

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



2903733

<https://www.phoenixcontact.com/us/products/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

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2903733 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK219H |
| GTIN | 4046356760775 |
| Weight per piece (including packing) | 630 g |
| Weight per piece (excluding packing) | 628 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

Technical data

Product properties

| | |
|-------------------------|--------------------------------|
| Product type | Interface module |
| No. of channels | 16 |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 2×10^7 cycles |

Insulation characteristics: Air clearances and creepage distances, input/output

| | |
|----------------------|-----------------------|
| Insulation | Reinforced insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Insulation characteristics: Air and creepage distances, output/output

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

Air clearances and creepage distances, input/output

| | |
|--------------------------|-----------------------|
| Rated insulation voltage | 300 V |
| Rated surge voltage | 6 kV (1.2/50 μ s) |

Air and creepage distances, output/output

| | |
|--------------------------|-----------------------|
| Rated insulation voltage | 300 V |
| Rated surge voltage | 4 kV (1.2/50 μ s) |

Supported controller: HONEYWELL Experion PKS C300/C-Series

| | |
|-------------------|------------------------|
| Suitable I/O card | TDOB01 (non-redundant) |
| | TDOB11 (redundant) |
| | TDIL51 (non-redundant) |

Input data

| | |
|---|-------------------------|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.9 ... 1.1 |
| Input voltage range | 21.6 V DC ... 26.4 V DC |
| Typical input current at U_N | 9 mA |
| Typical response time | 5 ms |
| Typical release time | 7 ms |
| Status display/channel | Yellow LED |

Output data

Switching

| | |
|------------------------|----------------------|
| Contact switching type | 1 changeover contact |
|------------------------|----------------------|

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| | |
|---------------------------------------|--------------------------|
| Type of switch contact | Single contact |
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC |
| | 63 V DC |
| Minimum switching voltage | 5 V (100 mA) |
| Limiting continuous current | 2 A (see derating curve) |
| Min. switching current | 100 mA |
| Interrupting rating (ohmic load) max. | 48 W (24 V DC) |
| | 20 W (48 V DC) |
| | 18 W (60 V DC) |
| | 500 VA (250 V AC) |

Connection data

Controller level

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

Field level

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Number of connections | 1 |
| Number of positions | 50 |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |

Signaling

| | |
|------------------------|-----|
| Status display present | yes |
|------------------------|-----|

Dimensions

| | |
|--------|----------|
| Width | 142 mm |
| Height | 142.5 mm |
| Depth | 66 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--------------------------------|
| Degree of protection | IP00 |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation) | -20 °C ... 70 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

Standards and regulations

Air clearances and creepage distances, input/output

| | |
|-----------------------|----------------|
| Standards/regulations | EN 61010-2-201 |
|-----------------------|----------------|

Air and creepage distances, output/output

| | |
|-----------------------|----------------|
| Standards/regulations | EN 61010-2-201 |
|-----------------------|----------------|

Mounting

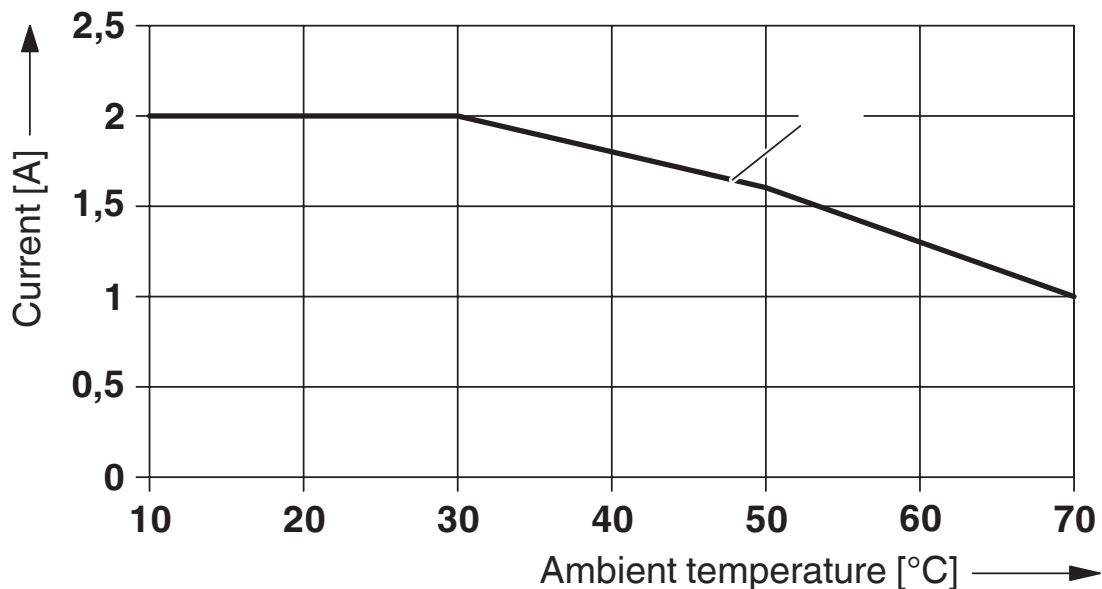
| | |
|-------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

Notes

| | |
|--------------------|--|
| Notes on operation | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch. |
| Notes on operation | No additional touch protection is required when using a SELV/PELV voltage (≤ 30 V AC or 60 V DC). |
| Notes on operation | The outputs are not suitable for switching different line conductors. The sum of the switching voltages used for adjacent outputs must not exceed the rated insulation voltage value |
| Notes on operation | Against adjacent modules in the support rail direction at least one functional insulation on the output-side is complied with. If the application has higher requirements on the insulation (basic insulation or reinforced insulation), then these must be realized through suitable measures (e. g. partition plates). |
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |

Drawings

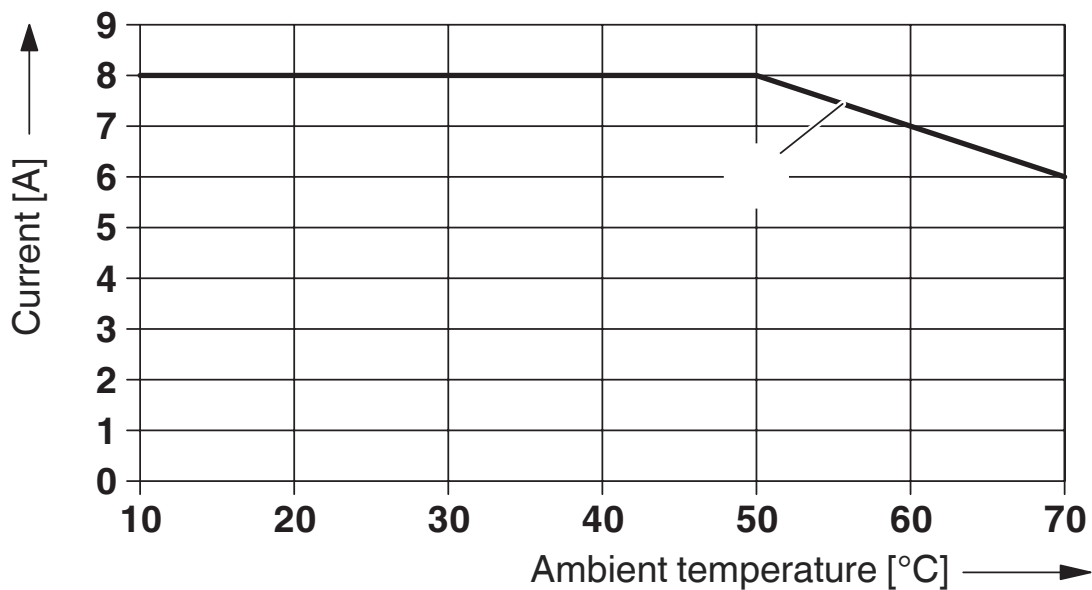
Diagram



Max. continuous current [A]

Derating curve: max. continuous current (per path)

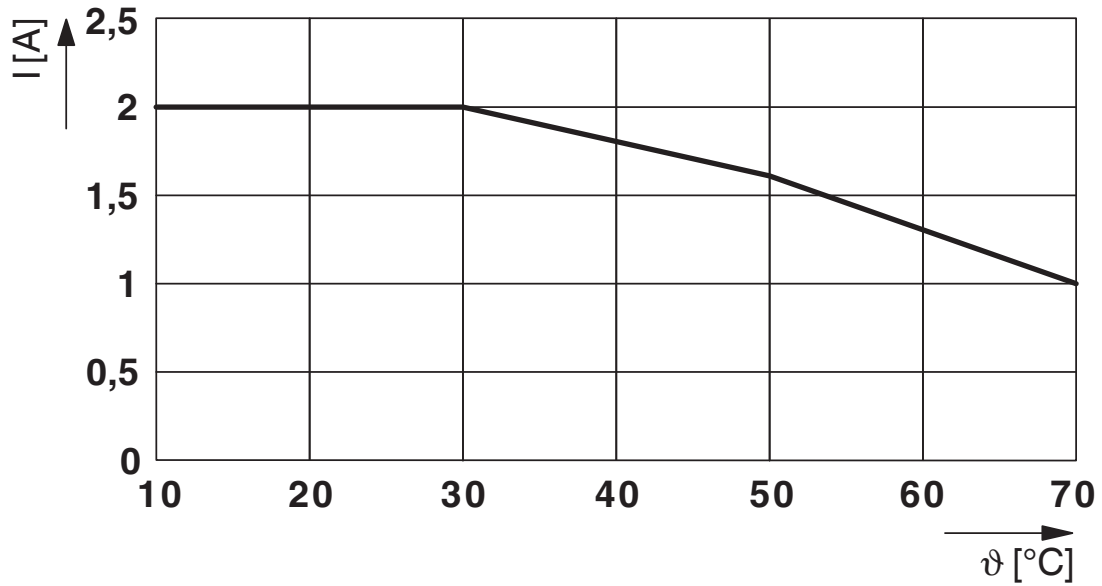
Diagram



Max. continuous current [A]

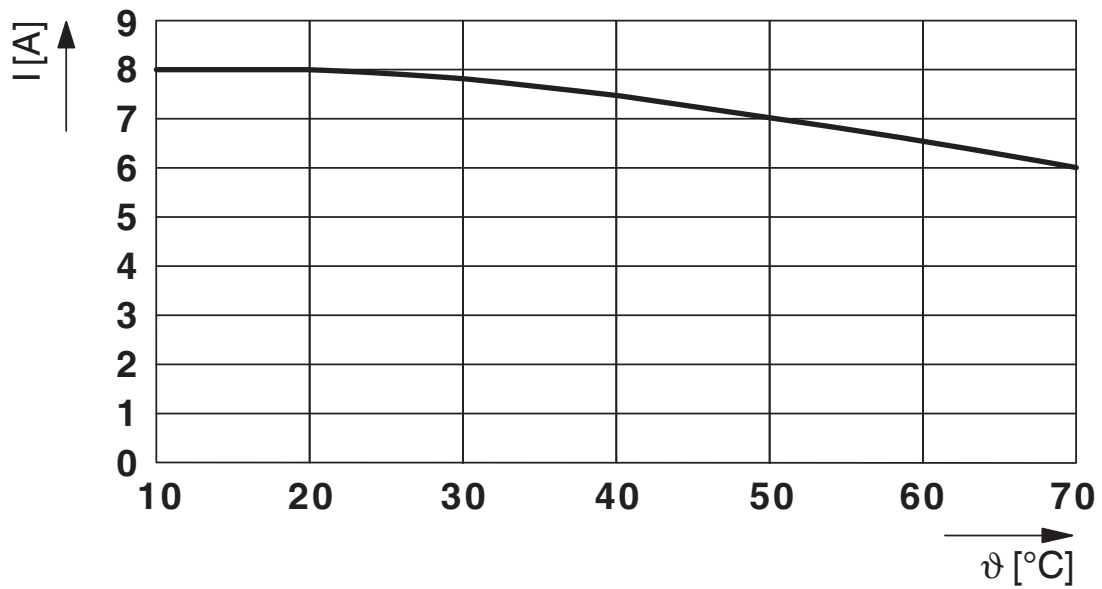
Derating curve: max. continuous current (terminal block supply)

Diagram



Derating curve: max. continuous current (per path)

Diagram

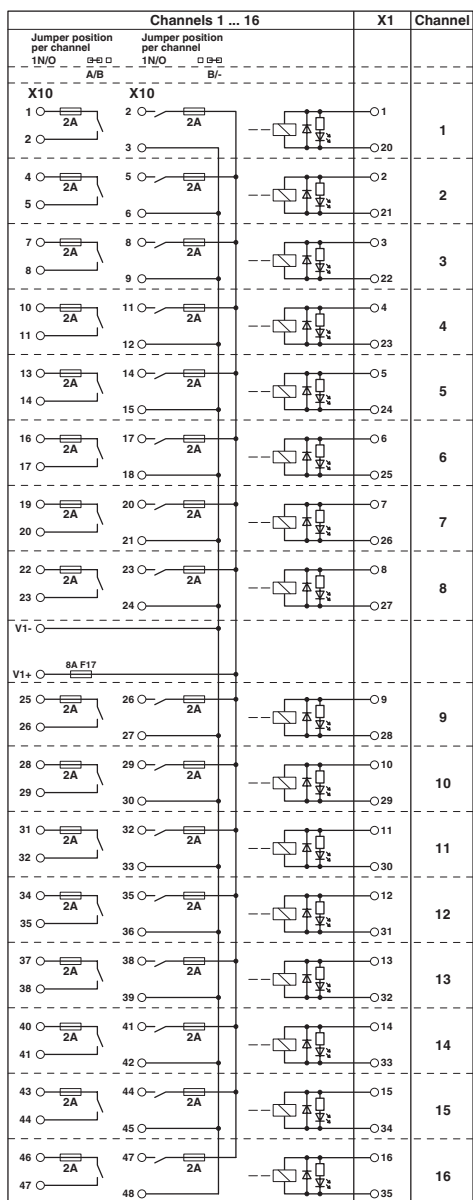


Derating curve: max. continuous current (terminal block supply)

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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2903733>



EAC

Approval ID: RU*DE*08.B.01841/19

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002780 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 20f7ab57-8e7a-460f-84ff-4b2ea4cfa84e |

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