



CERTIFICATE NUMBER 20-2017070-PDA
EFFECTIVE DATE 11-AUG-2020
EXPIRATION DATE 10-AUG-2025
ABS TECHNICAL OFFICE Yokohama Engineering Services

CERTIFICATE OF

Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

IDEC CORPORATION

located at

OSAKA CITY, JAPAN

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Programmable Logic Controller

Model FC6A series and FC6B series


This Product Design Assessment (PDA) Certificate 20-2017070-PDA, dated 11/August/2020 remains valid until 10/August/2025 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

American Bureau of Shipping


Motohiro Tanura
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

Design Assessment (DA) Certificate Attachment for Component

DA Certificate No: 20-2017070-PDA

Effective Date: 11 August 2020

Expiration Date: 10 August 2025

Company: IDEC CORPORATION

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: FC6A and FC6B Series

FC6A Series

| Product | Type | Power Supply | Input | Output |
|-------------|--------------|-----------------------------|---|---|
| CPU Modules | FC6A-M16R1 | 24 V dc, 150 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES) 7 A/Common |
| | FC6A-M16R4 | 24 V dc, 150 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES) 7 A/Common |
| | FC6A-M16R1E | 24 V dc, 180 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES) 7 A/Common |
| | FC6A-M16R4E | 24 V dc, 180 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES) 7 A/Common |
| | FC6A-M16P1 | 24 V dc, 135 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 28.8 mA | 8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A |
| | FC6A-M16P4 | 24 V dc, 135 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 28.8 mA | 8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A |
| | FC6A-M16P1E | 24 V dc, 165 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 28.8 mA | 8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A |
| | FC6A-M16P4E | 24 V dc, 165 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 28.8 mA | 8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A |
| | FC6A-M32P3 | 24 V dc, 145 mA | 16 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 62.4 mA | 16 Transistor Source Outputs: 24 V dc, 0.1 A/PT. Total Max. 1.3 A |
| | FC6A-M32P3E | 24 V dc, 175 mA | 16 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT. Total Max. 62.4 mA | 16 Transistor Source Outputs: 24 V dc, 0.1 A/PT. Total Max. 1.3 A |
| | FC6A-C16R1A | 100-240V ac, 50/60 Hz, 31VA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6A-C16R1AE | 100-240V ac, 50/60 Hz, 33VA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6A-C24R1A | 100-240V ac, 50/60 Hz, 32VA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6A-C24R1AE | 100-240V ac, 50/60 Hz, 35VA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6A-C40R1A | 100-240V ac, 50/60 Hz, 37VA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6A-C40R1AE | 100-240V ac, 50/60 Hz, 41VA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6A-C16P1C | 24 V dc, 160 mA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Transistor Source Outputs : 24 V dc, 0.5 A/PT. |
| | FC6A-C16P1CE | 24 V dc, 190 mA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Transistor Source Outputs : 24 V dc, 0.5 A/PT. |
| | FC6A-C24P1C | 24 V dc, 170 mA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Transistor Source Outputs : 24 V dc, 0.5 A/PT. |
| | FC6A-C24P1CE | 24 V dc, 200 mA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Transistor Source Outputs : 24 V dc, 0.5 A/PT. |
| | FC6A-C40P1C | 24 V dc, 172 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Transistor Source Outputs : 24 V dc, 0.5 A/PT. |
| | FC6A-C40P1CE | 24 V dc, 205 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Transistor Source Outputs : 24 V dc, 0.5 A/PT. |

Design Assessment (DA) Certificate Attachment for Component

DA Certificate No: 20-2017070-PDA

Effective Date: 11 August 2020

Expiration Date: 10 August 2025

Company: IDEC CORPORATION

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: FC6A and FC6B Series

| Product | Type | Power Supply | Input | Output |
|---------------------------------------|---------------|-----------------------------|--|---|
| CPU Modules Brick Types | FC6A-C16K1C | 24 V dc, 160 mA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6A-C16K1CE | 24 V dc, 190 mA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6A-C24K1C | 24 V dc, 170 mA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6A-C24K1CE | 24 V dc, 200 mA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6A-C40K1C | 24 V dc, 172 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6A-C40K1CE | 24 V dc, 205 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6A-C16R1CE | 24 V dc, 140 mA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-C24R1CE | 24 V dc, 155 mA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-C40R1CE | 24 V dc, 195 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-C40R1DE | 12 V dc, 345 mA | 24 Inputs: 12 V dc, Input 0,1,6,7: 5 mA/PT, Others: 6 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-C40P1DE | 12 V dc, 260 mA | 24 Inputs: 12 V dc, Input 0,1,6,7: 5 mA/PT, Others: 6 mA/PT | 16 Transistor Source Outputs: 12 V dc, 0.5A/PT |
| | FC6A-C40K1DE | 12 V dc, 260 mA | 24 Inputs: 12 V dc, Input 0,1,6,7: 5 mA/PT, Others: 6 mA/PT | 16 Transistor Sink Outputs: 12 V dc, 0.5A/PT |
| CPU Modules Brick CAN bus Types | FC6A-C40R1AEJ | 100-240V ac, 50/60 Hz, 37VA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common Aux. Output: 24V dc, 250mA |
| | FC6A-C40R1CEJ | 24 V dc, 205 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-C40R1DEJ | 12 V dc, 340 mA | 24 Inputs: 12 V dc, Input 0,1,6,7: 5 mA/PT, Others: 6 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-C40P1CEJ | 24 V dc, 175 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Transistor Source Outputs: 24 V dc, 0.5A/PT |
| | FC6A-C40P1DEJ | 12 V dc, 320 mA | 24 Inputs: 12 V dc, Input 0,1,6,7: 5 mA/PT, Others: 6 mA/PT | 16 Transistor Source Outputs: 12 V dc, 0.5A/PT |
| | FC6A-C40K1CEJ | 24 V dc, 175 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6A-C40K1DEJ | 12 V dc, 320 mA | 24 Inputs: 12 V dc, Input 0,1,6,7: 5 mA/PT, Others: 6 mA/PT | 16 Transistor Sink Outputs: 12 V dc, 0.5A/PT |
| CPU Modules | FC6A-D16R1CEE | 24 V dc, 120 mA | 8 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT | 8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A(Common) |
| | FC6A-D16P1CEE | 24 V dc, 120 mA | 8 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 26.4 mA | 8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A |
| | FC6A-D16K1CEE | 24 V dc, 120 mA | 8 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 26.4 mA | 8 Transistor Sink Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A |
| | FC6A-D32P3CEE | 24 V dc, 140 mA | 16 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 60.0 mA | 16 Transistor Source Outputs: 24 V dc, 0.1 A/PT. Total Max. 1.28 A |
| | FC6A-D32K3CEE | 24 V dc, 140 mA | 16 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 60.0 mA | 16 Transistor Sink Outputs: 24 V dc, 0.1 A/PT. Total Max. 1.28 A |
| | FC6A-D16R4CEE | 24 V dc, 120 mA | 8 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT | 8 Relay Outputs: 240 Vac/30 Vdc, 2A (GEN/RES), 7 A(Common) |

Design Assessment (DA) Certificate Attachment for Component

DA Certificate No: 20-2017070-PDA

Effective Date: 11 August 2020

Expiration Date: 10 August 2025

Company: IDEC CORPORATION

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: FC6A and FC6B Series

| Product | Type | Power Supply | Input | Output |
|----------------|---------------|--------------------------------|--|--|
| CPU Modules | FC6A-D16P4CEE | 24 V dc, 120 mA | 8 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 26.4 mA | 8 Transistor Source Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A |
| | FC6A-D16K4CEE | 24 V dc, 120 mA | 8 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 26.4 mA | 8 Transistor Sink Outputs: 24 V dc, 0.5 A/PT. Total Max. 3.2 A |
| | FC6A-D32P4CEE | 24 V dc, 140 mA | 16 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 60.0 mA | 16 Transistor Source Outputs: 24 V dc, 0.1 A/PT. Total Max. 1.28 A |
| | FC6A-D32K4CEE | 24 V dc, 140 mA | 16 Inputs: 24 V dc, Input 0,1,3,4,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 60.0 mA | 16 Transistor Sink Outputs: 24 V dc, 0.1 A/PT. Total Max. 1.28 A |
| Input Modules | FC6A-N08B1 | 5 V dc, 30 mA | 8 inputs, 24 V dc, 7 mA/PT | - |
| | FC6A-N08B4 | 5 V dc, 30 mA | 8 inputs, 24 V dc, 7 mA/PT | - |
| | FC6A-N16B1 | 5 V dc, 40 mA | 16 inputs, 24 V dc, 7 mA/PT, Total Max. 123.2 mA | - |
| | FC6A-N16B4 | 5 V dc, 40 mA | 16 inputs, 24 V dc, 7 mA/PT, Total Max. 123.2 mA | - |
| | FC6A-N16B3 | 5 V dc, 40 mA | 16 inputs, 24 V dc, 5 mA/PT, Total Max. 72 mA | - |
| | FC6A-N32B3 | 5 V dc, 65 mA | 32 inputs, 24 V dc, 5 mA/PT, Total Max. 144 mA | - |
| | FC6A-N08A11 | 5 V dc, 40 mA | 8 inputs, 120 V ac, 50/60 Hz, 15 mA | - |
| | FC6A-N08A14 | 5 V dc, 40 mA | 8 inputs, 120 V ac, 50/60 Hz, 15 mA | - |
| Output Modules | FC6A-R081 | 24 V dc, 50 mA, 5 V dc, 35 mA | - | 8 Relay Outputs, 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-R084 | 24 V dc, 50 mA, 5 V dc, 35 mA | - | 8 Relay Outputs, 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-R161 | 24 V dc, 100 mA, 5 V dc, 50 mA | - | 16 Relay Outputs, 240 V ac/30 V dc, 2 A (GEN/RES), 8 A/Common |
| | FC6A-R164 | 24 V dc, 100 mA, 5 V dc, 50 mA | - | 16 Relay Outputs, 240 V ac/30 V dc, 2 A (GEN/RES), 8 A/Common |
| | FC6A-T08P1 | 24 V dc, 15 mA, 5 V dc, 25 mA | - | 8 Transistor Source Outputs: 24 V dc, 0.5 A/PT |
| | FC6A-T08P4 | 24 V dc, 15 mA, 5 V dc, 25 mA | - | 8 Transistor Source Outputs: 24 V dc, 0.5 A/PT |
| | FC6A-T16P1 | 24 V dc, 25 mA, 5 V dc, 30 mA | - | 16 Transistor Source Outputs: 24 V dc, 0.5 A/PT |
| | FC6A-T16P4 | 24 V dc, 25 mA, 5 V dc, 30 mA | - | 16 Transistor Source Outputs: 24 V dc, 0.5 A/PT |
| | FC6A-T16P3 | 24 V dc, 25 mA, 5 V dc, 30 mA | - | 16 Transistor Source Outputs: 24 V dc, 0.1 A/PT |
| | FC6A-T32P3 | 24 V dc, 50 mA, 5 V dc, 45 mA | - | 32 Transistor Source Outputs: 24 V dc, 0.1 A/PT |
| | FC6A-T08K1 | 24 V dc, 15 mA, 5 V dc, 25 mA | - | 8 Transistor Sink Outputs: 24 V dc, 0.5 A/PT |
| | FC6A-T08K4 | 24 V dc, 15 mA, 5 V dc, 25 mA | - | 8 Transistor Sink Outputs: 24 V dc, 0.5 A/PT |
| | FC6A-T16K1 | 24 V dc, 25 mA, 5 V dc, 30 mA | - | 16 Transistor Sink Outputs: 24 V dc, 0.5 A/PT |
| | FC6A-T16K4 | 24 V dc, 25 mA, 5 V dc, 30 mA | - | 16 Transistor Sink Outputs: 24 V dc, 0.5 A/PT |
| | FC6A-T16K3 | 24 V dc, 25 mA, 5 V dc, 30 mA | - | 16 Transistor Sink Outputs: 24 V dc, 0.1 A/PT |
| | FC6A-T32K3 | 24 V dc, 50 mA, 5 V dc, 45 mA | - | 32 Transistor Sink Outputs: 24 V dc, 0.1 A/PT |

Design Assessment (DA) Certificate Attachment for Component

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Company: IDEC CORPORATION

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: FC6A and FC6B Series

| Product | Type | Power Supply | Input | Output |
|---------------------|-------------|-----------------------------------|---|--|
| I/O Mixture Modules | FC6A-M08BR1 | 24 V dc, 25 mA, 5 V dc, 30 mA | 4 Inputs, 24 V dc, 7 mA/PT | 4 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-M08BR4 | 24 V dc, 25 mA, 5 V dc, 30 mA | 4 Inputs, 24 V dc, 7 mA/PT | 4 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-M24BR1 | 24 V dc, 50 mA, 5 V dc, 55 mA | 16 Inputs, 24 V dc, 7 mA/PT. Total Max. 123.2 mA | 8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-M24BR4 | 24 V dc, 50 mA, 5 V dc, 55 mA | 16 Inputs, 24 V dc, 7 mA/PT. Total Max. 123.2 mA | 8 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common |
| | FC6A-TYS4 | 24 V dc, 25 mA, 5 V dc, 50 mA | 12 Inputs, 24 V dc, 5 mA/PT | 8 Source Transistor Outputs: 24 V dc, 0.3 A/PT. |
| Analog Modules | FC6A-J2C1 | 24 V dc, 25 mA, 5 V dc, 40 mA | 2 Analog Inputs | - |
| | FC6A-J2C4 | 24 V dc, 25 mA, 5 V dc, 40 mA | 2 Analog Inputs | - |
| | FC6A-J4A1 | 24 V dc, 30 mA, 5 V dc, 45 mA | 4 Analog Inputs | - |
| | FC6A-J4A4 | 24 V dc, 30 mA, 5 V dc, 45 mA | 4 Analog Inputs | - |
| | FC6A-J8A1 | 24 V dc, 40 mA, 5 V dc, 40 mA | 8 Analog Inputs | - |
| | FC6A-J8A4 | 24 V dc, 40 mA, 5 V dc, 40 mA | 8 Analog Inputs | - |
| | FC6A-K2A1 | 24 V dc, 70 mA, 5 V dc, 40 mA | - | 2 Analog Outputs |
| | FC6A-K2A4 | 24 V dc, 70 mA, 5 V dc, 40 mA | - | 2 Analog Outputs |
| | FC6A-K4A1 | 24 V dc, 125 mA, 5 V dc, 50 mA | - | 4 Analog Outputs |
| | FC6A-K4A4 | 24 V dc, 125 mA, 5 V dc, 50 mA | - | 4 Analog Outputs |
| | FC6A-L06A1 | 24 V dc, 100 mA, 5 V dc, 55 mA | 4 Analog Inputs | 2 Analog Outputs |
| | FC6A-L06A4 | 24 V dc, 100 mA, 5 V dc, 55 mA | 4 Analog Inputs | 2 Analog Outputs |
| | FC6A-L03CN1 | 24 V dc, 80 mA, 5 V dc, 60 mA | 2 Analog Inputs | 1 Analog Output |
| | FC6A-L03CN4 | 24 V dc, 80 mA, 5 V dc, 60 mA | 2 Analog Inputs | 1 Analog Output |
| | FC6A-J4CN1 | 24 V dc, 40 mA, 5 V dc, 50 mA | 4 Analog Inputs | - |
| | FC6A-J4CN4 | 24 V dc, 40 mA, 5 V dc, 50 mA | 4 Analog Inputs | - |
| | FC6A-J8CU1 | 24 V dc, 30 mA, 5 V dc, 45 mA | 8 Analog Inputs | - |
| | FC6A-J8CU4 | 24 V dc, 30 mA, 5 V dc, 45 mA | 8 Analog Inputs | - |

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Company: IDEC CORPORATION

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: FC6A and FC6B Series

| Product | Type | Power Supply | Input | Output |
|-----------------------------|-------------|-----------------------------------|--|---|
| Analog Modules | FC6A-F2MR1 | 24 V dc, 150 mA, 5V dc, 65 mA | 2 Analog Inputs | 2 Relay Outputs, 250 V ac/30 V dc, 5 A (RES), 3 A (GEN) |
| | FC6A-F2MR4 | 24 V dc, 150 mA, 5V dc, 65 mA | 2 Analog Inputs | 2 Relay Outputs, 250 V ac/30 V dc, 5 A (RES), 3 A (GEN) |
| | FC6A-F2M1 | 24 V dc, 150 mA, 5V dc, 65 mA | 2 Analog Inputs | 2 Analog Outputs or Digital Output |
| | FC6A-F2M4 | 24 V dc, 150 mA, 5V dc, 65 mA | 2 Analog Inputs | 2 Analog Outputs or Digital Output |
| | FC6A-J4CH1Y | 24 V dc, 40 mA, 5V dc, 50 mA | 4 Analog Inputs | - |
| | FC6A-J4CH4Y | 24 V dc, 40 mA, 5V dc, 50 mA | 4 Analog Inputs | - |
| Option Modules | FC6A-PJ2A | 3.3V dc, 30 mA | 2 Analog Inputs | - |
| | FC6A-PK2AV | 5 V dc, 70 mA, 3.3V dc, 30 mA | - | 2 Analog Outputs |
| | FC6A-PK2AW | 5 V dc, 185 mA, 3.3V dc, 30 mA | - | 2 Analog Outputs |
| | FC6A-PJ2CP | 3.3V dc, 30 mA | 2 Analog Inputs | - |
| | FC6A-PC1 | 5 V dc, 23 mA, 3.3V dc, 6 mA | 2-Serial Communications (RS232C/RS485) | 2-Serial Communications (RS232C/RS485) |
| | FC6A-PC2 | 5 V dc, 23 mA, 3.3V dc, 6 mA | 2-Serial Communications (RS232C/RS485) | 2-Serial Communications (RS232C/RS485) |
| | FC6A-PC3 | 24 V dc, 23 mA 3.3V dc, 6 mA | Serial Communication (RS485) | Serial Communication (RS485) |
| | FC6A-PC4 | 5 V dc, 120 mA 3.3V dc, 30 mA | Bluetooth Communication | Bluetooth Communication |
| | FC6A-PTS4 | 3.3V dc, 35 mA | - | 4 Transistor Source Outputs: 24V dc, 0.1A/pt. 12V dc, 0.1A/pt. |
| | FC6A-PTK4 | 3.3V dc, 35 mA | - | 4 Transistor Sink Outputs: 24V dc, 0.1A/pt. 12V dc, 0.1A/pt. |
| | FC6A-PN4 | 3.3V dc, 35 mA | 4 Inputs: 24V dc, 5 mA/pt. 12V dc, 2.5 mA/pt. | - |
| | FC6A-PC99 | 5 V dc, 23 mA 3.3V dc, 6 mA | Serial Communication (RS485) | Serial Communication (RS485) |
| Expansion Interface Modules | FC6A-EXM2 | 24 V dc, 20 mA | - | - |
| | FC6A-EXM1M | 5V dc, 75 mA | - | - |
| | FC6A-EXM1S | 24 V dc, 55 mA | - | - |
| | FC6A-EXM24 | 24 V dc, 20 mA | - | - |
| | FC6A-EXM1S4 | 24 V dc, 55 mA | - | - |
| HMI Modules | FC6A-PH1 | 24 V dc, 15 mA 5 V dc, 300 mA | - | - |
| Communication Module | FC6A-SIF52 | 24 V dc, 35 mA 5 V dc, 35 mA | - | - |
| | FC6A-SIF524 | 24 V dc, 35 mA 5 V dc, 35 mA | - | - |
| Cartridge Base Module | FC6A-HPH1 | - | - | - |

Design Assessment (DA) Certificate Attachment for Component

DA Certificate No: 20-2017070-PDA

Effective Date: 11 August 2020

Expiration Date: 10 August 2025

Company: IDEC CORPORATION

Factory or Works:

Product/Equipment: Programmable Logic Controller

Model: FC6A and FC6B Series

FC6B Series

| Product | Type | Power Supply | Input | Output |
|---------------------------------------|-------------|----------------------------------|---|---|
| CPU Modules Brick Low-end Types | FC6B-C16R1A | 100-240 V ac, 50/60 Hz, 26 VA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6B-C16R1C | 24 V dc, 110 mA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, |
| | FC6B-C24R1A | 100-240 V ac, 50/60 Hz, 28 VA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6B-C24R1C | 24 V dc 125 mA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, |
| | FC6B-C40R1A | 100-240 V ac, 50/60 Hz, 34 VA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, Aux. Output: 24V dc, 250mA |
| | FC6B-C40R1C | 24 V dc 165 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Relay Outputs: 240 V ac/30 V dc, 2 A (GEN/RES), 7 A/Common, |
| | FC6B-C16P1C | 24 V dc, 100 mA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Transistor Source Outputs: 24 V dc, 0.5A/PT |
| | FC6B-C24P1C | 24 V dc, 105 mA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Transistor Source Outputs: 24 V dc, 0.5A/PT |
| | FC6B-C40P1C | 24 V dc, 120 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Transistor Source Outputs: 24 V dc, 0.5A/PT |
| | FC6B-C16K1C | 24 V dc, 100 mA | 9 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 7 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6B-C24K1C | 24 V dc, 105 mA | 14 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 10 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6B-C40K1C | 24 V dc, 120 mA | 24 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 16 Transistor Sink Outputs: 24 V dc, 0.5A/PT |
| | FC6B-D16R1C | 24 V dc, 100 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 8 Relay Outputs: 240 Vac/30 Vdc, 2 A (GEN/RES), 7 A(Common) |
| | FC6B-D16P1C | 24 V dc, 80 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 28.8 mA | 8 Transistor Source Outputs: 24 V ac, 0.5A/PT, Total Max. 3.2A |
| | FC6B-D16K1C | 24 V dc, 80 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 28.8 mA | 8 Transistor Sink Outputs: 24 V ac, 0.5A/PT, Total Max. 3.2A |
| | FC6B-D32P3C | 24 V dc, 95 mA | 16 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 62.4 mA | 16 Transistor Source Outputs: 24 V dc, 0.1A/PT, Total Max. 1.28A |
| | FC6B-D32K3C | 24 V dc, 95 mA | 16 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 62.4 mA | 16 Transistor Sink Outputs: 24 V dc, 0.1A/PT, Total Max. 1.28A |
| | FC6B-D16R4C | 24 V dc, 100 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT | 8 Relay Outputs: 240 Vac/30 Vdc, 2A (GEN/RES), 7 A(Common) |
| | FC6B-D16P4C | 24 V dc, 80 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 28.8 mA | 8 Transistor Source Outputs: 24 V ac, 0.5A/PT, Total Max. 3.2A |
| | FC6B-D16K4C | 24 V dc, 80 mA | 8 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 28.8 mA | 8 Transistor Sink Outputs: 24 V ac, 0.5A/PT, Total Max. 3.2A |
| | FC6B-D32P4C | 24 V dc, 95 mA | 16 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7 mA/PT Total Max. 62.4 mA | 16 Transistor Source Outputs: 24 V dc, 0.1A/PT, Total Max. 1.28A |
| | FC6B-D32K4C | 24 V dc, 95 mA | 16 Inputs: 24 V dc, Input 0,1,6,7: 5 mA/PT, Others: 7mA/PT. Total Max. 62.4 mA | 16 Transistor Sink Outputs: 24 V dc, 0.1A/PT, Total Max. 1.28A |

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