

# How to install Automation Platforms for Merchant Navy applications

Schneider Electric 06516 Carros - France

#### **DISCLAIMER**

Instructions provided in this Technical Resolution do not substitute for Merchant Navies Rules applicable in ship manufacturing or ship maintenance & installation.

#### RELEVANT STANDARDS

These devices have been manufactured in accordance with:

- IACS-E10
- IEC 60945 with a selection of applicable sections
- IEC 60092-504 with a selection of applicable sections
- IEC61131-1, IEC61131-2, IEC61131-3

#### We cannot accept any responsibility for failure to observe these regulations.

#### **RELEVANT PRODUCTS**

These recommendations relate to Process Automation Control (Programmable Controllers, components of Distributed Control Systems and Remote IOs) for installation for Merchant Navy or off-shore applications

#### **GENERAL INSTALLATION INSTRUCTIONS**

Make sure that you follow all the recommendations in the User Manuals and especially those listed below.

#### MERCHANT NAVIES INSTALLATION INSTRUCTIONS

#### General

Check the IP Code (Degrees of protection provided by enclosures) for compliance with your installation.

Check grounding and cabling guidelines for EMC mitigation measures in Schneider Electric user manuals.

Only analogue, digital and telecommunication signal pairs can be bounded against each other in one bundle or run in the same bundled cable.

The relay, variator, supply and power circuits must be separated from the pairs above.

Take special care when setting up the speed variators to separate the power connections from the data connections.

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## Premium (TSX57)

For installation in GENERAL POWER DISTRIBUTION ZONE

To comply with EMC requirements in the GENERAL POWER DISTRIBUTION ZONE, products must be installed with accessories detailed in the table below:

Products	Instructions for Installation
All	Equipment is installed inside a EMC cabinet (e.g. NSYS3HF in the
	Schneider Electric catalogue) and fixed on a metallic grid.
	Power cables for TSXPSY must fitted :
	with Schaffner filter, FN 2070-1-06 on 48Vdc power supply, and
	Schaffner filter, FN 670-3/06 on 24Vdc power supply or equivalent.

## Quantum (140 followed by letters and numbers)

For installation in GENERAL POWER DISTRIBUTION ZONE

To comply with EMC requirements in the GENERAL POWER DISTRIBUTION ZONE, products must be installed with accessories detailed in the table below:

Products	Instructions for Installation
All	Equipment is installed inside a EMC cabinet (e.g. NSYS3HF in the Schneider Electric catalogue) and fixed on a metallic grid.



# M340 / M580 (BMX or BME followed by letters and numbers)

Depending Merchant Navy agency, the system including this equipment can be verified before installation on board.

Please refer to current Type Approval or contact Schneider support for any further information.

Specific use on board: A.C. Modicon X80 Power supply and I/O modules shall be used in 110-230 V a.c. range only.

For installation in	For installation in
GENERAL POWER DISTRIBUTION ZONE	BRIDGE
GENERAL FOWER DISTRIBUTION ZONE	BNIDGE
Equipment is installed inside a EMC cabinet (e.g.	All products comply without cabinet nor filter.
NSYS3HF in the Schneider Electric catalogue) and	All products comply without cabinet not litter.
fixed on a metallic grid, in order to obtain the	
necessary attenuation to comply with the limits for	
the frequency range 156-165 MHz.	
BME P58 6040 (C )	DMV D24 1000 (U)
BME P58 5040 (C )	BMX P34 1000 (H) BMX P34 2000
BME P58 4040	BMX P34 2000
BME P58 4020	
BME P58 3040	BMX P34 20102 (CL) BMX P34 2020 (H)
BME P58 3020	BMX P34 2030
BME P58 2040 (H)	BMX P34 20302 (H) (CL)
BME P58 2020 (H)	BMX PRA 0100
BME P58 1020 (H)	BMX P34 20 ITRB
BME H58 6040 (C )	BMX CPS 2000
BME H58 4040 (C ) BME H58 4040 (K) (C )	BMX CPS 2000
BME H58 2040 (K) (C)	BMX CPS 3020 (H)
BME P58 4040S	BMX CPS 3500 (H)
BME P58 2040S	BMX DAI 1604 (H)
BME P58 CPROS3	BMX DDI 1602 (H)
BME H58 4040S	BMX DDI 1604 T
BME H58 2040S	BMX DDI 3202 K (H)
BME H58 6040S	BMX DDI 6402 K (H)
BMX SAI 0410	BMX DDM 16022 (H)
BMX SDI 1602	BMX DDM 16022 (11) BMX DDM 16025 (H)
BMX SDO 0802	BMX DDM 10025 (11) BMX DDM 3202 K
BMX SRA 0405	BMX DDO 1602 (H)
BMX CPS 3540 T	BMX DDO 3202 K (C)
BMX CPS 4002 (H) (S)	BMX DDO 6402 K (C)
BMX CPS 4022 (H) (S)	BMX DRA 0805 (H)
BMX CPS 3522 (H) (S)	BMX DRA 1605 (H)
BMX XBE 1000 (H)	BMX DRA 0804 T
BMX CRA 31200	BMX AMI 0410 (H)
BMX CRA 31210 (C)	BMX AMI 0800
BME CRA 31210 (C)	BMX AMI 0810 (H)
BMX DAI 0814	BMX AMO 0210 (H)
BMX DAI 1614 (H)	BMX AMO 0410 (H)
BMX DAI 1615 (H)	BMX ART 0414 (H)
BMX DAI 0805	BMX NOE 0100 (H)
BMX DAI 1602 (H)	BMX NOE 0110 (H)
BMX DAI 1603 (H)	BMX NOC 0401
BMX DAO 1605 (H)	BMX NOC 0402
BMX DAO 1615 (H)	BMX EHC 0200 (H)
BMX DDI 1603 (H)	BMX EHC 0800 (H)
BMX DDO 1612 (H)	BMX ETM 0200 H
BMX DRA 0815 (H)	BMX MSP 0200
BMX DRC 0805 (H)	BMX XBP 0400 (H)
BMX AMM 0600 (H)	BMX XBP 0600 (H)
BMX AMO 0802 (H)	BMX XBP 0800 (H)
BMX ART 0814 (H)	BMX XBP 1200 (H)
BME AHI 0812 (H)	( )
BME AHO 0412 (C)	
BME NOC 0301 (C)	
BME NOC 0311 (C)	

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BME NOC 0321 (C)	
BMX NOM 0200 (H)	
BMX NGD 0100	
BME NOS 0300 (C)	
BME CXM 0100 (H)	
BMX EIA 0100	
BMX NOR 0200 (H)	
BMX NRP 0200 (C)	
BMX NRP 0201 (C)	
BMX EAE 0300 (H)	
BMX ERT 1604 T	
BMX ERT 1604 H	
BME XBP 0400 (H)	
BME XBP 0800 (H)	
BME XBP 1200 (H)	
BME XBP 0602 (H)	
BME XBP 1002 (H)	
490 NAC 0100	
490 NAC 0201	
BMX XBE 2005	
BME NOP 0300 (C)	
BME D58 1020 (C)	
BMX DDI 3232 (H)	
BMX DDI 3203 (H)	
BMX DAI 1614 (H)	
BMX DAI 1615 (H)	
BMX DAI 16142	
BMX DAO 1615 (H)	
BMX DRC 0815 (H)	
BME NOR 2200 H	
BMX NUA 0100 (H)	