

# UM-D37M/16RSC-24DC/DO/C300/L - Active module



2905655

<https://www.phoenixcontact.com/us/products/2905655>

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VARIOFACE 16-channel module intended for use with Honeywell® Experion C300 24 V digital IOTA, left-hand version, 3 A, 120 V



## Your advantages

- UM-PRO housing
- DIN rail mounting, includes grounding foot
- Per channel pluggable 3 A fusing
- Per channel configuration for NO or NC contacts
- Designed to be mounted on the left side of the cabinet
- LED blown fuse indication

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2905655                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK219H                         |
| GTIN                                 | 4055626078007                  |
| Weight per piece (including packing) | 660.5 g                        |
| Weight per piece (excluding packing) | 190.5 g                        |
| Customs tariff number                | 85371098                       |
| Country of origin                    | US                             |

## Technical data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Interface module          |
| No. of channels         | 16                        |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 2x 10 <sup>7</sup> cycles |
| With components         | yes                       |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 2  |

### Electrical properties

Supported controller HONEYWELL Experion PKS C300/C-Series

|                   |                        |
|-------------------|------------------------|
| Suitable I/O card | TDOB01 (non-redundant) |
|                   | TDOB11 (redundant)     |
|                   | TDOB51 (non-redundant) |
|                   | TDOB61 (redundant)     |

### Input data

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Nominal input voltage $U_N$               | 24 V DC                                |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.1                            |
| Input voltage range                       | 19.2 V DC ... 26.4 V DC                |
| Typical input current at $U_N$            | 7 mA                                   |
| Typical response time                     | 5 ms                                   |
| Typical release time                      | 15 ms                                  |
| Protective circuit                        | Freewheeling diode; Freewheeling diode |

### Output data

#### Switching

|                                              |                      |
|----------------------------------------------|----------------------|
| Contact switching type                       | 1 changeover contact |
| Contact material                             | AgSnO                |
| Maximum switching voltage                    | 120 V AC/DC          |
| Minimum switching voltage                    | 12 V                 |
| Limiting continuous current                  | 3 A (fuse limited)   |
| Min. switching current                       | 10 mA                |
| Interrupting rating (ohmic load) max.        | 72 W (24 V DC)       |
|                                              | 20 W (48 V DC)       |
|                                              | 18 W (60 V DC)       |
|                                              | 23 W (110 V DC)      |
|                                              | 360 VA (120 V AC)    |
| Error detection (line break / short-circuit) | no                   |

## Connection data

### Controller level

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

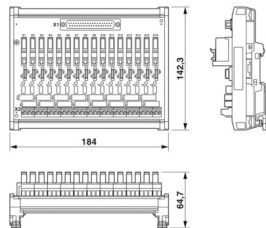
### Field level

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm                                        |
| Screw thread                     | M3                                          |
| Number of connections            | 32                                          |
| 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, if the fuse fails |
|------------------------|------------------------|

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 184 mm                                                                               |
| Height              | 142.3 mm                                                                             |
| Depth               | 64.7 mm                                                                              |

## Environmental and real-life conditions

### Ambient conditions

|                                          |                  |
|------------------------------------------|------------------|
| Degree of protection                     | IP20             |
| Ambient temperature (operation)          | -40 °C ... 70 °C |
| Ambient temperature (storage/transport)  | -40 °C ... 75 °C |
| Altitude                                 | < 2000 m         |
| Permissible humidity (operation)         | 90 %             |
| Permissible humidity (storage/transport) | 90 %             |

## Mounting

|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

## Notes

|                    |                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General            | Standard or halogen-free cables                                                                                                                                                                                                                                                |
| 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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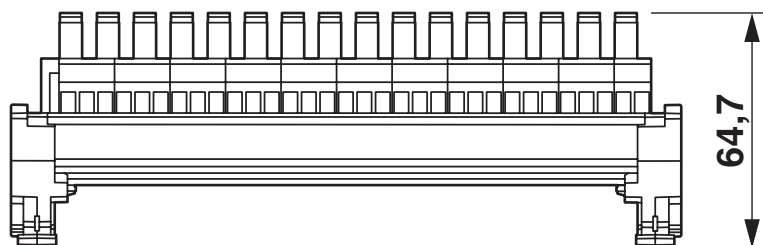
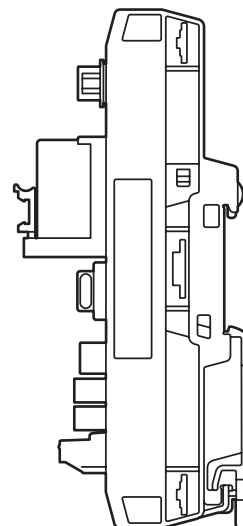
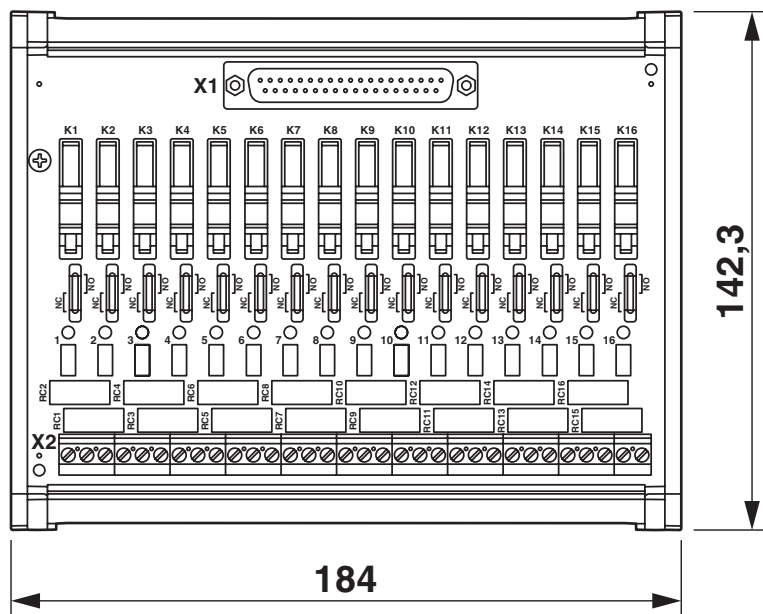


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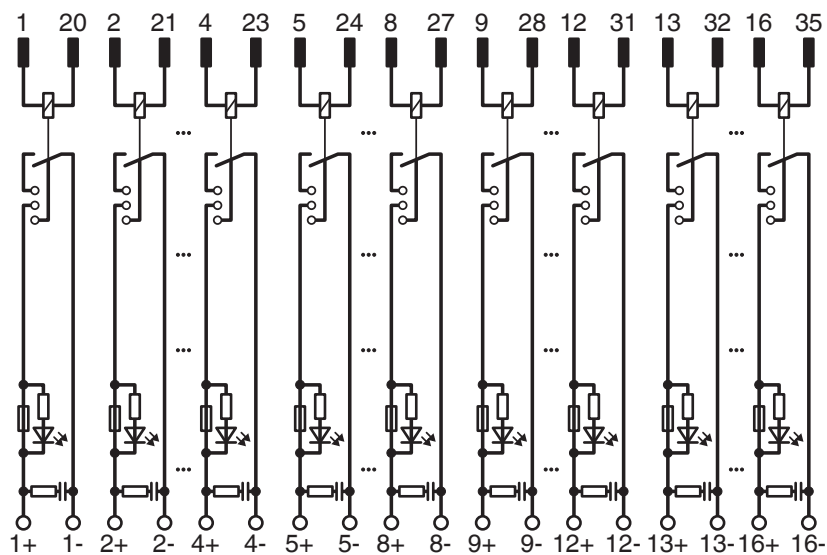
## Drawings

Dimensional drawing



Dimensional drawing of right-hand version

Circuit diagram



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## Approvals

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**cUL Recognized**  
Approval ID: E238705



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Classifications

ECLASS

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

ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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                                | 8197a3ca-d7dd-41b1-b429-7b77ac11c543 |