## **DATASHEET - XN-S4S-SBBC**



Base module washer XI/ON, screw, 4 connection levels, con. to C rail

Powering Business Worldwide\*

Part no. XN-S4S-SBBC Catalog No. 140089

# **Delivery program**

71 0	
Function	XI/ON slice card base modules
Connection levels	4 connection levels
Connection technique	Screw terminals
Function	for Slice module
Short Description	Connection to C rail
For use with	XN-2DI-24VDC-P XN-2DI-24VDC-N XN-2DI-120/230VAC

# Technical data General

delleral			
Standards			EN 61000-6-2 EN 61000-6-4 EN 61131-2
Potential isolation			Yes, through optocoupler
Ambient temperature		°C	0 - +55
Relative humidity			5 - 95 % (indoor), Level RH-2, no condensation (for storage at 45°C)
Harmful gases		ppm	$SO_2$ : 10 (rel. humidity < 75%, no condensation) H <sub>2</sub> S: 1.0 (rel. humidity < 75 %,no condensation)
Vibration resistance, operating conditions			according to IEC/EN 60068-2-6
Mechanical shock resistance		g	according to IEC 60068-2-27
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
Degree of Protection			IP20
Electromagnetic compatibility (EMC)			
ESD	Air/contact discharge	kV	EN 61000-4-2
Electromagnetic fields	(0.081) / (1,42) / (2 2,7) GHz	V/m	EN 61100-4-2
Burst			EN 61100-4-4
Surge			EN 61100-4-5
Radiated RFI		V	EN 61100-4-6
Emitted interference (radiated, high frequency)	(30230 MHz) /	dB	EN 55016-2-3

Voltage fluctuations/voltage dips		EN 61131-2
Type test		to EN 61131-2
Approvals		CE, cUL (where required in process)
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		Spring-loaded/screw terminal
Stripping length	mm	8
Clamping range		max. 0.5 - 2.5 mm <sup>2</sup>
Connectable conductors		
"e" solid H07V-U	mm <sup>2</sup>	0.5 - 2.5
"f" flexible H 07V-K	$mm^2$	0.5 - 1.5
"f" with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)	mm <sup>2</sup>	0.5 - 1.5
"f" with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)	mm <sup>2</sup>	0.5 - 1.5
Gauge pin IEC/EN 60947-1		A1

(230...1000 MHz)

## Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
Degree of Protection			IP20
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
$10.2.3.3\ Verification\ of\ resistance\ of\ insulating\ materials\ to\ abnormal\ heat\ and\ fire\ due\ to\ internal\ electric\ effects$			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Meets the product standard's requirements.
10.4 Clearances and creepage distances			Meets 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.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
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**

PLC's (EG000024) / Fieldbus, decentr. periphery - mounting frame (EC001598)

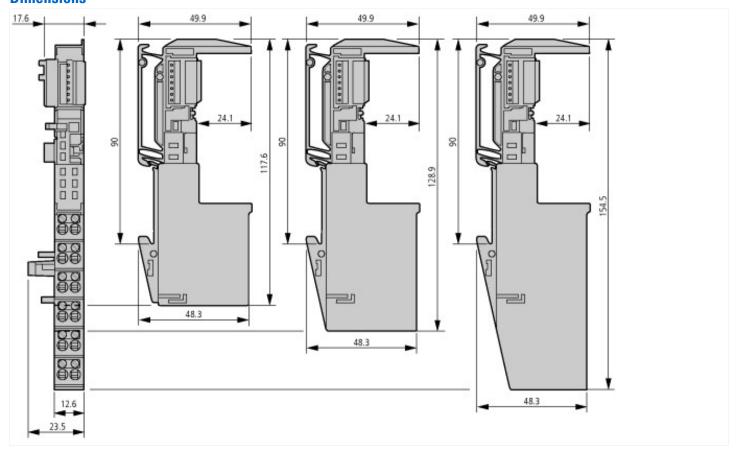
Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - module carrier (ecl@ss10.0.1-27-24-26-03

input voltage at AC 50 Hz         V         0 - 0           input voltage at AC 60 Hz         V         0 - 0           input voltage at AC 60 Hz         V         0 - 0           idex. input current AC 50 Hz         A         0           idex. input current AC 60 Hz         A         0           idex. input current AC 60 Hz         A         0           idex. input current AC 60 Hz         A         0           input voltage at AC 50 Hz         V         0 - 0           input voltage at AC 60 Hz         V         0 - 0           input voltage at AC 60 Hz         V         0 - 0           input voltage at AC 60 Hz         A         0	[BAA064013])	aecentralizea peripne	rai/ riela bus, decentralized periprierai - inodule carrier (eci@ss10.0.1-2/-24-20-03
	With integrated power supply		Yes
your of voltage at DC your of voltage (injust voltage) disk. injust current AC 50 H2 voltage at AC 50 H7 voltage at	Input voltage at AC 50 Hz	V	0 - 0
DC	Input voltage at AC 60 Hz	V	0 - 0
Ass. input current AC 50 Hz	Input voltage at DC	V	0 - 0
das. input current AC 60 Hz         A         0           das. input current DC         A         0           Output voltage at AC 50 Hz         V         0         0           Upput voltage at AC 60 Hz         V         0         0           Upput voltage at AC 50 Hz         V         0         0           das. output current AC 50 Hz         A         0           With pluggable modules, dusticution and technology modules         No         No           Vibit pluggable modules, function and technology modules         No         No	Type of voltage (input voltage)		DC
dax. injut current DC         A         0           Uutput voltage at AC 50 Hz         V         0 - 0           Uutput voltage at AC 60 Hz         V         0 - 0           Vype of output voltage         V         0 - 0           dbaz. output current AC 50 Hz         A         0           With pluggable modules, digital I/O         No         No           With pluggable modules, central modules         A         No           With pluggable modules, central modul	Max. input current AC 50 Hz	Α	0
Dutput voltage at AC 50 Hz         V         0 - 0           Dutput voltage at AC 60 Hz         V         0 - 0           Sype of output voltage at AC 50 Hz         DC           Gype of output voltage at AC 50 Hz         A         0           Make, output current AC 50 Hz         A         0           Make, output current AC 50 Hz         A         0           Make, output current AC 50 Hz         A         0           Max. output current DC         A         0         0           Max. output current DC         A         0         0           With pluggable modules, degrated to Mx. Supperdate Mx. Supperdate Mx. Supperdated Mx. Supper	Max. input current AC 60 Hz	Α	0
Output voltage at AC 60 Hz         V         0 - 0           Dutput voltage at DC         V         0 - 0           Vyse of toutput voltage         DC           Max. output current AC 60 Hz         A         0           Max. output current AC 60 Hz         A         0           Max. output current DC         A         0           Max. output current DC         A         0           Vist plugable modules, digital I/IO         Yes           With plugable modules, digital I/IO         Yes           With plugable modules, analogue I/O         No           With plugable modules, communication modules         No           With plugable modules, current modules         No           With plugable modules, central modules         No           With pluga	Max. input current DC	Α	0
Output voltage at DC         V         0 - 0           Sype of output voltage         DC           Max. output current AC 50 Hz         A         0           Myth pluggable modules, digital I/O         Yes         1           With pluggable modules, communication modules         No         No           With pluggable modules, central modules         Yes         No           With pluggable modules, central modules         Yes         No           Wall mounting possible         Yes         No           Wall mounting direct mounting         No         No           Valid mounting furcet mounting         No         No           Valid mounting furcet mounting         No         No           Valid mounting furcet mounting	Output voltage at AC 50 Hz	V	0 - 0
Type of output voltage         DC           Max. output current AC 50 Hz         A         0           Max. output current AC 60 Hz         A         0           Max. output current DC         A         0           Vistore accessory         Yes           Vistore accessory         1           Vistore bulges be modules, digital I/O         Yes           With pluggable modules, digital I/O         No           With pluggable modules, communication modules         No           With pluggable modules, current and modules         Yes           With pluggable modules, current and modules         Yes           With pluggable modules, current and modules         Yes           Wall mounting possible         No           Wall mounting possible         No           Wall mounting (direct mounting         Yes           Valuable for safety functions         Yes           Valuable for safety functions <t< td=""><td>Output voltage at AC 60 Hz</td><td>V</td><td>0 - 0</td></t<>	Output voltage at AC 60 Hz	V	0 - 0
Ada coutput current AC 50 Hz Ada coutput current AC 60 Hz Ada coutput current DC AD Coutput current DC AD COUTPUT CURRENT COUTPUT CURRENT COUTPUT CURRENT COUTPUT CURRENT COUTPUT CURRENT COUTPUT CURRENT CURR	Output voltage at DC	V	0 - 0
Max. output current DC         A         0           Max. output current DC         A         0           System accessory         Yes           Number of slots         1           With pluggable modules, digital I/O         Yes           With pluggable modules, analogue I/O         No           With pluggable modules, communication modules         No           With pluggable modules, function and technology modules         Yes           With pluggable modules, central modules         Yes           Wall mounting/direct mounting         Yes           Value         No           Value <t< td=""><td>Type of output voltage</td><td></td><td>DC</td></t<>	Type of output voltage		DC
Alex output current DC         A         0           System accessory         Yes           Number of slots         1           With pluggable modules, digital VO         Yes           With pluggable modules, analogue I/O         No           With pluggable modules, communication modules         No           With pluggable modules, current modules         Yes           Wall mounting/direct mounting         No           Wall mounting/direct mounting         No           Sack-assembly possible         No           Sack-assembly possible         No	Max. output current AC 50 Hz	Α	0
Aumber of slots  Vith plugable modules, digital I/O  Vith plugable modules, analogue I/O  Vith plugable modules, communication modules  Vith plugable modules, function and technology modules  Vith plugable modules, function and technology modules  Vith plugable modules, central modules  Vith plugable modules, central modules  Vith plugable modules, others  Vith plugable modules  Vit	Max. output current AC 60 Hz	Α	0
Aumber of slots         1           Victo pluggable modules, digital I/O         Yes           Victo pluggable modules, analogue I/O         No           Victo pluggable modules, communication modules         No           With pluggable modules, cunction and technology modules         Yes           With pluggable modules, central modules         Yes           With pluggable modules, central modules         Yes           With pluggable modules, others         No           Wall mounting possible         Yes           Wall mounting/direct mounting         No           Wall mounting forest pfunctions         No           Wack-assembly possible         No           Wack-assembly possible         No           Wack-assembly possible         No           Wack-assembly possible         No           Water of safety functions         No           Water of safety functions         No           Water of safety functions         No           Water of safety function agent (Ex is)         None           Appendant operation agent (Ex is)         No           Appendant operation agent (Ex is)         None           Appendant operation agent (Ex is)         None           Explosion safety category for dust         None	Max. output current DC	Α	0
With pluggable modules, digital I/O With pluggable modules, communication modules With pluggable modules, cuntroin and technology modules With pluggable modules, function and technology modules With pluggable modules, central modules With pluggable modules, central modules With pluggable modules, central modules With pluggable modules, others With pluggable modules, central modules With plug	System accessory		Yes
No Note pluggable modules, communication modules Note pluggable modules, function and technology modules Note pluggable modules, central modules Note pluggable modules, others Note pluggable modules, central modules Note pluggabl	Number of slots		1
Nith pluggable modules, communication modules Nith pluggable modules, function and technology modules Nith pluggable modules, central modules Nith pluggable modules,	With pluggable modules, digital I/O		Yes
With pluggable modules, function and technology modules With pluggable modules, central modules With pluggable modules, others No	With pluggable modules, analogue I/O		No
With pluggable modules, central modules With pluggable modules, others Rail mounting possible Wall mounting/direct mounting Rail mounting/direct mounting Ra	With pluggable modules, communication modules		No
With pluggable modules, others  All mounting possible  Wall mounting/direct mounting  Wall mo	With pluggable modules, function and technology modules		No
Rail mounting possible  Mall mounting/direct mounting  Mall mounting/direct mounting  Mo  Rack-assembly possible  Rock-assembly possible  Suitable for safety functions  Category according to EN 954-1  SIL according to IEC 61508  Performance level acc. EN ISO 13849-1  Appendant operation agent (Ex ia)  Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  mm  12.6  Height  No  No  No  No  No  No  No  No  No  N	With pluggable modules, central modules		Yes
Nall mounting/direct mounting Front build in possible Rack-assembly possible Rack-assembly possible Ruitable for safety functions Rategory according to EN 954-1 Sil according to IEC 61508 Reformance level acc. EN ISO 13849-1 Rependant operation agent (Ex ia) Rependant operation agent (Ex ib) Rependant operation	With pluggable modules, others		No
Front build in possible  Rack-assembly possible  Rutable for safety functions  Rutable for safet	Rail mounting possible		Yes
Rack-assembly possible Suitable for safety functions Suitable for	Wall mounting/direct mounting		No
Suitable for safety functions Category according to EN 954-1 SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width Mind I 2.6 Height Mo No	Front build in possible		No
Category according to EN 954-1  SIL according to IEC 61508  Performance level acc. EN ISO 13849-1  Appendant operation agent (Ex ia)  Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  Minum 12.6  Height  None  None  None  128.9	Rack-assembly possible		No
SIL according to IEC 61508 Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Width  mm  12.6 Height  None  None  None  None  128.9	Suitable for safety functions		No
Performance level acc. EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Appendant operation agent (Ex ia) Ap	Category according to EN 954-1		
Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Appendant operation agent (Ex ia) Append	SIL according to IEC 61508		None
Appendant operation agent (Ex ib)  Explosion safety category for gas  Explosion safety category for dust  Width  mm 12.6  Height  mm 128.9	Performance level acc. EN ISO 13849-1		None
Explosion safety category for gas  Explosion safety category for dust  None  None  None  Midth  mm 12.6  Height  mm 128.9	Appendant operation agent (Ex ia)		No
Explosion safety category for dust  None  Width  mm 12.6  Height 128.9	Appendant operation agent (Ex ib)		No
Midth mm 12.6 Height mm 128.9	Explosion safety category for gas		None
leight mm 128.9	Explosion safety category for dust		None
	Width	mm	12.6
Depth mm 49.9	Height	mm	128.9
	Depth	mm	49.9

## Approvals

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Product Standards	UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
UL File No.	E205091
UL Category Control No.	NRAQ, NRAQ7
CSA File No.	UL report applies to both US and Canada
CSA Class No.	2252-01, 2252-81
North America Certification	UL recognized, certified by UL for use in Canada
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP20, UL/CSA Type: -

## **Dimensions**



#### **Assets (links)**

**Declaration of CE Conformity** 

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## **Additional product information (links)**

Technical Data

http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111