



Overview

Specifications

Resources









DELIVERY PROGRAM

Delivery program

Technical data

Function

XI/ON I/O modules

Design verification as

per IEC/EN 61439

Function

XNE Slice module

Technical data ETIM 7.0

Short Description 4 Analog outputs -10/0 to +10 V DC 0/4 to 20 mA

Switchable as channels

Approvals

Dimensions

TECHNICAL DATA

General

Standards EN61000-6-2 EN61000-6-4 EN61131-2

Potential isolation Yes, through optocoupler

Ambient temperature Ambient temperature, operation 0 - +55 °C

Ambient temperature Storage, transport [4] -25 - +85 °C

Relative humidity
Relative humidity
5 - 95 % (indoor), Level RH-2, no condensation
(for storage at 45°C)

Ambient conditions, mechanical Degree of Protection IP20

Ambient conditions, mechanical Harmful gases SO₂: 10 (rel. humidity < 75%, no condensation) H₂S: 1.0 (rel. humidity < 75 %,no condensation) ppm

Vibration resistance, operating conditions according to IEC/EN 60068-2-6 $\,$

Mechanical shock resistance according to IEC 60068-2-27 g

Continuous shock resistance (IEC/EN 60068-2-29) According to IEC 60068-2-29

Drop and topple According to IEC 60068-2-31, free fall according to IEC 60068-2-32

ESD [Air/contact discharge]
EN 61000-4-2 kV

Bectromagnetic compatibility (BVC)
Bectromagnetic fields [(0.08...1) / (1,4...2) / (2...
2,7) GHz]

Burst
EN 61100-4-4

Electromagnetic compatibility (EVC) Surge EN 61100-4-5

Bectromagnetic compatibility (BVC) Radiated RFI BN 61100-4-6 V

Exercised Electromagnetic compatibility (EMC)
Emitted interference (radiated, high frequency)
[(30...230 MHz) / (230...1000 MHz)]
EN 55016-2-3 dB

Bectromagnetic compatibility (BVC) Voltage fluctuations/voltage dips BN 61131-2

Bectromagnetic compatibility (BMC) Type test to BN 61131-2

Approvals CE, cULus EAC

Other technical data (sheet catalogue) Technical Data

Terminations

Rated data according to VDE 0611 Part 1/8.92 /

IEC/EN 60947-7-1

Connection design in TOP direction Push-In spring-cage terminals

Stripping length 8 mm

Clamping range max. 0.14 - 1.5 mm²

Connectable conductors "e" solid H07V-U 0.25 - 1.5 mm²

Connectable conductors
"f" flexible H 07V-K
0.25 - 1.5 mm²

Connectable conductors
"f" with ferrules without plastic collar according to
DIN 46228-1 (ferrules crimped gas-tight)
0.25 - 1.5 mm²

Connectable conductors
"f" with ferrules with plastic collar according to
DIN 46228-1 (ferrules crimped gas-tight)
0.25 - 0.75 mm²

Connectable conductors
"e" solid H07V-U
0.25 - 1.5 mm²

Connectable conductors "f" flexible H07V-K 0.25 - 1.5 mm²

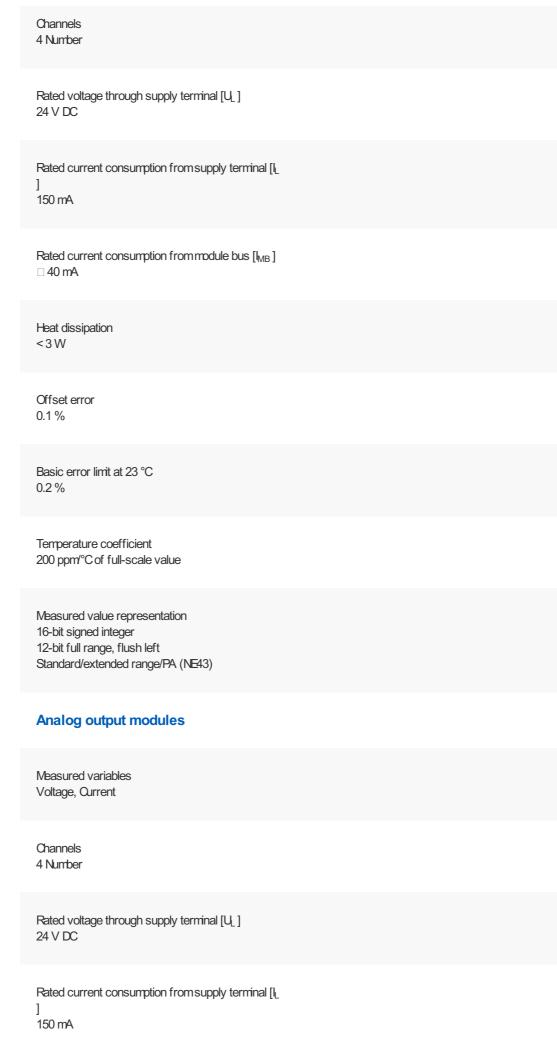
Connectable conductors
"f" with ferrules without plastic collar according to
DIN 46228-1 (ferrules crimped gas-tight)
0.25 - 1.5 mm²

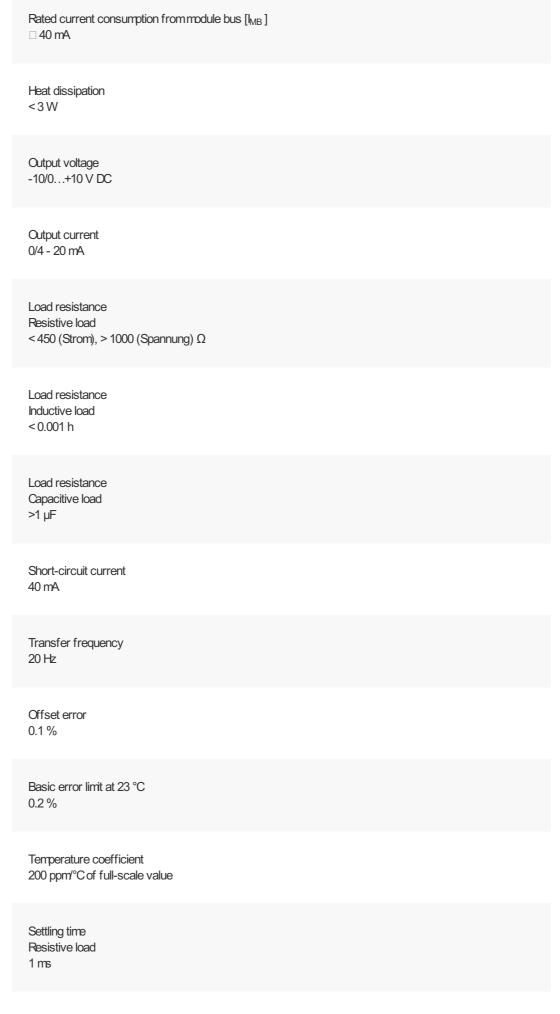
Connectable conductors
"f" with ferrules with plastic collar according to
DIN 46228-1 (ferrules crimped gas-tight)
0.25 - 0.75 mm²

Gauge pin IEC/EN 60947-1 A1

Analog input modules

Measured variables Voltage, Current





Settling time

Settling time Capacitive load 2 ms Measured value representation 16-bit signed integer 12-bit full range, flush left Standard/extended range/PA (NE43) **Digital outputs** Channels 4 Number Rated voltage through supply terminal [U_] 24 V DC Rated current consumption from the supply terminal (at load current = 0 mA) [I_L] 150 mA Rated current consumption from module bus [I_{MB}] □ 40 mA Power loss [P] Normally 3 W Resistive load < 450 (Strom), > 1000 (Spannung) Ω Inductive load < 0.001 h **Digital inputs** Channels 4 Number Rated voltage through supply terminal [U_] 24 V DC

Inductive load

2 ms

```
Rated current consumption from supply terminal [L
150 mA
Rated current consumption from module bus [I<sub>MB</sub>]
□ 40 mA
Heat dissipation
<3W
Relay modules
Rated voltage through supply terminal [U_]
24 V DC
Rated current consumption from supply terminal [L
150 mA
Rated current consumption from module bus \left[I_{MB}\right]
□ 40 mA
Power loss [P]
Normally 3 W
Power supply module
Rated voltage through supply terminal [U_]
24 V DC
Rated current consumption from supply terminal [L
150 mA
Rated current consumption from module bus [I_{MB}]
□ 40 mA
Power loss [P]
3 W
Counter module
```

Rated voltage through supply terminal [U_] 24 V DC
Rated current consumption from supply terminal [I _L] 150 mA
Rated current consumption from module bus [I_{MB}] \Box 40 mA
Heat dissipation < 3 W
Measuring modes
Temperature coefficient 200 ppm/°C of full-scale value
Interfaces
Rated voltage through supply terminal [U_] 24 V DC
Rated current consumption from supply terminal [I _L] 150 mA
Rated current consumption from module bus [I _{MB}] $_{\square}$ 40 mA
Power loss [P] Normally 3 W

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation $[\mbox{\sc l}_n]$

Heat dissipation per pole, current-dependent $[P_{id}]$ 0 W

Equipment heat dissipation, current-dependent

[P_{vid}] 0 W

Static heat dissipation, non-current-dependent $[P_{\!\scriptscriptstyle V\!S}]$ 3 W

Heat dissipation capacity [P_{diss}] 0 W

Operating ambient temperature min. $0 \, ^{\circ}\text{C}$

Operating ambient temperature max. +55 °C

Degree of Protection IP20

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat Weets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects Weets the product standard's requirements. 10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiationMeets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Mechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES Weets the product standard's requirements.

10.4 Clearances and creepage distances Weets the product standard's requirements.

10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections is the panel builder's responsibility.

10.8 Connections for external conductors Is the panel builder's responsibility.

10.9 Insulation properties 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.

10.9 Insulation properties 10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9 Insulation properties 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility.

10.10 Temperature rise
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating Is the panel builder's responsibility.

10.12 Electromagnetic compatibility Is the panel builder's responsibility.

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

TECHNICAL DATA ETIM 7.0

PLCs (EG000024) / Fieldbus, decentr. periphery - analogue I/O module (EC001596)

Bectric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - analogue I/O module (ecl@ss10.0.1-27-24-26-01 [BAA061014])

Supply voltage AC 50 Hz 0 - 0 V

Supply voltage AC 60 Hz 0 - 0 V

Supply voltage DC 20.4 - 28.8 V

Voltage type of supply voltage DC

Input, current No

Input, voltage No
Input, resistor No
Input, resistance thermometer No
Input, thermocouple No
Input signal, configurable No
Resolution of the analogue inputs 0 Bit
Output, current Yes
Output, voltage Yes
Output signal configurable Yes
Resolution of the analogue outputs 16 Bit
Number of analogue inputs 0
Number of analogue outputs 4
Analogue inputs configurable Yes
Analogue outputs configurable Yes

Number of HW-interfaces PS-232 0 Number of HW-interfaces PS-232 0 Number of HW-interfaces PS-422 0 Number of HW-interfaces PS-485 0 Number of HW-interfaces serial TTY 0 Number of HW-interfaces parallel 0 Number of HW-interfaces Wireless 0 Number of HW-interfaces USB 0 Number of HW-interfaces other 1 Supporting protocol for TCPIP No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS No	Number of HVV-interfaces industrial Ethernet 0
Number of HW-interfaces RS-422 Number of HW-interfaces RS-485 Number of HW-interfaces serial TTY Number of HW-interfaces parallel Number of HW-interfaces Wireless Number of HW-interfaces Wireless Number of HW-interfaces USB Supporting protocol for TCPIP No Supporting protocol for CAN No Supporting protocol for NIEFBUS	
Number of HW-interfaces RS-485 Number of HW-interfaces serial TTY Number of HW-interfaces parallel Number of HW-interfaces Wireless Number of HW-interfaces USB Number of HW-interfaces other Supporting protocol for TOPIP No Supporting protocol for CAN No Supporting protocol for INTERBUS	
Number of HW-interfaces serial TTY Number of HW-interfaces parallel Number of HW-interfaces Wireless Number of HW-interfaces USB Number of HW-interfaces other Supporting protocol for TCP/IP No Supporting protocol for FROFIBUS No Supporting protocol for CAN No	
Number of HW-interfaces parallel Number of HW-interfaces Wireless Number of HW-interfaces USB Number of HW-interfaces other Supporting protocol for TCP/IP No Supporting protocol for FROFIBUS No Supporting protocol for CAN No	
Number of HW-interfaces Wireless Number of HW-interfaces USB Number of HW-interfaces other Supporting protocol for TCP/IP Supporting protocol for FROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS	
Number of HW-interfaces USB Number of HW-interfaces other Supporting protocol for TCP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS	
Number of HW-interfaces other Supporting protocol for TCP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS	
Supporting protocol for TOP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS	
Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS	
Supporting protocol for CAN No	
No Supporting protocol for INTERBUS	

Number of HW-interfaces industrial Ethernet

Supporting protocol for KNX Supporting protocol for MODBUS No Supporting protocol for Data-Highway Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for LON Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA No Supporting protocol for SERCOS No Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work No Supporting protocol for DeviceNet Safety No

Supporting protocol for INTERBUS-Safety

No

Supporting protocol for PROFIsafe No
Supporting protocol for SafetyBUS p No
Supporting protocol for other bus systems No
Radio standard Bluetooth No
Radio standard WLAN 802.11 No
Radio standard GPRS No
Radio standard GSM No
Radio standard UMTS No
IO link master No
Systemaccessory Yes
Degree of protection (IP) IP20
Degree of protection (NEWA)
Type of electric connection Screw-/spring clamp connection
Fieldbus connection over separate bus coupler possible Yes

Rail mounting possible Yes
Wall mounting/direct mounting No
Front build in possible No
Rack-assembly possible No
Suitable for safety functions No
Category according to BN 954-1
SIL according to IEC 61508 None
Performance level acc. EN ISO 13849-1 None
Appendant operation agent (Ex ia) No
Appendant operation agent (Ex ib) No
Explosion safety category for gas None
Explosion safety category for dust None
Width 13 mm
Height 161.5 mm
Depth 74.5 mm

APPROVALS

Product Standards IEC/EN 6113-2; CE marking

North America Certification Request filed for UL and CSA

Specially designed for North America No

Current Limiting Circuit-Breaker No

DIMENSIONS



Link to sheet catalogue Dimensions







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