

Type Approval Certificate Extension

This is to certify that Certificate No. 04/10035(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER

Schneider Electric Automation GmbH

Schneider Platz 1 97828 Marktheidenfeld

Germany

PLACE OF PRODUCTION

IDEC CORPORATION

Tsukuba Plant

1-9 Koyodai, Ryugasaki-Shi, Ibaragi-Ken 301-0852, Japan

IDEC IZUMI TAIWAN CORPORATION No. 87 Swi Kuan Road, Chu Hou Village Jen Wu Country, Kaohsiung Hsien 814 Taiwan

DESCRIPTION

Programmable Logic Controller

TYPES

TWD and TM2 Series

CPU Module All-In-One Type:

TWDLCAA10DRF
TWDLCAA16DRF
TWDLCAA24DRF
TWDLCDA10DRF
TWDLCDA16DRF
TWDLCDA24DRF

AC Type, 6-point Input, 7-point Relay Output
DC Type, 6-point Input, 7-point Relay Output
DC Type, 9-point Input, 7-point Relay Output
DC Type, 14-point Input, 10-point Relay Output

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11 May 2019

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Lloyd's Register EMEA

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Hamburg Technical Support Office Lloyd's Register EMEA

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TYPES (Continued) CPU Module Slim Type:

TWDLMDA20DRT1 DC Type, 12-point Input, 2-point Transistor

Sink Output, 6-point Relay Output
TWDLMDA20DRT DC Type, 12-point Input, 2-point Transistor

Source Output, 6-point Relay Output
TWDLMDA20DUK

Source Output, 6-point Relay Output
DC Type, 12-point Input, 8-point Transistor

Sink Output

TWDLMDA20DTK DC Type, 24-point Input, 8-point Transistor

Source Output

TWDLMDA40DUK DC Type, 24-point Input, 16-point Transistor

Sink Output

TWDLMDA40DTK DC Type, 24-point Input, 16-point Transistor

Source Output

Expansion Module:

TWDDDI8DT 8-point Input 8-point Input TM2DDI8DT TWDDDI16DT 16-point Input TM2DDI16DT 16-point Input TWDDDI16DK 16-point Input 16-point Input 32-point Input TM2DDI16DK TWDDDI32DK TM2DDI32DK 32-point Input TWDDRA8RT

TWDDRA8RT 8-point Relay Output
TM2DRA8RT 8-point Relay Output
TWDDRA16RT 16-point Relay Output
TM2DRA16RT 16-point Relay Output
TWDDMM8DRT 4-point Input, 4-point Relay Output

TM2DMM8DRT 4-point Input, 4-point Relay Output TWDDMM24DRF 16-point Input, 8-point Relay Output TM2DMM24DRF 16-point Input, 8-point Relay Output TWDDDO8UT 8-point Transistor Sink Output TM2DDO8UT 8-point Transistor Sink Output TWDDDO8TT 8-point Transistor Source Output 8-point Transistor Source Output TM2DDO8TT TWDDDO16UK 16-point Transistor Sink Output TM2DDO16UK 16-point Transistor Sink Output TWDDDO16TK 16-point Transistor Source Output TM2DDO16TK 16-point Transistor Source Output TWDDDO32UK 32-point Transistor Sink Output

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TYPES (Continued)

TM2DDO32UK TWDDDO32TK TM2DDO32TK 32-point Transistor Sink Output 32-point Transistor Source Output 32-point Transistor Source Output

Analog Module:

TWDALM3LT
TM2ALM3LT
TWDAMM3HT
TM2AMM3HT
TM2AMM3HT
TM2AMM3HT
TM2AMM3HT
TWDAMM2HT
TWDAMM2HT
TWDAMM2HT
TWDAMM2HT
TWDAMM2HT
TWDAMM2HT
TWDAMM2HT
TWDAMM2HT
2-point Analog Input, 1-point Analog Output
2-point Analog Input, 1-point Analog Output
TwdAMM2HT
2-point Analog Input

TWDAMI2HT 2-point Analog Input
TM2AMI2HT 2-point Analog Input
TWDAMO1HT 1-point Analog Output
TM2AMO1HT 1-point Analog Output

Communication Module:

TWDNOZ232D RS232C DIN Terminal Type TWDNOZ485D RS485 DIN Terminal Type TWDNOZ485T RS485 Terminal Block Type

Option Module:

TWDNAC232D RS485 with DIN Terminal Type
TWDNAC485D RS485 with DIN Terminal Type
TWDNAC485T RS232C with Terminal Block Type

TWDXCPRTC Clock

TWDXCPMFK32 Memory Cartridge TWDXCPMFK64 Memory Cartridge TWDXCPODC Small Display

TWDXCPODM Adapter for Small Display

APPLICATION Marine applications suitable for use in environmental categories ENV

1 and ENV2 in "General power Distribution Zones" as defined in LR's

Test Specification No. 1-2002.

STANDARD Manufacturer's standard

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RATINGS

CPU Module

Module	Power Supply	Input	Output	Auxiliary Output
TWDLCAA10 DRF	100-240 V ac, 50/60 Hz, 30 VA	24V dc, Input 0,1: 11 mA/pt Others: 7 mA/pt	240 V ac, 2 A (GEN/RES) 30 V dc, 2 A (GEN/RES)	24 V dc, 250 mA
TWDLCAA16 DRF	100-240 V ac, 50/60 Hz, 31 VA	24V dc, Input 0,1: 11 mA/pt Others: 7 mA/pt	240 V ac, 2 A (GEN/RES) 30 V dc, 2 A (GEN/RES)	24 V dc, 250 mA
TWDLCAA24 DRF	100-240 V ac, 50/60 Hz, 40 VA	24V dc, Input 0,1: 11 mA/pt Others: 7 mA/pt	240 V ac, 2 A (GEN/RES) 30 V dc, 2 A (GEN/RES)	24 V dc, 250 mA
TWDLCDA10 DRF	24 V dc, 160 mA	24V dc, Input 0,1: 11 mA/pt Others: 7 mA/pt	240 V ac, 2 A (GEN/RES) 30 V dc, 2 A (GEN/RES)	
TWDLCDA16 DRF	24 V dc, 190 mA	24V dc, Input 0,1: 11 mA/pt Others: 7 mA/pt	240 V ac, 2 A (GEN/RES) 30 V dc, 2 A (GEN/RES)	
TWDLCDA24 DRF	24 V dc, 230 mA	24V dc, Input 0,1: 11 mA/pt Others: 7 mA/pt	240 V ac, 2 A (GEN/RES) 30 V dc, 2 A (GEN/RES)	
TWDLMDA20 DRT1	24 V dc, 120 mA	24 V dc, Input 0,1,6,7: 5 mA/pt Others: 7 mA/pt	Relay: 240 V ac, 2A (GEN/RES) 30 V dc, 2A (GEN/RES) Transistor: 24 V dc, 0.3 A/pt	
TWDLMDA20 DRT	24 V dc, 120 mA	24 V dc, Input 0,1,6,7: 5 mA/pt Others: 7 mA/pt	Relay: 240 V ac, 2A (GEN/RES) 30 V dc, 2A (GEN/RES) Transistor:24 V dc, 0.3 A/pt	
TWDLMDA20 DUK	24 V dc, 80 mA	24 V dc, Input 0,1,6,7: 5 mA/pt Others: 7 mA/pt	24V dc, 0.3 A/pt	
TWDLMDA20 DTK	24 V dc, 80 mA	24 V dc, Input 0,1,6,7: 5 mA/pt Others: 7 mA/pt	24V dc, 0.3 A/pt	
TWDLMDA40 DUK	24 V dc, 120 mA	24 V dc, Input 0,1,6,7: 5 mA/pt Others: 7 mA/pt	24V dc, 0.3 A/pt	
TWDLMDA40 DTK	24 V dc, 120 mA	24 V dc, Input 0,1,6,7: 5 mA/pt Others: 7 mA/pt	24V dc, 0.3 A/pt	

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RATINGS (Continued)

Expansion Module

Module	Input Power	Innut	Outnut	
Module	(Internal)	Input	Output	
TWDDDI8DT	5V dc, 25 mA	24V dc, 7 Ma/pt	3-11-11-11	
TM2DDI8DT				
TWDDDI16DT	5 V dc, 40 mA	24 V dc, 7 mA/pt	Santa 11 1 14	
TM2DDI16DT				
TWDDDI16DK	5 V dc, 35 mA	24 V dc, 5 mA/pt		
TM2DDI16DK				
TWDDDI32DK	5 V dc, 65 mA	24 V dc, 5 mA/pt		
TM2DDI32DK				
TWDDRA8RT	24 V dc, 40 mA		240 V ac, 2 A (GEN/RES)	
TM2DRA8RT	5 V dc, 30 mA		30 V dc, 2 A (GEN/RES)	
TWDDRA16RT	24 V dc, 75 mA		240 V ac, 2 A (GEN/RES)	
TM2DRA16RT	5 V dc, 45 mA		30 V dc, 2 A (GEN/RES)	
TWDDMM8DRT	24 V dc, 20 mA	24 V dc, 7 mA/pt	240 V ac, 2 A (GEN/RES)	
TM2DMM8DRT	5 V dc, 25 mA		30 V dc, 2 A (GEN/RES)	
TWDDMM24DRF	24 V dc, 45 mA	24 V dc, 7 mA/pt	240 V ac, 2 A (GEN/RES)	
TM2DMM24DRF	5 V dc, 65 mA		30 V dc, 2 A (GEN/RES)	
TWDDDO8UT	24 V dc, 20 mA		24V dc, 0.3 A/pt	
TM2DDO8UT	5 V dc, 10 mA			
TWDDDO8TT	24 V dc, 20 mA		24 V dc, 0.3 A/pt	
TM2DDO8TT	5 V dc, 10 mA			
TWDDDO16UK	24 V dc, 40 mA		24 V dc, 0.1 A/pt	
TM2DDO16UK	5 V dc, l0mA			
TWDDDO16TK	24 V dc, 40 mA		24 V dc, 0.1 A/pt	
TM2DDO16TK	5 V dc, 10 mA			
TWDDDO32UK	24 V dc, 70 mA		24 V dc, 0.1 A/pt	
TM2DDO32UK	5V dc, 20 mA			
TWDDDO32TK	24 V dc, 70 mA		24 V dc, 0.1 A/pt	
TM2DDO32TK	5 V dc, 20 mA			

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RATINGS (Continued)

Analog Module

Module	Power Supply	Input	Output
TWDALM3LT TM2ALM3LT	24Vdc, 40 mA 5 V dc, 50 mA (Internal)	Analog Input	Analog Output
TWDAMM3HT TM2AMM3HT	24Vdc, 40 mA 5 V dc, 50 mA (Internal)	Analog Input	Analog Output
TWDAMI2HT TM2AMI2HT	24Vdc, 40 mA 5 V dc, 50 mA (Internal)	Analog Input	
TWDAMO1HT TM2AMO1HT	24Vdc, 40 mA 5 V dc, 50 mA (Internal)		Analog Output

Communication Module

Module	Power Supply	Input	Output
TWDNOZ232D	5 V dc, 25 mA		No.
TWDNOZ485D	5 V dc, 5 mA		
TWDNOZ485T	5 V dc, 5 mA		

ADDITIONAL TEST

Low temperature test at 0 °C

"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 attached Design Appraisal Document No. HTS/ETS 31078-15 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 04/10035(E1) to which this extension should be attached.

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