



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA16420M

This is to certify that the undernoted products 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:	Mitsubishi Electric Corporation Nagoya Works
Place of Manufacturing:	5-1-14, Yada-Minami, Higashi-ku, Nagoya-shi, Aichi-pref., 461-8670, Japan
Product description:	Programmable Controller
Model:	FX3G Series

Approval No.:	11A013
Valid until:	23 June 2021

This certificate is subject to the conditions specified in the attached sheets.

Issued at Tokyo on 24 June 2016.


Y. Shibata
General Manager
Machinery Department



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

Specification & documents:**1. Particulars**

Unit	Model	Input Points	Output Points	Power Supply Voltage	Input Signal	Output Type	
Base Unit	FX3G-14MR/ES	8	6	100V AC to 240V AC 50/60 HZ	24V DC Sink/Source Configurable	Relay Output	
	FX3G-24MR/ES	14	10				
	FX3G-40MR/ES	24	16				
	FX3G-60MR/ES	36	24				
	FX3G-14MR/ES-A	8	6			Transistor Output (Sink type)	
	FX3G-24MR/ES-A	14	10				
	FX3G-40MR/ES-A	24	16				
	FX3G-60MR/ES-A	36	24				
	FX3G-14MT/ES	8	6			Transistor Output (Source type)	
	FX3G-24MT/ES	14	10				
	FX3G-40MT/ES	24	16				
	FX3G-60MT/ES	36	24				
	FX3G-14MT/ES-A	8	6			24V DC	Relay Output
	FX3G-24MT/ES-A	14	10				
	FX3G-40MT/ES-A	24	16				
	FX3G-60MT/ES-A	36	24				
	FX3G-14MT/ESS	8	6	Transistor Output (Sink type)			
	FX3G-24MT/ESS	14	10				
	FX3G-40MT/ESS	24	16				
	FX3G-60MT/ESS	36	24				
	FX3G-14MR/DS	8	6	Transistor Output (Source type)			
	FX3G-24MR/DS	14	10				
	FX3G-40MR/DS	24	16				
	FX3G-60MR/DS	36	24				
FX3G-14MT/DS	8	6	From Base Unit	-	-		
FX3G-24MT/DS	14	10					
FX3G-40MT/DS	24	16					
FX3G-60MT/DS	36	24					
FX3G-14MT/DSS	8	6	From Base Unit	Analog	-		
FX3G-24MT/DSS	14	10					
FX3G-40MT/DSS	24	16					
FX3G-60MT/DSS	36	24					
Expansion Board	FX3G-232-BD	-	-	From Base Unit	-	-	
	FX3G-485-BD	-	-		-	-	
	FX3G-422-BD	-	-		-	-	
	FX3G-2AD-BD	2(Analog)	-		Analog	-	
	FX3G-1DA-BD	-	1(Analog)		-	Analog	
	FX3G-8AV-BD	-	-		Analog	-	
Memory Cassette	FX3G-EEPROM -32L	-	-		-	-	-
Display Module	FX3G-5DM	-	-		-	-	-
Special Adapters connector conversion adapter	FX3G-CNV-ADP	-	-		-	-	-

- To be continued -

2. Components and reference drawings

JY006B27071A, JY335C62272A, JY328B50400E, JY573D02771D, JY573D02871P, JY572D92671E, JY335C62571B, JY328B51600C, JY572D93371B, JY572D93471C, JY572D93771A, JY335C63371B, JY328C52200B, JY572D95471B, JY572D95571D, JY006B27171A, JY572D92471E, JY572D92571Q, JY335C62671B, JY328B55700C, JY572D95171B, JY572D95071C, JY006B27271A, JY335C62371A, JY328B51400E, JY572D92771E, JY572D92871R, JY335C62771B, JY328B51700B, JY572D93871B, JY572D93971C, JY335C63471B, JY328C52300B, JY572D95671B, JY572D95771D, JY006B27371A, JY335C62471A, JY328B51500D, JY572D93071E, JY572D93171Q, JY335C62871B, JY328B51800B, JY572D94071B, JY572D94171C, JY006B27471A, JY006B27571A, JY006B27671A, JY006B27771A, JY006B26271A, JY335C62971B, JY328B51900C, JY572D94271C, JY572D94371C, JY006B26371A, JY335C63071B, JY328B50800D, JY572D94471E, JY572D94571D, JY006B26471A, JY335C63171B, JY328B52000C, JY572D94671C, JY572D94771D, JY006B26571A, JY335C63271B, JY328B52100B, JY572D94871C, JY572D94971C, JY006B26671A, JY006B26771A, JY006B26871A, JY006B26971A, JY006B27871A, JY573D12871C, JY006B27971A, JY573D12971C, JY006B28071A, JY573D13071C, JY006B28171A, JY573D13171C, JY006B28671A, JY335C70571B, JY328C56600B, JY573D17371B, JY573D17471B, JY006B28771A, JY006B28871A, JY335C70671B, JY328C56700B, JY573D17571A, JY573D17671B, JY006B28971A, JY006B28271A, JY006B28371A, JY006B28471A, JY006B28571A, JY006B29071A, JY006B29171A, JY006B29271A, JY006B29371A, JY006D34271A, JY335C64071A, JY328C52800C, JY572D99471C, JY572D99571B, JY572D99671A, JY006D34171A, JY335C64171A, JY328C52900B, JY572D99771B, JY572D99871B, JY572D99971B, JY006D34071A, JY335C64271A, JY328C53000B, JY573D00271B, JY573D00371A, JY006D34671A, JY335C66471A, JY328C53100B, JY573D04171D, JY573D04271C, JY006D34771A, JY335C66571A, JY328C53200B, JY573D04371D, JY573D04471C, JY006D34871A, JY335C66671A, JY328C53300A, JY573D04571B, JY573D04671B, JY573D04771A, JY006D34471A, JY335C64371A, JY328C53400B, JY573D00471B, JY573D00571B, JY006D34571A, JY335C66971A, JY328C55000B, JY573D05971B, JY573D05871A, JY006C34371A, JY335C64471A, JY328C53500B, JY573D00671C, JY573D00771B, JY335C64571A, JY328C53600B, JY573D00971B, JY573D01071B

NSH-10064-TR, 31DE0267-HO-R1, 31DE0268-HO-R1, 31HE0328-HO, FLI 12-11-055

Document for software quality control

BZ-5643 (Dry Heat Test Report on 27 July 2016)

- To be continued -

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		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration $\pm 0.7g \times 1.5$ hours)		X
Inclination test		--
Cold test (Temperature 0°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		X
Conducted emission test		X
Flame retardant test		--

2. Approval conditions:

- (1) The products are to be placed in the metal cabinet.
- (2) The suitable protection should be provided, where installed on open decks.
- (3) The line filter MXB-1210-33 or equivalent for AC power line and the line filter MB1206 or equivalent for DC power line should be fitted, where installed in the bridge.

- The End -