

# 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. $2 \times 10^7$ 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 $\mu$ s)

#### Air and creepage distances, output/output

Rated insulation voltage	300 V
Rated surge voltage	4 kV (1.2/50 $\mu$ 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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2903733

<https://www.phoenixcontact.com/us/products/2903733>

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 <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

## Signaling

Status display present	yes
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## 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

2903733

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Standards/regulations	EN 61010-2-201
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Air and creepage distances, output/output

Standards/regulations	EN 61010-2-201
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## Mounting

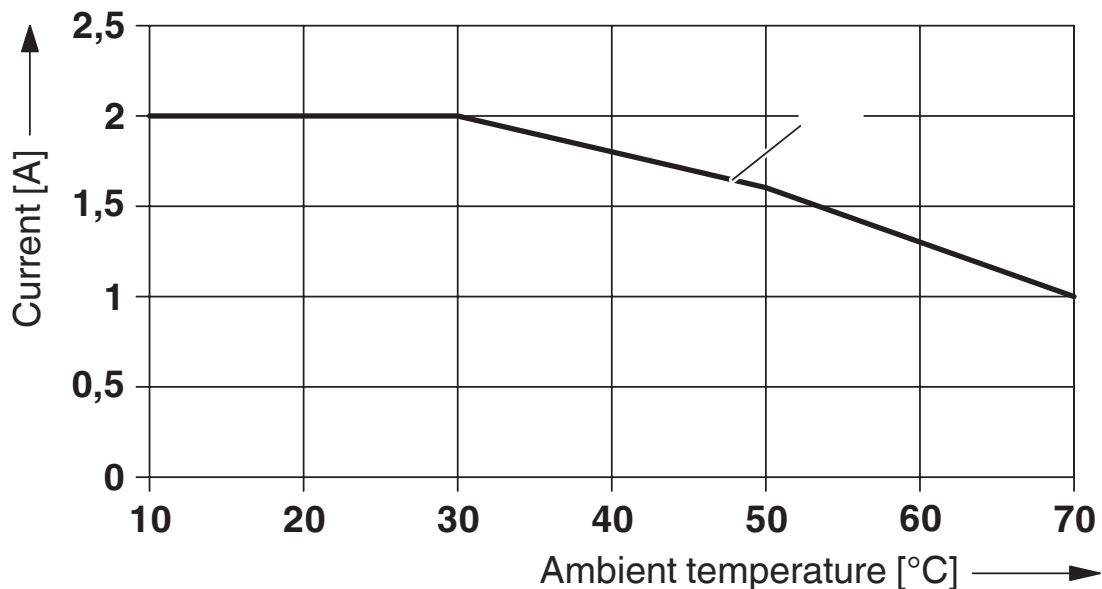
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

## 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 ( $\leq 30$ 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

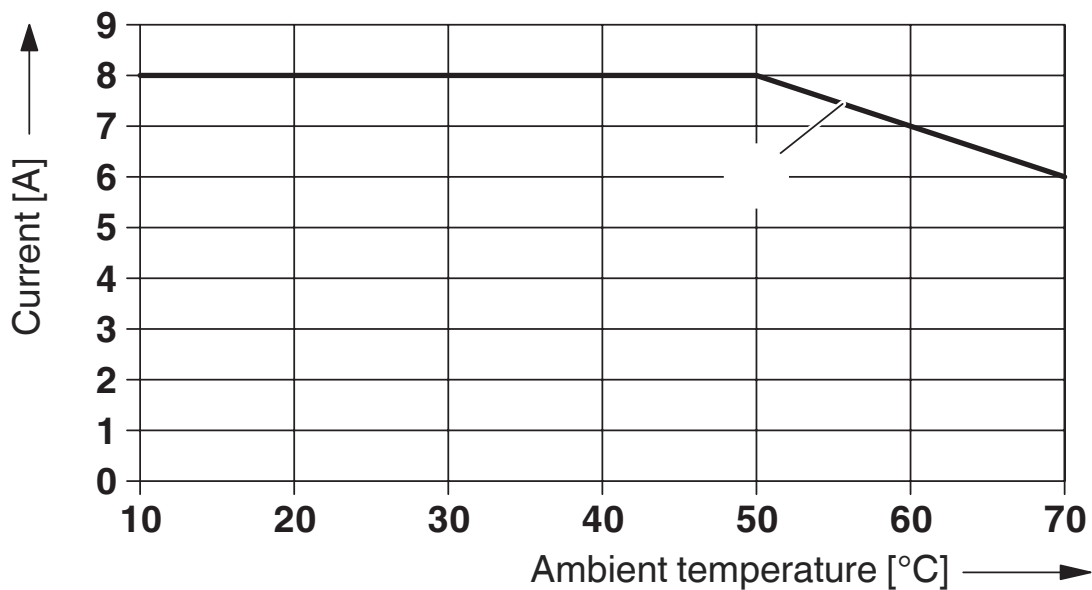
Diagram



Max. continuous current [A]

Derating curve: max. continuous current (per path)

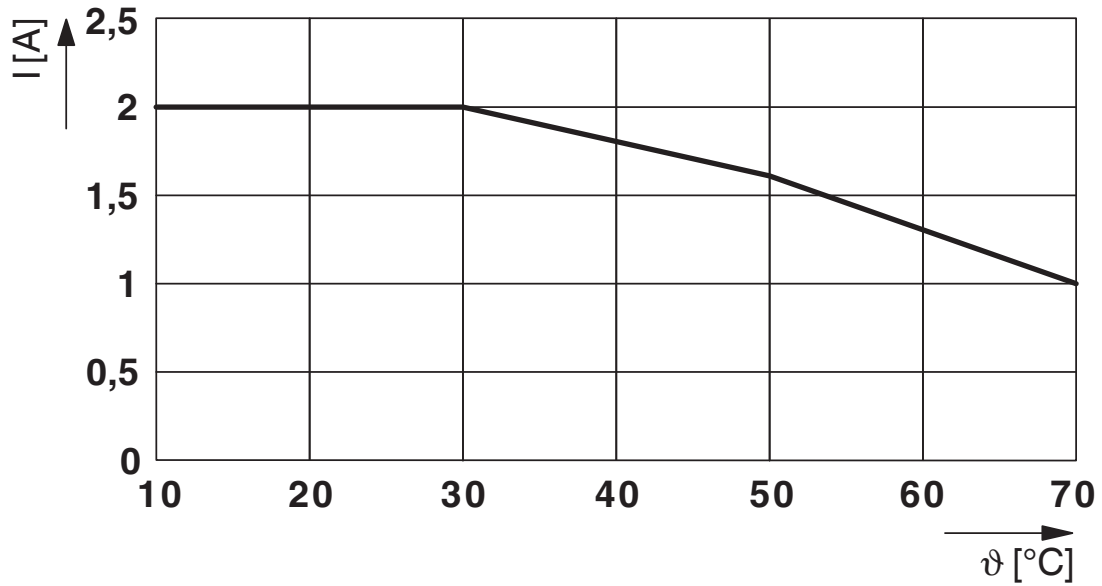
Diagram



Max. continuous current [A]

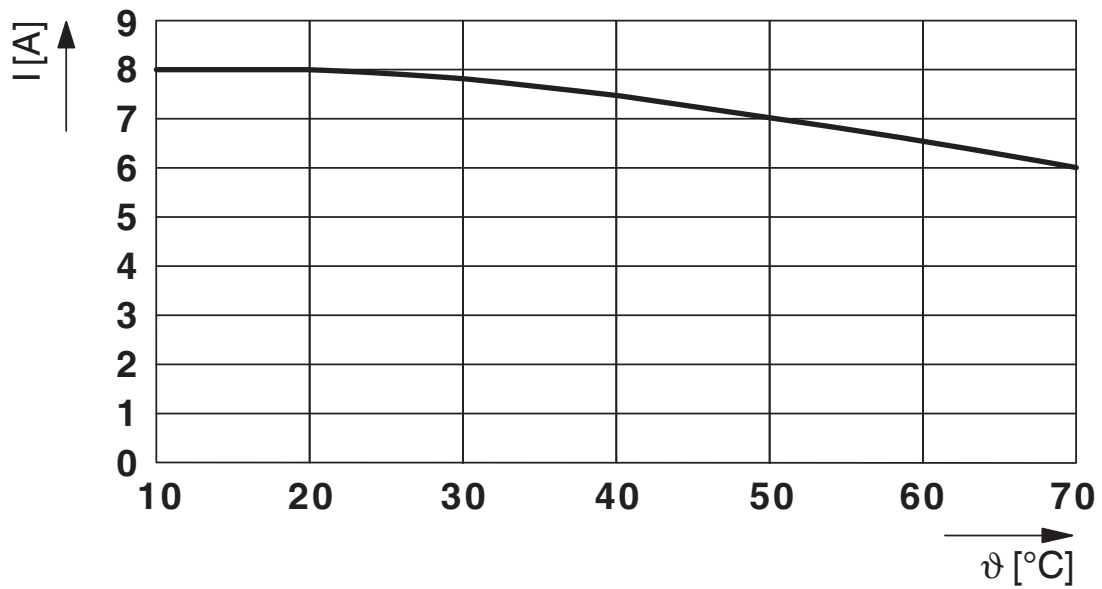
Derating curve: max. continuous current (terminal block supply)

Diagram



Derating curve: max. continuous current (per path)

Diagram

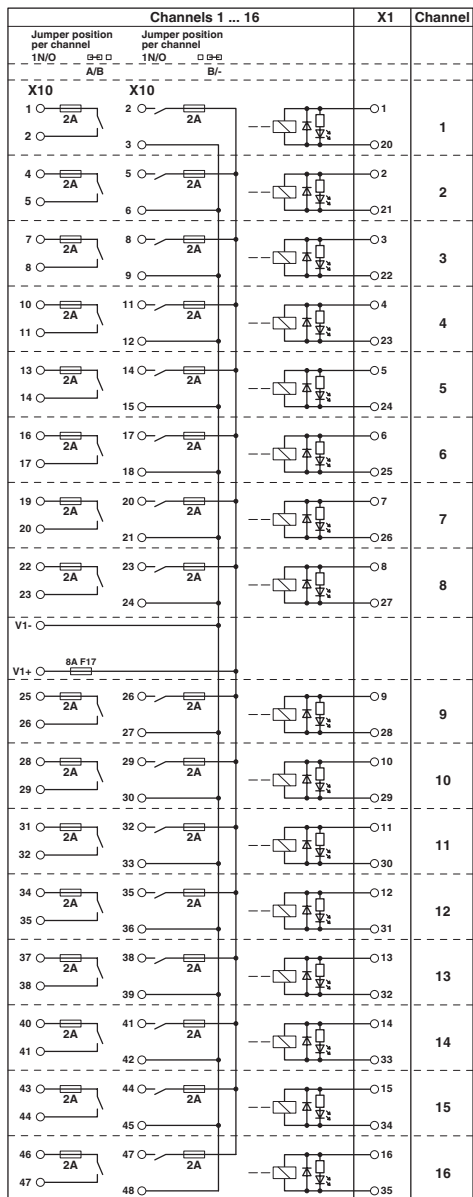


Derating curve: max. continuous current (terminal block supply)

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## Circuit diagram



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2903733

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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
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### 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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