean Register of Shipping (KRS) 	Yes
 Polski Rejestr Statkow (PRS) 	Yes
 Royal Institution of Naval Architects (RINA) 	No
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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