

## Active module - UM-D37SUB/M/HC3/16DO/MR/1/SI - 2903733

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16-channel relay module for Honeywell C300 output modules TDOB01 and TBOB11. On the controller side, the module is controlled on a 37-pos. basis via D-SUB. A screw connection is available (marking: 1...48) on the field side. Module width: 142 mm

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 760775 |
| GTIN         | 4046356760775                                                                                           |

### Technical data

#### Note

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---------------------------------------------------------------------------|

#### Dimensions

|        |          |
|--------|----------|
| Width  | 142.3 mm |
| Height | 142.3 mm |
| Depth  | 65 mm    |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

#### Input data

|                                           |             |
|-------------------------------------------|-------------|
| Nominal input voltage $U_N$               | 24 V DC     |
| Input voltage range in reference to $U_N$ | 0.9 ... 1.1 |
| Typical input current at $U_N$            | 9 mA        |
| Typical response time                     | 5 ms        |
| Typical release time                      | 7 ms        |
| Status display/channel                    | Yellow LED  |

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#### Output data

|                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| Contact type                          | 1 PDT                                            |
| Contact material                      | AgSnO                                            |
| Maximum switching voltage             | 250 V AC/DC                                      |
| Minimum switching voltage             | 12 V AC/DC                                       |
| Limiting continuous current           | 2 A (Ambient temperature of up to 30°C per path) |
| Min. switching current                | 10 mA                                            |
| Interrupting rating (ohmic load) max. | 48 W (24 V DC)                                   |
|                                       | 20 W (48 V DC)                                   |
|                                       | 18 W (60 V DC)                                   |
|                                       | 23 W (110 V DC)                                  |
|                                       | 40 W (220 V DC)                                  |
|                                       | 500 VA (250 V AC)                                |

#### General

|                         |                                |
|-------------------------|--------------------------------|
| No. of channels         | 16                             |
| Mechanical service life | approx. $2 \times 10^7$ cycles |
| Operating mode          | 100% operating factor          |
| Mounting position       | any                            |
| Assembly instructions   | In rows with zero spacing      |

#### Connection data for connection 1

|                       |                  |
|-----------------------|------------------|
| Connection name       | Controller level |
| Connection method     | D-SUB pin strip  |
| Number of connections | 1                |
| Number of positions   | 37               |

#### Connection data for connection 2

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection name                  | Field level                                 |
| Connection method                | Screw connection                            |
| Screw thread                     | M3                                          |
| Conductor cross section solid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 12                                   |
| Number of connections            | 1                                           |
| Number of positions              | 50                                          |

#### Supported controller

|                        |                                      |
|------------------------|--------------------------------------|
| Corresponding control  | HONEYWELL Experion PKS C300/C-Series |
| Corresponding I/O card | TDOB01 (non-redundant)               |
|                        | TDOB11 (redundant)                   |

#### Standards and Regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

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#### Standards and Regulations

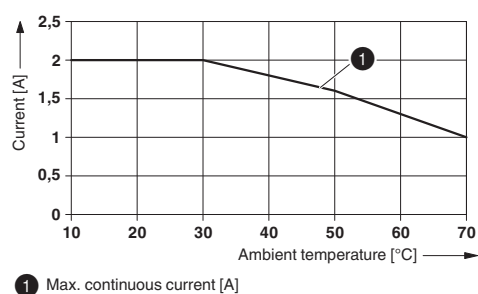
|                          |                         |
|--------------------------|-------------------------|
| Rated insulation voltage | 260 V AC                |
| Rated surge voltage      | 4 kV (basic insulation) |
| Degree of pollution      | 2                       |
| Overvoltage category     | III                     |

#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

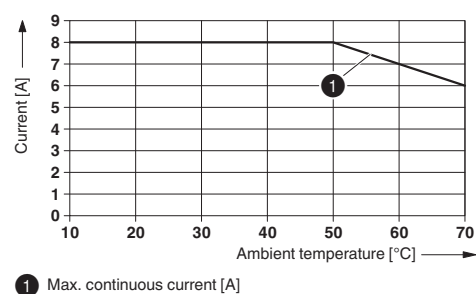
### Drawings

Diagram



Derating curve: max. continuous current (per path)

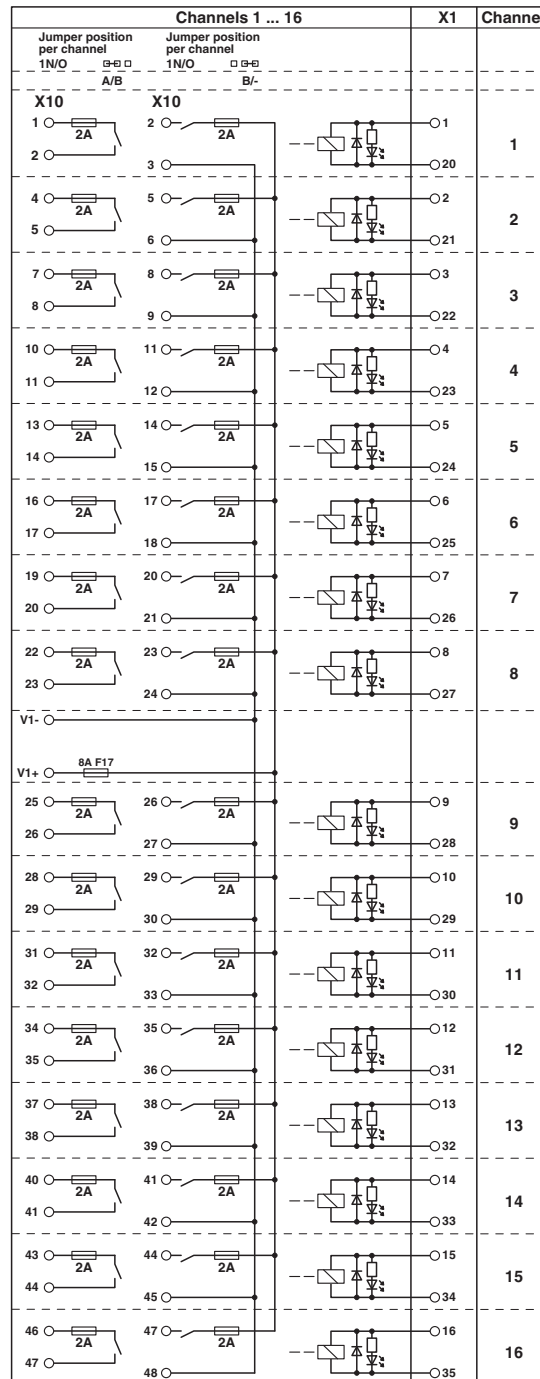
Diagram



Derating curve: max. continuous current (terminal block supply)

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Circuit diagram



Approvals

Approvals

## Active module - UM-D37SUB/M/HC3/16DO/MR/1/SI - 2903733

### Approvals

Approvals

EAC

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Ex Approvals

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### Approval details

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

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