## **Data sheet**



SCALANCE XC216 managed Layer 2 IE switch; IEC 62443-4-2 certified; 16x 10/100 Mbps RJ45 ports; 1x console port, diagnostics LED; redundant power supply; temp. range -40 °C to +70 °C; mounting: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot;

product type designation	SCALANCE XC216
transfer rate	
transfer rate	10 Mbit/s, 100 Mbit/s
interfaces / for communication / integrated	
number of electrical connections	
<ul> <li>for network components or terminal equipment</li> </ul>	16; RJ45
number of 10/100 Mbit/s RJ45 ports / integrated	
with securing collar	16
interfaces / other	
number of electrical connections	
<ul> <li>for operator console</li> </ul>	1
<ul> <li>for signaling contact</li> </ul>	1
for power supply	1
type of electrical connection	
<ul> <li>for operator console</li> </ul>	RJ11
<ul> <li>for signaling contact</li> </ul>	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 / 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>	6.6 W
<ul> <li>consumed current / 1 / at rated supply voltage / maximum</li> </ul>	0.275 A
<ul><li>supply voltage / 1 / rated value</li></ul>	9.6 31.2 V
<ul><li>consumed current / 1 / maximum</li></ul>	0.55 A
<ul> <li>type of electrical connection / 1 / for power supply</li> </ul>	4-pole terminal block
<ul> <li>product component / 1 / fusing at power supply input</li> </ul>	Yes
ambient conditions	
ambient temperature	

during operation	-40 +70 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity	
<ul> <li>at 25 °C / without condensation / during operation /</li> </ul>	95 %
maximum	
protection class IP	IP20
design, dimensions and weights	
design	compact
width	120 mm
height	147 mm
depth	125 mm
net weight	0.8 kg
material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum
fastening method	
<ul> <li>35 mm top hat DIN rail mounting</li> </ul>	Yes
wall mounting	Yes
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
product features, product functions, product components	/ general
cascading in the case of a redundant ring / at	50
reconfiguration time of <\~0.3\~s	
cascading in cases of star topology	any (depending only on signal propagation time)
product function / QoS according to DSCP	Yes
product feature	
<ul> <li>Cut Through switching method</li> </ul>	No
Store & Forward switching method	Yes
product functions / management, configuration, engineering	ng
product function	
• CLI	Yes
<ul> <li>web-based management</li> </ul>	Yes
<ul> <li>MIB support</li> </ul>	Yes
TRAPs via email	Yes
<ul><li>configuration with STEP 7</li></ul>	Yes
• RMON	Yes
SMTP server	No
<ul><li>port mirroring</li></ul>	Yes
<ul> <li>multiport mirroring</li> </ul>	Yes
• CoS	Yes
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1632 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• BOOTP	No
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
EtherNet/IP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
IGMP (snooping/querier)	Yes
identification & maintenance function	

1&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
product functions / diagnostics	
product function	
<ul> <li>port diagnostics</li> </ul>	Yes
<ul> <li>statistics Packet Size</li> </ul>	Yes
<ul> <li>statistics packet type</li> </ul>	Yes
<ul> <li>error statistics</li> </ul>	Yes
SysLog	Yes
product functions / VLAN	
product function	
VLAN - port based	Yes
VLAN - protocol-based	No
VLAN - IP-based	No
number of VLANs / maximum	257
number of VLANs - dynamic / maximum	257
protocol / is supported / GVRP	Yes
	165
product functions / DHCP	
product function	
DHCP server	Yes
DHCP client	Yes
DHCP Option 82	Yes
<ul> <li>DHCP Option 66</li> </ul>	Yes
DHCP Option 67	Yes
product functions / redundancy	
product function	
<ul> <li>of the PROFINET IO device / is supported / PROFINET system redundancy</li> </ul>	Yes
ring redundancy	Yes
High Speed Redundancy Protocol (HRP)	Yes
<ul> <li>high speed redundancy protocol (HRP) with redundancy manager</li> </ul>	Yes
<ul> <li>high speed redundancy protocol (HRP) with standby redundancy</li> </ul>	Yes
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function	
<ul> <li>media redundancy protocol (MRP) with redundancy manager</li> </ul>	Yes
<ul> <li>Media Redundancy Protocol Interconnection (MRP-I)</li> </ul>	Yes
<ul> <li>of the PROFINET IO device / is supported / H-Sync forwarding</li> </ul>	Yes
<ul> <li>redundancy procedure STP</li> </ul>	Yes
<ul> <li>redundancy procedure RSTP</li> </ul>	Yes
<ul><li>redundancy procedure RSTP+</li></ul>	Yes
<ul> <li>redundancy procedure MSTP</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/operation in the PRP-network</li> </ul>	Yes
<ul> <li>Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA)</li> </ul>	No
passive listening	Yes
protocol / is supported	
• LACP	Yes
product functions / security	
product function	
• IEEE 802.1x (radius)	Yes
broadcast/multicast/unicast limiter	Yes
broadcast blocking	Yes
protocol / is supported	
protocor/ to oupported	

SSI Yes SSI Yes SSI Yes Product functions / time product function SICLOCK support Yes NTP-client Yes SNTP client Yes SNTP Wes SNTP Yes SN	0011	V
product functions / time product function	• SSH	Yes
product function  SICLOCK support SITP client SITP client Yes SITP client Yes Protocol / is supported NTP Yes SITP client Yes Poster modification during operation Product function / configuration in RUN via CIR/H-CIR Standards, specifications, approvals IT security for industrial automation systems / according to [CIC 62443-422019  MITER Standards, specifications, approvals / CE Coefficate of suitability / CE marking Forced configuration / CE marking Forced for immunity / according to ENC-guideline Standards Forced Line frame ce emission For immunity in CEMC For ATEX / as confficate For ATEX / as confficate For ATEX / as confficate For CLUs Hazloc / as marking For in CLUS / as conficate For CLUs Hazloc / as marking For CLUs Hazloc / as File Mr. For Hay as cantificate For CLUs Hazloc / as File Mr. For Hay as marking For CLUs Hazloc / as File Mr. For Hay as marking For CLUs Hazloc / as File Mr. For Hay as marking For CLUs Hazloc / as File Mr. For Hay as marking For CLUs Hazloc / as File Mr. For Hay as marking For CLUs Hazloc / as File Mr. For Hay as marking For CLUS As C		Yes
SICLOCK support  NTP client  Yes  NTP client  Yes  NTP yes  NTP  SNTP  SNTP  SNTP  SNTP  SNTP  SNTP  Yes  SATP  Yes  Sandards, specifications, approvals  If security for industrial automation systems / according to IEC 62483-4-2 2019  WITHER  Taecurity for industrial automation systems / according to IEC 62483-4-2 2019  WITHER  Sandards, specifications, approvals / CE  certificate of subtability / CE marking  roduct conformity / according to EMC-guideline  standard  for EMC interference emission  for immunity to EMC  EN 61000-6-2, EN 50121-4  Certificate of subtability / CRHS conformity  Yes; 2011/85/EU  Sandards, specifications, approvals / hazardous environments  certificate of subtability  ATEX  For ATEX / as certificate  for ATEX / as certificate  for ICCEX / as marking  for culture Hazboc / as marking  for culture Hazboc / as marking  for culture Hazboc / as file Nr.  For ICCEX / as certificate  for CULTS Hazboc / as file Nr.  FM registration  FM registration  FM registration  FM registration  FM registration  FM registration  Ansinsa-Registration supprovals / other  Certificate of suitability  Pes  SESOT (RNAQ, NNHPP, NWHPT)  Yes, FM class 3810-2005, ANSISSA-61101-12004  FM reluced for suitability  FM registration  Ansinsa-Registration supprovals / other  Certificate of suitability  FM registration  Anner Can Bureau of Shipping Europe Ltd. (ABS)  French marine classification association  Anner Can Bureau of Shipping (RRS)  Yes  Chocks Service of Shipping (RRS)  Pes  Loyds Register of Shipping (RRS)  Pes  Royal Institution of Naval Architects (RINA)  SCEASSANCES  FM Columbia Architects (RINA)  FM Columbi		
NTP-client SNTP Detent NTP Yes SNTP Yes SNTP Yes SNTP Yes SNTP Yes SNTP Yes SNTP Yes Standards, specifications, approvals IT security for industrial automation systems / according to ECG 2443-422019 MTBF Cardificate of suitability / CE marking product functionity / according to EMC-guideline standard • for EMC interference emission • for fem Chi interference emission • for fem Alex interference  cartificate of suitability • for fem Alex interference • for fem Alex interfer	•	
SNTP client protocol / is supported NTP System modification during operation product function / configuration in RUN via CIR/H-CIR standards, specifications, approvals IT security for industrial automation systems / according to IEC 624/3-42-2019 MTBF 48 y Standards, specifications, approvals / CE certificate of suitability / CE marking for EMC interference emission for immunity to EMC Standards, specifications, approvals / RE Standards, specifications, approvals / Inazardous environments certificate of suitability / ReHS conformity Standards, specifications, approvals / Inazardous environments certificate of suitability ATEX Standards, specifications, approvals / Inazardous environments certificate of suitability ATEX For ATEX / as certificate For CULUs HazLoc / as marking For cULUs HazLoc / as File Nr. For M registration For FM / as marking For FM / as ma		
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SNTP  product function / configuration in RUN via CiR/H-CiR  product function / configuration in RUN via CiR/H-CiR  standards, specifications, approvals  IT security for industrial automation systems / according to EC 82443-422019  MTBF  48 y  standards, specifications, approvals / CE  certificate of suitability / CE marking  product conformity / according to EMC-guideline  standard  • for EMC interference emission  • for FEMC interference emission  • for for EMC interference emission  • for for Suitability  • ATEX  • standards, specifications, approvals / hazardous environments  certificate of suitability  • ATEX  • for ATEX / as certificate  • for ATEX / as certificate  • for ATEX / as certificate  • for IECEX / as marking  • for IECEX / as marking  • for IECEX / as marking  • for cUlus HazLoc / as File Nr.  • For registration  • for FM / as marking  • for CULus HazLoc / as File Nr.  • for FM / as marking  • for FM / as certificate  • for FM / as marking  • for FM / as certificate  • for FM / as marking  • for FM / as certificate  • for FM / as pecifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for U. Bio100-2-201 / as File Nr.  • for UL 80960-1 / as File Nr.		
system modification during operation product function / configuration in RUN via CIRVH-CIR		
product function / configuration in RUN via CIRVH-CIR  Standards, specifications, approvals  IT security for industrial automation systems / according to IEC 62443-4-2:2019  MTBF  ### Standards, specifications, approvals / CE  certificate of suitability / CE marking  ### of the MC interference emission  ##		Yes
IT security for industrial automation systems / according to IEC 62443-22019  MTBF  48 y  standards, specifications, approvals / CE  certificate of suitability / CE marking		
IT security for industrial automation systems / according to IEC 62443-4:2019  MTBF  48 y  standards, specifications, approvals / CE  certificate of suitability / CE  certificate of suitability / ENS  in or ATEX / as marking  if or ATEX / as marking  if or ICLUs HazLoc / as File Nr.  if or ICLUs HazLoc / as File Nr.  if or FM / as certificate  if or FM / as certificate  if or FM / as certificate  if or ICLUs HazLoc / as File Nr.  if or FM / as certificate  if or ICLUs HazLoc / as File Nr.  if or FM / as certificate  if or ICLUs HazLoc / as File Nr.  if or FM / as certificate  if or ICLUs HazLoc / as File Nr.  if or FM / as certificate  if or ICLUs HazLoc / as File Nr.  if or FM / as certificate  if or ICLUs HazLoc / as File Nr.  if or ICLUs Haz	product function / configuration in RUN via CiR/H-CiR	Yes
IEC 62443-4-2:2019 MTEF  standards, specifications, approvals / CE certificate of suitability / CE marking for FM C inferference emission for fimmunity to EMC certificate of suitability / ROHS conformity standard  • for EMC interference emission for fimmunity to EMC certificate of suitability / ROHS conformity  **Standards, specifications, approvals / hazardous environments  certificate of suitability  • ATEX  • for ATEX / as marking • for ATEX / as marking • for ATEX / as certificate • for IECEX / as certificate • for IECEX / as certificate • for IECEX / as redificate • for CLULIS HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as marking • for FM / as marking • for fFM / as marking • for fFM / as marking • for fFM / as marking • for GLULIS HazLoc / as File Nr. • FM registration • for FM / as certificate  * for FM / as marking • for GLULIS HazLoc / as File Nr. • FM registration • for FM / as perificate  * standards, specifications, approvals / other certificate of suitability • railway application in accordance with EN 50121-4 • Regulatory Compliance Mark (RCM) • for UL 60950-1 / as File Nr. • FM for UL 61010-2:201 / as File Nr. • FM for UL 61010-2:201 / as File Nr. • FM Coll 60950-1 / as File Nr. • FM Coll 60	standards, specifications, approvals	
standards, specifications, approvals / CE certificate of suitability / CE marking		Yes
certificate of suitability / CE marking product conformity / according to EMC-guideline standard  • for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity • ATEX • for ATEX / as marking • for ATEX / as certificate • for IECEX / as marking • for IECEX / as marking • for CULUS HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as marking • for FM / as marking • for CULS HazLoc / as File Nr. • for FM / as certificate • for FM / as certificate • for FM / as marking • for FM / as marking • for IECEX / as certificate • for IECEX / as certificate • for IECEX / as certificate • CCC / for hazardous zone according to GB standard • for cULUS HazLoc / as File Nr. • FM registration • for FM / as marking • for IECEX / as certificate • for IECEX / as sertificate • for FM / as marking • for IECEX / as sertificate • for FM / as marking • for IECEX / as sertificate • for FM / as marking • for IECEX / as File Nr. • FM registration • for FM / as marking • for IECEX / as sertificate • for FM / as marking • for IECEX / as marking • for IEC	MTBF	48 y
product conformity / according to EMC-guideline standard  • for EMC interference emission • for EMC suitability / ROHS conformity  * SE EN 61000-6-2, EN 50121-4  Yes; 2011/65/EU  * SEAN ALL X  * For ATEX / as marking • for ATEX / as marking • for ATEX / as certificate • FOR ATEX / as certificate • FOR FOR Yes EN 60079-0, EN 60079-15  * FOR FOR YECK / As Entiricate • FOR FOR Yes, EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EC 60079-0, EN 60079-15  * EX PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EN 60079-0, EN 60079-15  * EX PALL IT 4 GC  * CEC' / for hazardous year and in a condition of Social Interference emission of Naval Architects (RINA)  * Posts (RIA 1 GC  * EN 60079-0, EN 60079-15  * Ex PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EN 60079-0, EN 60079-15  * Ex PALL IT 4 GC  * KEMA 07ATEX0145 X  Yes; EN 60079-0, EN 60079-15  * EX PALL IT 4 GC  * CEC' / for hazardous year and in a condition of Naval Architects (RINA	standards, specifications, approvals / CE	
standard  • for EMC interference emission  • for immunity to EMC  certificate of suitability / RoHS conformity  • for immunity to EMC  certificate of suitability / RoHS conformity  • for ATEX  • for ATEX / as marking  • for ATEX / as marking  • for IECEX / as marking  • for iECEX / as marking  • for iECEX / as marking  • for cULus HazLoc / as marking  • for cULus HazLoc / as File Nr.  • for CULus HazLoc / as File Nr.  • for FM / as a certificate  • for FM / as marking  • for FM / as marking  • for iECEX / as File Nr.  • FM registration  • for FM / as marking  • for or ULus HazLoc / as File Nr.  • FM registration  • for FM / as marking  • for or ULus HazLoc / as File Nr.  • FM registration  • for FM / as marking  • for FM / as certificate  • f	certificate of suitability / CE marking	Yes
• for EMC interference emission • for immunity to EMC certificate of suitability / RoHS conformity  standards, specifications, approvals / hazardous environments certificate of suitability • ATEX	product conformity / according to EMC-guideline	2014/30/EU
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certificate of suitability / RoHS conformity  standards, specifications, approvals / hazardous environments  certificate of suitability  • ATEX  • for ATEX / as marking  • for ATEX / as certificate  • lECEx  • for IECEx / as certificate  • CCC / for hazardous zone according to GB standard  • for cULus HazLoc / as File Nr.  • FM registration  • for FM / as marking  • for FM / as marking  • for CULus HazLoc / as File Nr.  • FM registration  • for FM / as certificate  • for UL of 1010-2-201 / as File Nr.  • FM regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • EAC approval  standards, specifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • EAC approval  standards, specifications, approvals / marine classification  Marine classification association  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Rolls Rejester of Shipping (LRS)  • Royal Institution of Naval Architects (RINA)  * Res  accessories	<ul> <li>for EMC interference emission</li> </ul>	EN 61000-6-4, EN 50121-4
certificate of suitability  ATEX  for ATEX / as marking  for ATEX / as certificate  for ATEX / as certificate  for ATEX / as certificate  for IECEx / as marking  for IECEx / as certificate  CCC / for hazardous zone according to GB standard  for cULus Hazuc / as marking  for or ULus Hazuc / as marking  CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4  E240480 (NWHP, NWHP7)  Find lass 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/SA-61010-1:2004  CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4  Find Gusosociation  Find Gusosociation  Find Gusosociation in accordance with EN 50121-4  Regulatory Compliance Mark (RCM)  for UL 61010-2-201 / as File Nr.  For UL 61010-2-201 / as File Nr.  Fassey (NRAQ, NRAQ7)  E115352 (NWGQ, NWGQ7)  Yes  standards, specifications, approvals / marine classification  Marine classification association  Marine classification association  Marine classification association  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)  French marine classification society (BV)  ONV GL  French marine classification society (BV)  Polski Register of Shipping (LRS)  French marine classification society (BV)  Polski Register of Shipping (LRS)  Polski Rejestr Statkow (PRS)  Royal Institution of Naval Architects (RINA)  polski Rejestr Statkow (PRS)  Royal Institution of Naval Architects (RINA)	• for immunity to EMC	EN 61000-6-2, EN 50121-4
certificate of suitability  ATEX  for ATEX / as marking  for ATEX / as certificate  ECEX  for IECEx / as marking  For CULus HazLoc / as marking  for IECEX / as File Nr.  FM registration  for CULus Hazloc / as File Nr.  FM registration  for FM / as marking  CL1, DIV2, Group A, B, C, D T4, CL1, Zone 2, Group IIC, T4  E240480 (NWHP, NWHP7)  FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61101-1:2004  CL1, DIV2, group A, B, C, D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C  for FM / as marking  CL1, DIV2, group A, B, C, D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C  FM16US0205X  standards, specifications, approvals / other  certificate of suitability  railway application in accordance with EN 50121-4  Regulatory Compliance Mark (RCM)  for UL 61010-2-201 / as File Nr.  FM26 E85972 (NRAQ, NRAQ7)  for UL 60950-1 / as File Nr.  E85972 (NRAQ, NRAQ7)  EAC approval  Aurine classification association  American Bureau of Shipping Europe Ltd. (ABS)  French marine classification society (BV)  DNV GL  Novean Register of Shipping (LRS)  Lloyds Register of Shipping (LRS)  Lloyds Register of Shipping (LRS)  Lloyds Rejestr Statkow (PRS)  Royal Institution of Naval Architects (RINA)  accessories	certificate of suitability / RoHS conformity	Yes; 2011/65/EU
certificate of suitability  ATEX  for ATEX / as marking  for ATEX / as certificate  ECEX  for IECEx / as marking  For CULus HazLoc / as marking  for IECEX / as File Nr.  FM registration  for CULus Hazloc / as File Nr.  FM registration  for FM / as marking  CL1, DIV2, Group A, B, C, D T4, CL1, Zone 2, Group IIC, T4  E240480 (NWHP, NWHP7)  FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61101-1:2004  CL1, DIV2, group A, B, C, D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C  for FM / as marking  CL1, DIV2, group A, B, C, D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C  FM16US0205X  standards, specifications, approvals / other  certificate of suitability  railway application in accordance with EN 50121-4  Regulatory Compliance Mark (RCM)  for UL 61010-2-201 / as File Nr.  FM26 E85972 (NRAQ, NRAQ7)  for UL 60950-1 / as File Nr.  E85972 (NRAQ, NRAQ7)  EAC approval  Aurine classification association  American Bureau of Shipping Europe Ltd. (ABS)  French marine classification society (BV)  DNV GL  Novean Register of Shipping (LRS)  Lloyds Register of Shipping (LRS)  Lloyds Register of Shipping (LRS)  Lloyds Rejestr Statkow (PRS)  Royal Institution of Naval Architects (RINA)  accessories	standards, specifications, approvals / hazardous environn	nents
• ATEX • for ATEX / as marking • for ATEX / as marking • for ATEX / as marking • for ATEX / as certificate • IECEX • for IECEX / as marking • CCC / for hazardous zone according to GB standard • for cULus HazLoc / as marking • for cULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as certificate • for FM / as marking • for FM / as certificate • for FM / as certificate • for FM / as parking • for FM / as certificate • for FM / as certificate • for FM / as parking • for FM / as certificate • ccc / for hazardous 2 for DT / cccccccccccccccccccccccccccccccccc		
• for ATEX / as marking • for ATEX / as certificate • for ATEX / as certificate • for ATEX / as certificate • for IECEx • for IECEx / as marking • for IECEx / as certificate • for IECEx / as certificate • for IECEx / as certificate • CCC / for hazardous zone according to GB standard • for cULus HazLoc / as File Nr. • for cULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as certificate  • for FM / as marking • for FM / as marking • for FM / as marking • for FM / as perificate  • for FM / as perificate  • for FM / as perificate  • for FM / as perifications, approvals / other  certificate of suitability • railway application in accordance with EN 50121-4 • Regulatory Compliance Mark (RCM) • for UL 60950-1 / as File Nr. • FAC approval  • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification association  • American Bureau of Shipping Lrope Ltd. (ABS) • French marine classification society (BV) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (KRS) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)  • recessories	•	Yes: EN 60079-0. EN 60079-15
• for ATEX / as certificate • IECEX • IECEX • for IECEX / as marking • for IECEX / as certificate • for CULus HazLoc / as marking • for CULus HazLoc / as File Nr. • for CULus HazLoc / as File Nr. • FM registration • for FM / as marking • for FM / as marking • for FM / as marking • for FM / as certificate • for FM / as certificate • for FM / as marking • for FM / as marking • for FM / as certificate • for UL 61010-2-201 / as File Nr. • for UL 61010-2-201 / as File Nr. • FM regulatory Compiliance Mark (RCM) • for UL 60950-1 / as File Nr. • EAC approval • for UL 60950-1 / as File Nr. • EAC approval  standards, specifications, approvals / marine classification  Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Korean Register of Shipping (KRS) • Lloyds Register of Shipping (KRS) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)  accessories	• for ATEX / as marking	
IECEX  If IECEX / as marking  If IECEX / as certificate  If IECEX / as certificate  IECEX / as CEX I TA GC  IECX I TA GC  IEX I TA GC  IIX IVIZ. Group A,B.C,D T4, CL1, Zone 2, group IIC, T4  IEX INTERIOR TO CALL, TA GC  IEX INTERIOR TA GC  IIX INTERIOR TA GAS 3810:2005, ANSI/ISA 61010-12.004  IEX INTERIOR TA GC  IEX INTERIOR TA GC  IEX INTERIOR TA GC  IIX INTERIOR TA GC  I	-	
<ul> <li>for IECEx / as marking</li> <li>for IECEx / as certificate</li> <li>CCC / for hazardous zone according to GB standard</li> <li>for cULus HazLoc / as marking</li> <li>for cULus HazLoc / as marking</li> <li>for cULus HazLoc / as File Nr.</li> <li>E240480 (NWHP, NWHP7)</li> <li>FM registration</li> <li>for FM / as marking</li> <li>for FM / as marking</li> <li>for FM / as certificate</li> <li>for FM / as certificate</li> <li>for FM / as certificate</li> <li>for FM / as certifications, approvals / other</li> </ul> Certificate of suitability             Paluance of the for UL 61010-2-201 / as File Nr. <ul> <li>for UL 61010-2-201 / as File Nr.</li> <li>for UL 60950-1 / as File Nr.</li> <li>EACA approval</li> <li>FEAC approval</li> <li>French marine classification society (BV)</li> <li>Polov GL</li> <li>Foren Marine classification society (BV)</li> <li>Polovida Register of Shipping (KRS)</li> <li>Korean Register of Shipping (KRS)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul>		
for IECEx / as certificate         CCC / for hazardous zone according to GB standard         for cULus HazLoc / as marking         for cULus HazLoc / as File Nr.         FM registration         FM registration		
CCC / for hazardous zone according to GB standard for cULus HazLoc / as marking for cULus HazLoc / as File Nr. FM registration  FM registration  For FM / as marking FM / as marking FM / as certificate  FM16US0205X   Standards, specifications, approvals / other  certificate of suitability For UL 60950-1 / as File Nr. FOr UL 60950-1 / as File Nr. FAC approval  Standards, specifications, approvals / marine classification  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) For DNV GL For Suitability	_	
for cULus HazLoc / as marking         for cULus HazLoc / as File Nr.         FM registration         FM registration         For FM / as marking         For FM / as certificate         For FM / as certificate		
for cULus HazLoc / as File Nr.     FM registration     Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004     for FM / as marking		
• FM registration  Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004  • for FM / as marking  CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C  • for FM / as certificate  standards, specifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • for UL 60950-1 / as File Nr.  • EAC approval  standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaliji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **Test Class 3600:2011, FM class 3611:2004, FM class 3810:2005, ANSI/ISA-61010-1:2004  Yes  **To "C  FM16US0205X  **Yes  **E85972 (NRAQ, NRAQ7)  **E855972 (NRAQ, NRAQ7)  **E115352 (NWGQ, NWGQ7)  **Yes  **Standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  **Yes  • Lloyds Register of Shipping (LRS)  • Nippon Kaliji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  **To "C  **To	Ü	
ANSI/ISA-61010-1:2004 CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C  • for FM / as certificate  standards, specifications, approvals / other  certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • for UL 60950-1 / as File Nr.  • EAC approval  standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)		
• for FM / as certificate     • for FM / as certificate  standards, specifications, approvals / other  certificate of suitability     • railway application in accordance with EN 50121-4     • Regulatory Compliance Mark (RCM)     • for UL 61010-2-201 / as File Nr.     • for UL 60950-1 / as File Nr.     • EAC approval     • EAC approval  standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)     • French marine classification society (BV)     • DNV GL     • Korean Register of Shipping (KRS)     • Lloyds Register of Shipping (LRS)     • Nippon Kaiji Kyokai (NK)     • Polski Rejestr Statkow (PRS)     • Royal Institution of Naval Architects (RINA)  accessories	- i m rogiotiation	
certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • for UL 60950-1 / as File Nr.  • EAC approval  Standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)	• for FM / as marking	
certificate of suitability  • railway application in accordance with EN 50121-4  • Regulatory Compliance Mark (RCM)  • for UL 61010-2-201 / as File Nr.  • for UL 60950-1 / as File Nr.  • EAC approval  Standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)	<ul><li>for FM / as certificate</li></ul>	FM16US0205X
railway application in accordance with EN 50121-4     Regulatory Compliance Mark (RCM)     for UL 61010-2-201 / as File Nr.     for UL 60950-1 / as File Nr.     EAC approval      EAC approval  Marine classification association  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) DNV GL Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) Royal Institution of Naval Architects (RINA)  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	standards, specifications, approvals / other	
Regulatory Compliance Mark (RCM)  for UL 61010-2-201 / as File Nr.  for UL 60950-1 / as File Nr.  E115352 (NWGQ, NWGQ7)  EAC approval  Yes  Standards, specifications, approvals / marine classification  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)  French marine classification society (BV)  DNV GL  Korean Register of Shipping (KRS)  Lloyds Register of Shipping (LRS)  Nippon Kaiji Kyokai (NK)  Polski Rejestr Statkow (PRS)  Royal Institution of Naval Architects (RINA)  Yes  accessories	certificate of suitability	
Regulatory Compliance Mark (RCM)  for UL 61010-2-201 / as File Nr.  for UL 60950-1 / as File Nr.  E115352 (NWGQ, NWGQ7)  EAC approval  Yes  Standards, specifications, approvals / marine classification  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)  French marine classification society (BV)  DNV GL  Korean Register of Shipping (KRS)  Lloyds Register of Shipping (LRS)  Nippon Kaiji Kyokai (NK)  Polski Rejestr Statkow (PRS)  Royal Institution of Naval Architects (RINA)  Yes  accessories	· ·	Yes
<ul> <li>for UL 61010-2-201 / as File Nr.</li> <li>for UL 60950-1 / as File Nr.</li> <li>EAC approval</li> <li>EAC approval</li> <li>Standards, specifications, approvals / marine classification</li> <li>Marine classification association</li> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul>		Yes
• EAC approval  standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS) Yes  • French marine classification society (BV) Yes  • DNV GL  • Korean Register of Shipping (KRS) Yes  • Lloyds Register of Shipping (LRS) Yes  • Nippon Kaiji Kyokai (NK) Yes  • Polski Rejestr Statkow (PRS) Yes  • Royal Institution of Naval Architects (RINA) Yes  accessories		E85972 (NRAQ, NRAQ7)
Standards, specifications, approvals / marine classification  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS) Yes  • French marine classification society (BV) Yes  • DNV GL Yes  • Korean Register of Shipping (KRS) Yes  • Lloyds Register of Shipping (LRS) Yes  • Nippon Kaiji Kyokai (NK) Yes  • Polski Rejestr Statkow (PRS) Yes  • Royal Institution of Naval Architects (RINA) Yes  accessories	● for UL 60950-1 / as File Nr.	E115352 (NWGQ, NWGQ7)
Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  accessories	<ul> <li>EAC approval</li> </ul>	Yes
Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • DNV GL  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  • Royal Institution of Naval Architects (RINA)  accessories	standards, specifications, approvals / marine classification	n
American Bureau of Shipping Europe Ltd. (ABS)     French marine classification society (BV)     DNV GL     Korean Register of Shipping (KRS)     Lloyds Register of Shipping (LRS)     Nippon Kaiji Kyokai (NK)     Polski Rejestr Statkow (PRS)     Royal Institution of Naval Architects (RINA)  American Bureau of Shipping Europe Ltd. (ABS)  Yes  Yes  Yes  Yes  Yes  Yes  Polski Rejestr Statkow (PRS)  Royal Institution of Naval Architects (RINA)  Yes		
<ul> <li>French marine classification society (BV)</li> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul>	American Bureau of Shipping Europe Ltd. (ABS)	Yes
<ul> <li>DNV GL</li> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul> yes  yes  Yes  Yes  Yes  Yes  Royal Institution of Naval Architects (RINA)  Yes		
<ul> <li>Korean Register of Shipping (KRS)</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul> yes  Yes  Yes  Yes  Yes  Yes  Yes  Royal Institution of Naval Architects (RINA)  Yes		
<ul> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> </ul> accessories		
<ul> <li>Nippon Kaiji Kyokai (NK)</li> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> <li>accessories</li> </ul>		
<ul> <li>Polski Rejestr Statkow (PRS)</li> <li>Royal Institution of Naval Architects (RINA)</li> <li>accessories</li> </ul>		
Royal Institution of Naval Architects (RINA)  Accessories  Yes		
accessories		
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product extension / optional / C-PLUG Yes		Vac
	product extension / optional / C-PLUG	Tes

## further information / internet-Links

## Internet-Link

• to web page: selection aid TIA Selection Tool

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx-Download-Manager

• to website: Industry Online Support

http://www.siemens.com/tia-selection-tool

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

## security information

security information

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

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