



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No.TA19227M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Manufacturer:	Schneider Electric
Place of Manufacturing:	ZI Carros 8ème Rue F06516 CARROS Cedex, FRANCE JL. Beringin Lot 208, Bip Mukakuning Kel.Muka Kuning Kec.Sungai Beduk – Batam, INDONESIA
Product description:	Programmable Logic Control Units
Model:	Modicon M340 - M580 - X80

Approval No.:	19A008
Valid until:	17 February 2024

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 18 February 2019.

T. Shimada
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

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Attached sheet - 1/8 to the Certificate No.TA19227M

Specification & documents:

1. Particulars: Power supply: 24VDC, 48VDC, 125VDC, 120VAC, 230VAC

2. Components and reference drawings:

Processors	Description
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
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

- To be continued -

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Attached sheet - 2/8 to the Certificate No.TA19227M

Processors	Description
BME H58 4040 K	Kit 2x BMEH584040 + 2x 490NAC0100
BME H58 4040 C	Control Processor Unit Hot-Standby
BME H58 2040	Control Processor Unit Hot-Standby
BME H58 2040 K	Kit 2x BMEH582040 + 2x 490NAC0100
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
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 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

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Attached sheet - 3/8 to the Certificate No.TA19227M

Digital I / O	Description
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
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
BMXDAI1614	DIG 16X1 SUPERVISED IN 100 TO 120 VAC
BMXDAI1614H	H DIG 16X1 SUPERVISED IN 100 TO 120 VAC
BMXDAI1615	DIG 16X1 SUPERVISED IN 200 TO 240 VAC
BMXDAI1615H	H DIG 16X1 SUPERVISED IN 200 TO 240 VAC
BMXDAO1615	DIG 16X1 TRIAC OUT 24 TO 240 VAC
BMXDAO1615H	H DIG 16X1 TRIAC OUT 24 TO 240 VAC
BMXDRA0815	DIG 8Q 125VDC/250VAC ISOLATED RELAYS
BMXDRA0815H	H DIG 8Q 125VDC/250VAC ISOLATED RELAYS
BMXDRC0805	DIG 8NO/NC 125VDC/250VAC ISOLATED RELAYS
BMXDRC0805H	H DIG 8NO/NC 125VDC/250VAC ISOLATED RELAYS

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Attached sheet - 4/8 to the Certificate No.TA19227M

Analog I / O	Description
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 AMO 0802 H	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 4 current channels (HART)
BME AHO 0412 C	Analog output module 4 current channels (HART)
Communication device	
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

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Attached sheet - 5/8 to the Certificate No.TA19227M

Communication device	Description
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
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
BMX ERT 1604 H	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

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Attached sheet - 6/8 to the Certificate No.TA19227M

Backplanes	Description
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
Accessories	
ABE7 CPA xxx	Wiring block for analog inputs
BMX FC...	Associated Cables
BMX FT...	Associated Cables
BMX FTB 2000	Terminal block kit, screw 20 std. points
BMX FTB 2010	Terminal block kit, screw 20 cir. points
BMX FTB 2020	Terminal block kit, spring 20 points
BMX FTB 2820	Terminal block kit, spring 28 points
BMX RMS 008MP	Memory card 8Mo
BMX RMS 008MPF	Memory card 8Mo / 8Mo Files
BMX RMS 128MPF	Memory card 8Mb / 128Mo files
BMX RMS 004GPF	4Go Memory card for M580 CPU
BMX RWS B000M	Memory card NOE Web B
BMX RWS C016M	Memory card NOE Web C 16Mo
BMX RWS FC032M	Memory Card 16Mo
BMX XBC xxxK	BusX Cord (xxx = length)
BMX XCA USB Hxx	USB cable (x = length)
BMX XEM 010	Protective cover
BMX XSP xx00	Shield bar kit , xx slots
BMX XTS CPSxx	Connector kit
BMX XTS HSC20	Connector kit
TCS CCN...	Associated Cables
TCS MCN 3M4...	Modbus communication cables
490 NAC 0100	HSBY socket
490 NAC 0201	HSBY socket
BMXFTB4000	CAGED TERMINAL STRIP 40 POINTS
BMXFTB4020	SPRING TERMINAL STRIP 40 POINTS
BMXFTW305	FTB 40 WIRE 3M CABLE
BMXFTW505	FTB 40 WIRE 5M CABLE

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Attached sheet - 7/8 to the Certificate No.TA19227M

PACK & KIT	Description
BMX XBE 2005	Extension Rack KIT (2 BMX XBE 1000 ; Cable BMX XBC 008K ; TSX TLY EX)
Safety	
BME P58 4040S	Safety processor
BME P58 2040S	Safety processor
BME P58 CPROS3	Safety coprocessor
BMX CPS 4002S	Safety power supply 100...240 Vac
BMX CPS 3522S	Redundant HP 125 VDC Power Supply
BMX CPS 4022S	Redundant HP 24-48 VDC Power Supply
BMX SAI 0410	Safety analogic inputs, 4 ch 4-20mA
BMX SDI 1602	Safety digital inputs, 16 ch 24 Vdc
BMX SDO 0802	Safety digital outputs, 8 ch 0,5 A, 24 Vdc
BMX SRA 0405	Safety digital outputs, 4 ch, 5 A, 24Vdc/230Vac
BME H58 4040S	Control Processor Unit Hot-Standby
BME H58 2040S	Control Processor Unit Hot-Standby
BME H58 6040S	Control Processor Unit Hot-Standby

3. Documentation and Test Reports:

Catalogue: Modicon M340 automation platform September 2014
 Modicon M580 automation platform July 2018
 Modicon X80 I/O platform April 2018

Test report: 1806S07V, 1708S01C, 1708S11V, 1708S12V, 1708S13V, 1803S02V,
 1803S03V, 1803S04V, 1806S01C, 1806S02V, 1806S05V, 1806S06V,
 1701S10E, 1701S11V, 1503S01C, 1503S02C, 1503S03V-01, 1503S04V-01,
 1503S06V, 1503S08V, 1503S10V, 1503S11V-01, 1504S01C, 1504S03C,
 1504S06V, 1504S07V, 1504S10V, 1504S11V, 1504S12V-01, 1504S13V,
 1504S14V, 1504S15V, 1504S17V, 1504S18V, 1504S20E, 1701S02C,
 1701S04V, 1701S05V, 1701S06V, 1701S08V, 201508022_001,
 201508084_001, 201600743_001, R1509286C6-E-C, 1603S01C, 1603S02C,
 1603S03V, 1603S04V, 1603S08E, 1603S09V, 1603S10V, 1603S11V,
 1603S12V, 1603S13E, 1603S14V, 1603S16V, 1806S01C, 1806S01V,
 1806S02V, 1806S03V, 1806S04V, 1806S05V, 1806S07V, 1806S10E,
 201705296_001, 201705298_001, 201803215_001, R1702071C2-E-C,
 R1702071C5-E-C, R1702071C8-E-C, R1702071C11-E-C, R1702071C14-E-C,
 R1702071C17-E-C, R1803137C3-E-C, R1803137C6-E-C, R1803137C9-E-C

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Attached sheet - 8/8 to the Certificate No.TA19227M

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g × 1.5 hours)		X
Inclination test		X
Cold test (Temperature -25°C × 16 hours)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		--
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

- (1) The product is not allowed to be installed in on open decks.
- (2) An enclosure is required to meet radiated emission requirements. The product meets Bridge requirements when installed in a suitable enclosure.

- The End -