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

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. 2x 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 µs)

Air and creepage distances, output/output

Rated insulation voltage	300 V
Rated surge voltage	4 kV (1.2/50 µs)

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

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 mm² ... 4 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
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

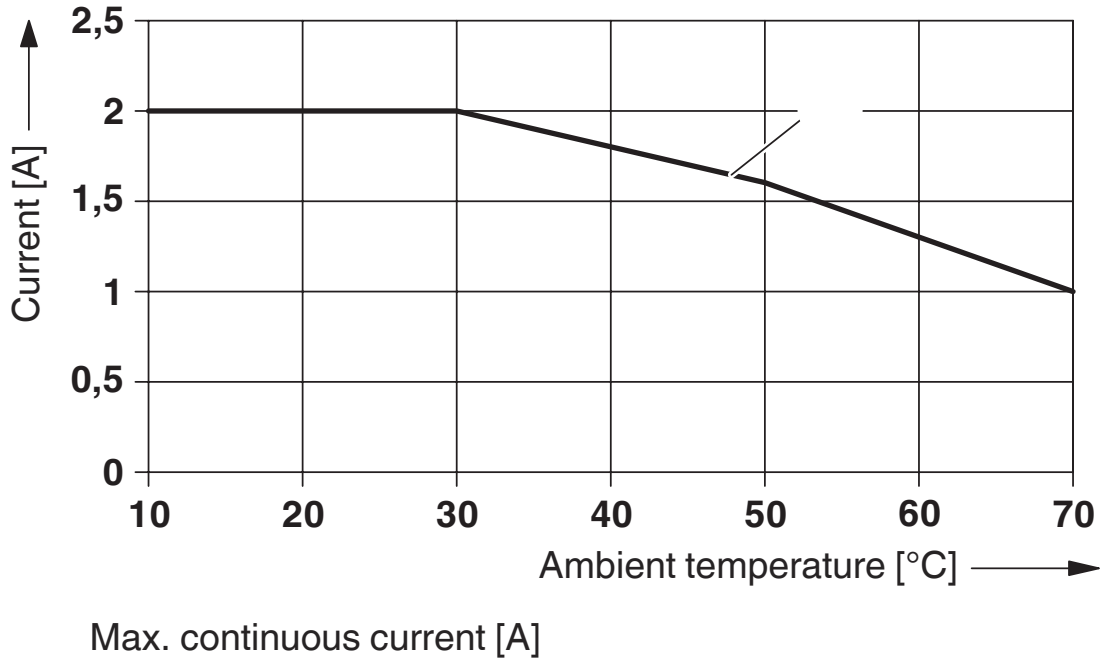
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

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. divider 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

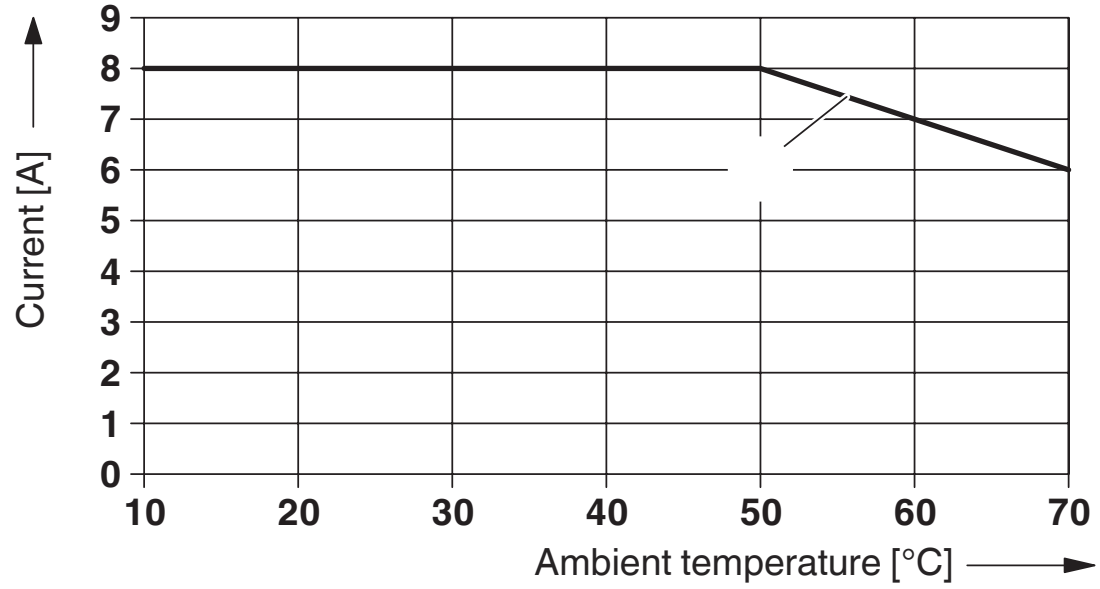
Diagram



Max. continuous current [A]

Derating curve: max. continuous current (per path)

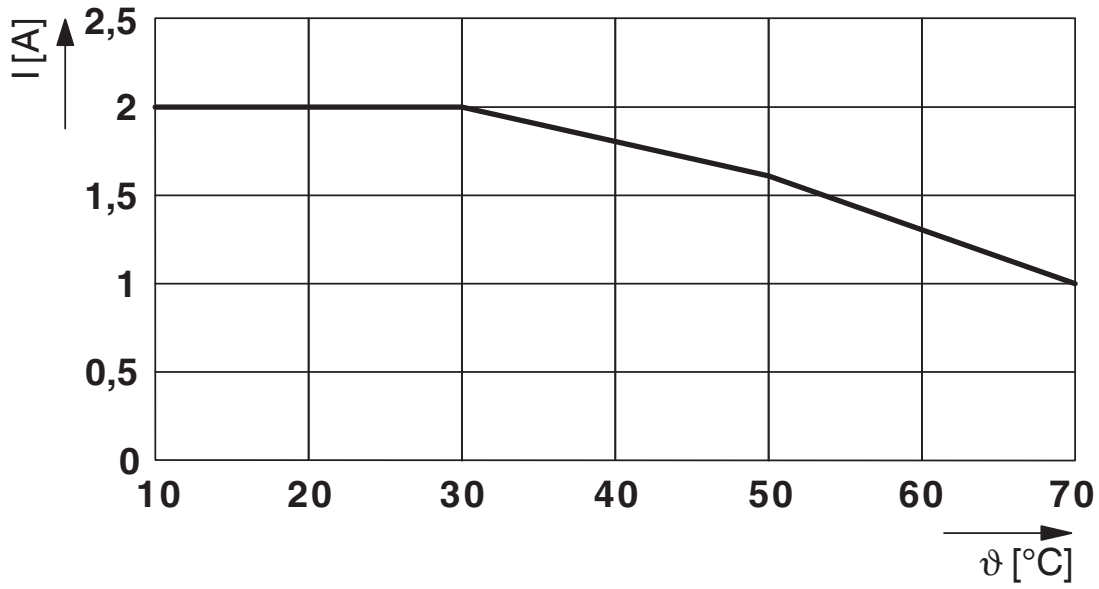
Diagram



Max. continuous current [A]

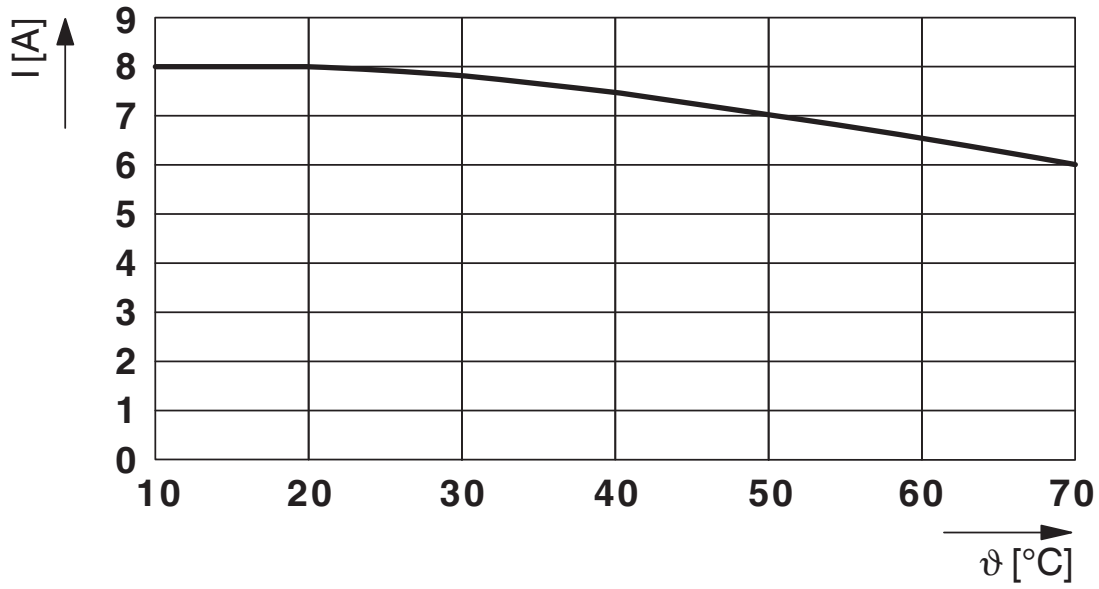
Derating curve: max. continuous current (terminal block supply)

Diagram



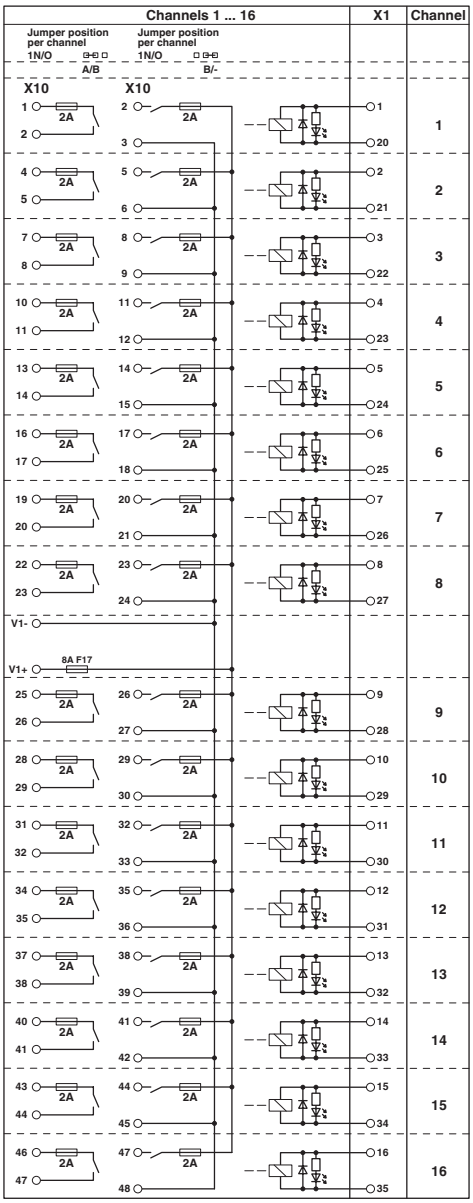
Derating curve: max. continuous current (per path)

Diagram



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

Circuit diagram



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

Classifications

ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

ETIM

ETIM 10.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

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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