

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



2904105

<https://www.phoenixcontact.com/us/products/2904105>

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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: 48...1) on the field side. Module width: 142 mm

Commercial data

Item number	2904105
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK219H
GTIN	4046356783637
Weight per piece (including packing)	570 g
Weight per piece (excluding packing)	570 g
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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Rated insulation voltage	260 V AC
Rated surge voltage	4 kV (Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths)

Supported controller HONEYWELL Experion PKS C300/C-Series

Suitable I/O card	TDOB01 (non-redundant)
	TDOB11 (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/DC
Minimum switching voltage	5 V (at 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)
	23 W (110 V DC)

	40 W (220 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
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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
Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Standards/regulations	DIN EN 50178
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Mounting

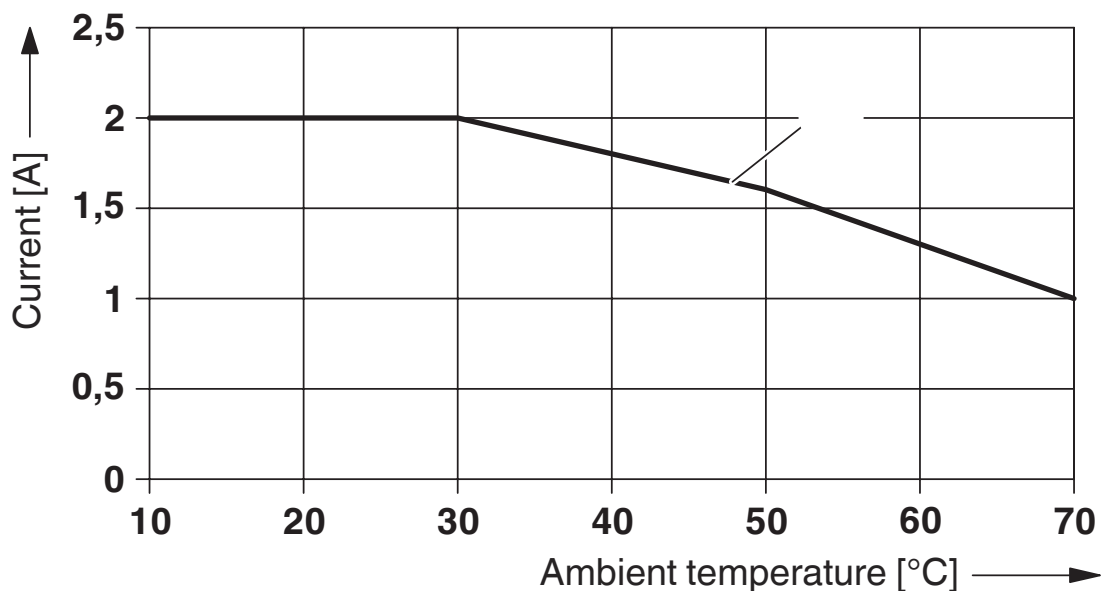
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Notes

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.
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Drawings

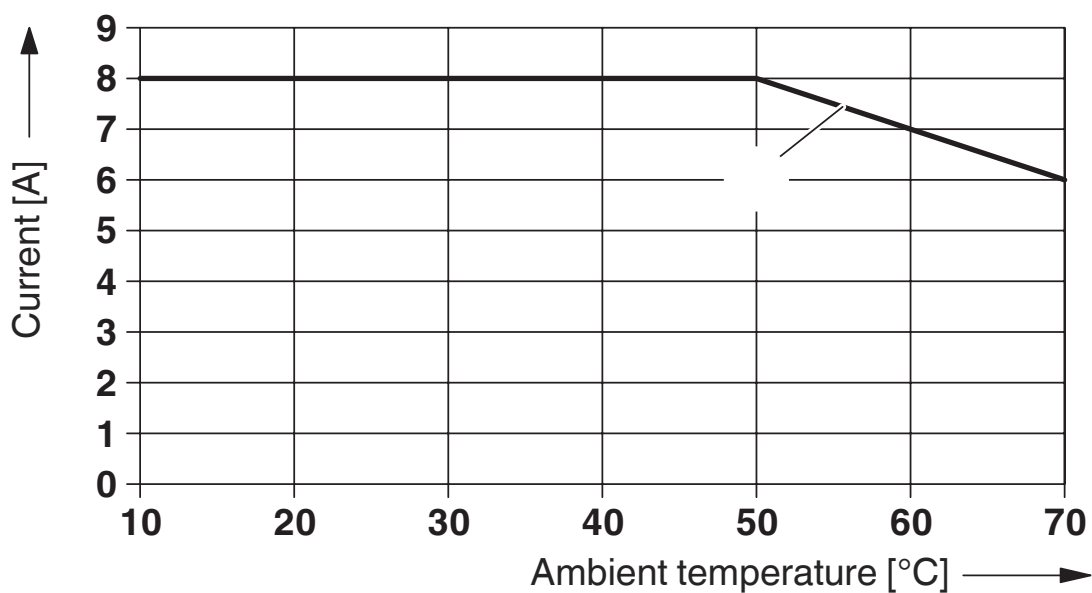
Diagram



Max. continuous current [A]

Derating curve: max. continuous current (per path)

Diagram



Max. continuous current [A]

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

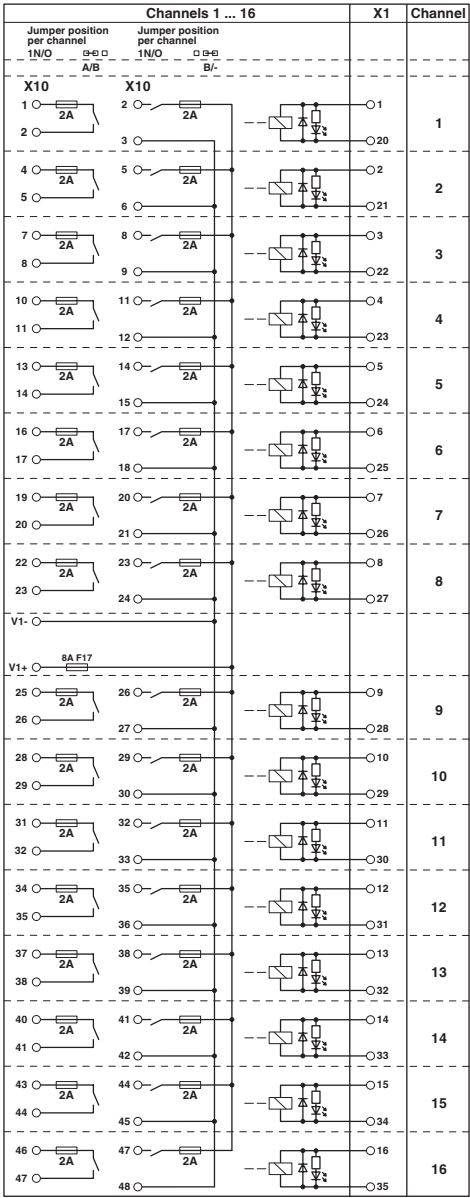
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Circuit diagram



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Classifications

UNSPSC

UNSPSC 21.0	39121432
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
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)