



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.

Manufacturer	Schneider Electric Automation GmbH
Address	Schneiderplatz 1, Marktheidenfeld, 97828, Germany
Place of Production	IDEC IZUMI TAIWAN CORPORATION No.87, Shuiguan Rd., Renwu Dist., Kaohsiung City, 81465, Taiwan
Place of Production	SHINKO TECHNOS CO., LTD. SANDA FACTORY 501-19 Fukushima, Sanda, Hyogo, 669-1313, Japan
Place of Production	Wuxi Pro-face Co.,Ltd. No.20, Hanjiang Road, Wuxi New District, Wuxi, Jiangsu, 214028, China
Place of Production	Wuxi Pro-face Co.,Ltd. No.516, Xida Road, Wuxi City, Jiangsu Province, China
Type	Control Units
Description	Programmable Controller
Trade Name	TM221 Series and TM3 Series (See Appendix for details)
Application	Marine and offshore applications for use in environmental categories ENV2 & ENV3 in the "General Power Distribution Zones" as defined in LR Type Approval System Test Specification No. 1-2024 where the Test Specification is

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A member of the Lloyd's Register group

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satisfactory for the intended operation.

Ratings

Power Supply : 24 VDC, 100-240VAC 50/60Hz

Other Conditions

- Identical with FC6A Series Programmable Controller in LR Type Approval Certificate No. LR25176318TA (Ref. No.15/10025(E8)) issued to IDEC Corporation.
- Refer to the comparison List & Cross reference list between FC6A series and TM221 & TM3 series.
- The certificate attests to the hardware's suitability for the environmental categories stated.
- Suitability of the software and system configuration is subject to a separate plan appraisal according to the Lloyd's Register Rules and Regulations when placed on Lloyd's Register classed vessels.

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 Group Limited of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2112054TA-02

The Design Appraisal Document LR25176376TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Appendix

Trade Name

TM221 Series and TM3 Series

Comprising:-

CPU Modules

TM221M16R, TM221M16RG,	: DC Power Supply, 8-DC Input, 8-Relay Output
TM221ME16R, TM221ME16RG	
TM221M16T, TM221M16TG,	: DC Power Supply, 8-DC Input, 8-Transistor Source Output
TM221ME16T, TM221ME16TG	
TM221M32TK, TM221ME32TK	: DC Power Supply, 16-DC Input, 16-Transistor Source Output
TM221C16R, TM221CE16R	: AC Power Supply, 9-DC Input, 7-Relay Output
TM221C16T, TM221CE16T	: DC Power Supply, 9-DC Input, 7-Transistor Source Output
TM221C24R, TM221CE24R	: AC Power Supply, 14-DC Input, 10-Relay Output
TM221C24T, TM221CE24T	: DC Power Supply, 14-DC Input, 10-Transistor Source Output
TM221C40R, TM221CE40R	: AC Power Supply, 24-DC Input, 16-Relay Output
TM221C40T, TM221CE40T	: DC Power Supply, 24-DC Input, 16-Transistor Source Output
TM221C16U, TM221CE16U	: DC Power Supply, 9-DC Input, 7-Transistor Sink Output
TM221C24U, TM221CE24U	: DC Power Supply, 14-DC Input, 10-Transistor Sink Output
TM221C40U, TM221CE40U	: DC Power Supply, 24-DC Input, 16-Transistor Sink Output

Input Modules

TM3DI8, TM3DI8G	: DC Power Supply (Internal), 8-DC Input
TM3DI16, TM3DI16G, TM3DI16K	: DC Power Supply (Internal), 16-DC Input
TM3DI32K	: DC Power Supply (Internal), 32-DC Input
TM3DI8A, TM3DI8AG	: DC Power Supply (Internal), 8-AC Input

Output Modules

TM3DQ8R, TM3DQ8RG	: DC Power Supply (internal), 8-Relay Output
TM3DQ16R, TM3DQ16RG	: DC Power Supply (internal), 16-Relay Output
TM3DQ8T, TM3DQ8TG	: DC Power Supply (internal), 8-Transistor Source Output
TM3DQ16T, TM3DQ16TG, TM3DQ16TK	: DC Power Supply (internal), 16-Transistor Source Output
TM3DQ32TK	: DC Power Supply (internal), 32-Transistor Source Output
TM3DQ8U, TM3DQ8UG	: DC Power Supply (internal), 8-Transistor Sink Output
TM3DQ16U, TM3DQ16UG, TM3DQ16UK	: DC Power Supply (internal), 16-Transistor Sink Output
TM3DQ32UK	: DC Power Supply (internal), 32-Transistor Sink Output

I/O Mixture Modules

TM3DM8R, TM3DM8RG	: DC Power Supply (internal), 4-DC Input, 4-Relay Output
TM3DM24R, TM3DM24RG	: DC Power Supply (internal), 16-DC Input, 8-Relay Output
TM3XTYS4	: DC Power Supply (internal), 12-DC Input, 8-Transistor Source Output

Analog Modules

TM3AI2H, TM3AI2HG	: 2-Analog Input
TM3AI4, TM3AI4G	: 4-Analog Input
TM3AI8, TM3AI8G	: 8-Analog Input
TM3AQ2, TM3AQ2G	: 2-Analog Output
TM3AQ4, TM3AQ4G	: 4-Analog Output
TM3AM6, TM3AM6G	: 4-Analog Input, 2-Analog Output
TM3TM3, TM3TM3G	: 2-Analog Input, 1-Analog Output
TM3TI4, TM3TI4G	: 4-Analog Input
TM3TI4D, TM3TI4DG	: 4-Analog Input
TM3TI8T, TM3TI8TG	: 8-Analog Input
TM3XPID2	: 2-Analog Input, 2-Analog Output or 2-Transistor Output

Option Modules

TMC2AI2, TMC2HOIS01, TMC2PACK01	: 2-Analog Input
TMC2AQ2V	: 2-Analog Output
TMC2AQ2C	: 2-Analog Output
TMC2TI2	: 2-Analog Input
TMC2SL1	: 2-Serial Communications (RS232C/RS485)
TMC2CONV01	: 2-Serial Communications (RS232C/RS485)

-End of Appendix-