



Lloyd's
Register

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Schneider Electric 8ème Rue-ZI Carros F-06516 Carros Cedex France
PLACE OF PRODUCTION	Schneider Electric Manufacturing Carros ZI Carros 8ème Rue - ZI Carros F-06516 Carros Cedex France PT Schneider Electric Manufacturing Batam Batamindo Industrial Park block 4 Muka Kuning- Batam Island Indonesia
DESCRIPTION	Programmable Logic Controller, Automation Platform
TYPE	Modicon M340 - M580-x80
APPLICATION	Marine and Offshore applications for Environmental category ENV 3 as defined in Lloyd's Register Type Approval Scheme, Test Specification number 1, 2015
STANDARD	IEC 61131-2 / IACS E10 Rules and Regulations of Ships 2018
Certificate No.	18/30010
Issue Date	21 January 2019
Expiry Date	22 May 2023
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Type approval department
Lloyd's Register EMEA

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LIMITATION

Alarms and safeties are not to be combined in same PLC.
For safety related software SCA Software conformity assessment needs to be complied with.

REMARKS

-Any application software is not included in this certificate and should be submitted for review against The Rules and regulations.
-Components to be placed in EMC cabinet to comply with limits 156-165 MHz.

RATINGS

Voltage: 24Vdc, 230V ac and 100V ac @ 50/60 Hz

Modicon M340, M580 consists of the following components:

(H) = harsh environment

Processors

BMX P34 1000	Processor, 1 channel Modbus
BMX P34 1000 H	Processor, 1 channel Modbus
BMX P34 2000	Processor, 2 channel Modbus
BMX P34 2010	Processor, Modbus CANopen
BMX P34 20102	Processor, Modbus CANopen and Ethernet
BMX P34 20102 CL	Processor, Modbus CANopen and Ethernet
BMX P34 2020	Processor, Modbus Ethernet
BMX P34 2020 H	Processor, Modbus Ethernet
BMX P34 2030	Processor, Ethernet CANopen
BMX P34 20302	Processor, Ethernet CANopen
BMX P34 20302 H	Processor, Ethernet CANopen
BMX P34 20302 CL	Processor, Ethernet CANopen
BMX PRA 0100	Peripheral Remote IO Adaptor
BMX P34 20 ITRB	Processor, 2 channels dedicated to IT business
BME P58 6040	Control Processor Unit
BME P58 6040 C	Control Processor Unit
BME P58 5040	Control Processor Unit

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BME P58 5040 C	Control Processor Unit
BME P58 4040	Control Processor Unit
BME P58 4020	Control Processor Unit
BME P58 3040	Control Processor Unit
BME P58 3020	Control Processor Unit
BME P58 2040	Control Processor Unit
BME P58 2040 H	Control Processor Unit
BME P58 2020	Control Processor Unit
BME P58 2020 H	Control Processor Unit
BME P58 1020	Control Processor Unit
BME P58 1020 H	Control Processor Unit
BME H58 6040	Control Processor Unit Hot-Standby
BME H58 6040 C	Control Processor Unit Hot-Standby
BME H58 4040	Control Processor Unit Hot-Standby
BME H58 4040 K	Control Processor Unit Hot-Standby
BME H58 4040 C	Control Processor Unit Hot-Standby
BME H58 2040	Control Processor Unit Hot-Standby
BME H58 2040 K	Control Processor Unit Hot-Standby
BME H58 2040 C	Control Processor Unit Hot-Standby
Power Supply	
BMX CPS 2000	Power Supply, standard AC
BMX CPS 2010	Power Supply, standard isolated DC
BMX CPS 3020	Power Supply, high power isolated 24VDC to 48VDC
BMX CPS 3020 H	Power Supply, high power isolated 24VDC to 48VDC
BMX CPS 3500	Power Supply, high power AC
BMX CPS 3500 H	Power Supply, high power AC
BMX CPS 3540 T	Power Supply, high power AC
BMX CPS 4002	Power Supply, redundant, high power AC
BMX CPS 4002 H	Power Supply, redundant, high power AC
BMX CPS 4022	Redundant HP 24-48 VDC Power Supply
BMX CPS 4022 H	Redundant HP 24-48 VDC Power Supply
BMX CPS 3522	Redundant HP 125 VDC Power Supply

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BMX CPS 3522 H	Redundant HP 125 VDC Power Supply
Digital I / O	
BMX DAI 0814	Digital input module, 08I, 100...120 Vac
BMX DAI 0805	Digital input module, 08I, 220 Vac
BMX DAI 1602	Digital input module, 16I 24VAC/24VDC source
BMX DAI 1602 H	Digital input module, 16I 24VAC/24VDC source
BMX DAI 1603	Digital input module, 16I 48VAC
BMX DAI 1603 H	Digital input module, 16I 48VAC
BMX DAI 1604	Digital input module, 16I, 100VAC to 120VAC
BMX DAI 1604 H	Digital input module, 16I, 100VAC to 120VAC
BMX DAO 1605	Digital output module, 16Q triacs
BMX DAO 1605 H	Digital output module, 16Q triacs
BMX DDI 1602	Digital input module, 16I 24VDC sink
BMX DDI 1602 H	Digital input module, 16I 24VDC sink
BMX DDI 1603	Digital input module, 16I 48VDC sink
BMX DDI 1603 H	Digital input module, 16I 48VDC sink
BMX DDI 1604 T	Digital input module, 16I 125 V DC sink
BMX DDI 3202 K	Digital input module, 32I 24VDC sink
BMX DDI 3202 KH	Digital input module, 32I 24VDC sink
BMX DDI 6402 K	Digital input module, 64I 24VDC sink
BMX DDI 6402 KH	Digital input module, 64I 24VDC sink
BMX DDM 16022	Digital mixed I/O module, 8I 24VDC 8Q transistors source
BMX DDM 16022 H	Digital mixed I/O module, 8I 24VDC 8Q transistors source
BMX DDM 16025	Digital mixed I/O module, 8I 24VDC 8Q relays
BMX DDM 16025 H	Digital mixed I/O module, 8I 24VDC 8Q relays
BMX DDM 3202 K	Digital mixed I/O module, 16I 24VDC 16Q transistors source
BMX DDO 1602	Digital output module, 16Q transistors source 0.5A
BMX DDO 1602 H	Digital output module, 16Q transistors source 0.5A
BMX DDO 1612	Digital output module, 16Q sink transistors
BMX DDO 1612 H	Digital output module, 16Q sink transistors
BMX DDO 3202 K	Digital output module, 32Q transistors source 0.1A
BMX DDO 3202 KC	Digital output module, 32Q transistors source 0.1A

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BMX DDO 6402 K	Digital output module, 64Q transistors source 0.1A
BMX DDO 6402 KC	Digital output module, 64Q transistors source 0.1A
BMX DRA 0805	Digital relay output module, 8Q isolated relays
BMX DRA 0805 H	Digital relay output module, 8Q isolated relays
BMX DRA 1605	Digital relay output module, 16Q relays
BMX DRA 1605 H	Digital relay output module, 16Q relays
BMX DRA 0804 T	Digital relay output module, 8Q isolated relays
BMX DRA 0815	DIG 8Q 125VDC/250VAC ISOLATED RELAYS
BMX DRA 0815H	DIG 8Q 125VDC/250VAC ISOLATED RELAYS
Analog I / O	
BMX AMI 0410	Analog input module, 4 U/I In isolated high speed
BMX AMI 0410 H	Analog input module, 4 U/I In isolated high speed
BMX AMI 0800	Analog input module, 8 U/I In No Isolated Fast
BMX AMI 0810	Analog input module, 8 U/I In Isolated Fast
BMX AMI 0810 H	Analog input module, 8 U/I In Isolated Fast
BMX AMM 0600	Analog mixed I/O module, 4 In U/I, 2 Out U/I
BMX AMM 0600 H	Analog mixed I/O module, 4 In U/I, 2 Out U/I
BMX AMO 0210	Analog output module, 2 U/I isolated Out
BMX AMO 0210 H	Analog output module, 2 U/I isolated Out
BMX AMO 0410	Analog output module, 4 U/I Isolated out
BMX AMO 0410 H	Analog output module, 4 U/I Isolated out
BMX AMO 0802	Analog output module, 8 Current No Isolated out
BMX ART 0414	Analog input module, 4 TC/RTD isolated Inputs
BMX ART 0414 H	Analog input module, 4 TC/RTD isolated Inputs
BMX ART 0814	Analog input module, 8 TC/RTD isolated Inputs
BMX ART 0814 H	Analog input module, 8 TC/RTD isolated Inputs
BME AHI 0812	Analog input module 8 current channels (HART)
BME AHI 0812 H	Analog input module 8 current channels (HART)
BME AHO 0412	Analog output module 8 current channels (HART)
BME AHO 0412 C	Analog output module 8 current channels (HART)
Communication device	
BMX NOE 0100	Communication module Ethernet 10/100 RJ45

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BMX NOE 0100 H	Communication module Ethernet 10/100 RJ45
BMX NOE 0110 M340	Factorycast module
BMX NOE 0110 H	M340 Factorycast module
BMX NOC 0401	Communication module Ethernet 10/100 RJ45
BMX NOC 0402	Communication module Ethernet 10/100 RJ45
BME NOC 0301	Full Communication Ethernet
BME NOC 0301 C	Full Communication Ethernet
BME NOC 0311	Full FactoryCast Ethernet
BME NOC 0311 C	Full FactoryCast Ethernet
BME NOC 0321	NOC Control
BME NOC 0321 C	NOC Control
BMX NOM 0200	2 serial link ports
BMX NOM 0200 H	2 serial link ports
BMX NGD 0100	Global Data module
BME NOS 0300	Ethernet embedded switch
BME NOS 0300 C	Ethernet embedded switch
BME NOP 0300	M580 IEC 61850 Communication Module
BME NOP 0300 C	M580 IEC 61850 Communication Module
BME CXM 0100	CANopen module
BME CXM 0100 H	CANopen module
BMX XBE 1000	Extension rack module
BMX XBE 1000 H	Extension rack module
BMX EIA 0100	AS-interface module
BMX NOR 0200	RTU communication module
BMX NOR 0200 H	RTU communication module
BMX NRP 0200	Communication with optic fiber
BMX NRP 0200 C	Communication with optic fiber
BMX NRP 0201	Communication with optic fiber
BMX NRP 0201 C	Communication with optic fiber
BMX CRA 31200	Communication module IO adapter
BMX CRA 31210	Communication module IO adapter
BMX CRA 31210 C	Communication module IO adapter

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BME CRA 31210	Communication module remote IO adapter
BME CRA 31210 C	Communication module remote IO adapter
Counting & Positioning	
BMX EHC 0200	Counting module, high speed 2Ch
BMX EHC 0200 H	Counting module, high speed 2Ch
BMX EHC 0800	Counting module, high speed 8Ch
BMX EHC 0800 H	Counting module, high speed 8Ch
BMX ETM 0200	Frequency module
BMX ETM 0200 H	Frequency module
BMX MSP 0200	Positioning module (Pulse Output Train)
BMX EAE 0300	SSI encoder interface
BMX EAE 0300 H	SSI encoder interface
BMX ERT 1604 T	Time stamping
Backplanes	
BMX XBP 0400	Backplane, 4 slots
BMX XBP 0400 H	Backplane, 4 slots
BMX XBP 0600	Backplane, 6 slots
BMX XBP 0600 H	Backplane, 6 slots
BMX XBP 0800	Backplane, 8 slots
BMX XBP 0800 H	Backplane, 8 slots
BMX XBP 1200	Backplane, 12 slots
BMX XBP 1200 H	Backplane, 12 slots
BME XBP 0400	Backplane Ethernet, 4 slots
BME XBP 0400 H	Backplane Ethernet, 4 slots
BME XBP 0800	Backplane Ethernet, 8 slots
BME XBP 0800 H	Backplane Ethernet, 8 slots
BME XBP 1200	Backplane Ethernet, 12 slots
BME XBP 1200 H	Backplane Ethernet, 12 slots
BME XBP 0602	Backplane, 6 slots, dual power supplies
BME XBP 0602 H	Backplane, 6 slots, dual power supplies
BME XBP 1002	Backplane, 10 slots, dual power supplies
BME XBP 1002 H	Backplane, 10 slots, dual power supplies

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Accessories

ABE7 CPA xxx

BMX FC...

BMX FT...

BMX FTB 2000

BMX FTB 2010

BMX FTB 2020

BMX FTB 2820

BMX RMS 008MP

BMX RMS 008MPF

BMX RMS 128MPF

BMX RMS 004GPF

BMX RWS B000M

BMX RWS C016M

BMX RWS FC032M

BMX XBC xxxK

BMX XCA USB Hxx

BMX XEM 010

BMX XSP xx00

BMX XTS CPSxx

BMX XTS HSC20

TCS CCN...

TCS MCN 3M4...

490 NAC 0100

490 NAC 0201

PACK & KIT

BMX XBE 2005

Safety

BMEP584040S

BMEP58CPROS3

BMXCPS4002S

BMXSAI0410

Wiring block for analog inputs

Associated Cables

Associated Cables

Terminal block kit, screw 20 std. points

Terminal block kit, screw 20 cir. points

Terminal block kit, spring 20 points

Terminal block kit, spring 28 points

Memory card 8Mo

Memory card 8Mo / 8Mo Files

Memory card 8Mb / 128Mo files

4Go Memory card for M580 CPU

Memory card NOE Web B

Memory card NOE Web C 16Mo

Memory Card 16Mo

BusX Cord (xxx = length)

USB cable (x = length)

Protective cover

Shield bar kit , xx slots

Connector kit

Connector kit

Associated Cables

Modbus communication cables

HSBY socket

HSBY socket

Extension Rack KIT (2 BMX XBE 1000 ; Cable BMX XBC 008K ; TSX TLY EX)

Safety processor

Safety coprocessor

Safety power supply 100...240 Vac

Safety analogic inputs, 4 ch 4-20mA

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BMXSDI1602	Safety digital inputs, 16 ch 24 Vdc
BMXSDO0802	Safety digital outputs, 8 ch 0,5 A, 24 Vdc
BMXSRA0405	Safety digital outputs, 4 ch, 5 A, 24Vdc/230Vac

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. W05111662 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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