Type Approval Certificate



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

Certificate No.

13 827 - 99 HH

Company

Mitsubishi Electric Corporation

Himeji Works 840 Chiyoda-Machi Himeji, Hyogo, 670 Japan

Product Description

Programmable Logic Controller

Type

MELSEC FX2N - Series

Environmental Category

C, EMC1

Technical Data /

Power supply

: 100 - 240VAC or 24VDC

Range of Application

Base Units

: FX2N-16MR to 128MR and FX2N-16MT to 128MT

with 16, 32, 48, 64, 80 and 128 parity inputs and outputs

Extension Units: FX2N-32ER and 48ER, FX2N-32ET and ET48, FX2N-16

marked with X = input only, Y = output only

Analogue, Pulse and Interface Units:

FX2N-4AD, -4AD-PT, -4AD-TC, -4DA, -1HC, -1PG-E, -232IF

FX2N-5A, FX2N-8AD

Code for all:

M = Base Unit E = Extension Unit

R = Relay

T = Transistor

ES/DS or ESS/DSS types are provided for external source

for outputs

* Documentation relating to the particular application software to be

submitted for separate approval

Test Standard

Guidelines for the Performance of Type Approvals, Chapter 2 - Edition 2003

Documents

Test Report: Witness Test Report BZ-5391 of 03.24.1998 and BZ-5395 of 06.18.1998, Test Reports TAD979162 of 9.19.97, TAD97X261 of 11.13.97, MEE 240318 of 06.09.04

Catalogue 8544-A/ 04.98, Hardware Manual JY992D66301C MEE 03.1998

Software Manual JY992D66501A MEE 09.1997

Remarks

The application program to be installed in EEPROM for program start in case of

battery failure

Valid until

2009-11-27

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Type Approval Symbol



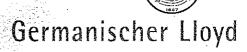
File No. I.B.07

Hamburg, 2004-12-01

Germanischer Lloyd

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".

Type Approval Certificate Germanischer Lloyd



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Certificate No.

24 205 - 04 HH

Company

Mitsubishi Electric Corporation

Himeji Works

840 Chiyoda-Machi

Himeji, Hyogo, 670 Japan

Product Description

Programmable Logic Controller

Type

FX1S / FX1N Series

Environmental Category

Technical Data /

C, EMC1, EMC2

Range of Application

Power supply: 100 -240V AC* or 24V DC

Base units FX1S:

-10MR-DS; -10MR-ES; -10MT-DSS; -10MT-ESS/UL -14MR-DS; -14MR-ES; -14MT-DSS; -14MT-ESS/UL -20MR-DS; -20MR-ES; -20MT-DSS; -20MT-ESS/UL -30MR-DS; -30MR-ES; -30MT-DSS; -30MT-ESS/UL

Base units FX1N:

-14MR-DS; -14MR-ES/UL; -14MT-DSS; -14MT-ESS/UL -24MR-DS; -24MR-ES/UL; -24MT-DSS; -24MT-ESS/UL -40MR-DS; -40MR-ES/UL; -40MT-DSS; -40MT-ESS/UL -60MR-DS; -60MR-ES/UL; -60MT-DSS; -60MT-ESS/UL MT: transistor output MR; relay output DS: DS(S): DC power supply ES(S)/UL*: AC power supply

*Env. Category 'EMC2' for types ES(S)/UL without RFI filter

*Env. Category 'EMC1' for types ES(S)/UL with RFI filter RASMI FFR-S520S-14A-RF1

see page 2 for continuation

Test Standard

Guidelines for the Performance of Type Tests Part 1, Edition 2003

Documents

Test Reports: LR No. BZ-5486; Tokin No. S2B00Z281, Tokin No. S1A003172, Tokin No. S1R008192, SENTON No. 51316-30682-B, ME No. 240430 (a...f)

Evaluation/Test on Reliability of Products;

Technical Drawings; Data Sheets; Software Documentation

Remarks

Respective application software is subject to supplementary approval

Valid until

2009-11-30

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Type Approval Symbol





File No.

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Certificate No.

24 205 - 04 HH

Extension units (expansion boards) for FX1S/FX1N:

FX1N-8AV-BD **Analogue Potentiometer** FX1N-4EX-BD Digital Input Board, 4 channels FX1N-2EYT-BD Digital Output Board, 2 channels FX1N-2AD-BD Analogue Input Board, 2 channels FX1N-1DA-BD Analogue Output Board, 1 channel **RS-232C Communication Board** FX1N-232-BD FX1N-422-BD **RS-422 Communication Board** FX1N-485-BD **RS-485 Communication Board** FX1N-5DM **Display Module**

For other connectable extension units see Certificate No. 13 827-99 HH

Software requirement class: 3 Software (Firmware) version: 2.10

Valid until

2009-11-30

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1.B.07

Hamburg, 2004-12-01

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