

IBS IP 400 ME-ELR 2-3A FO - Motor starter



2734536

<https://www.phoenixcontact.com/us/products/2734536>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Electronic motor starter, fiber optic connection, electronic module without lower part of housing, 2-channel direct starter, 4 digital inputs and 2 digital outputs, sheet steel housing, IP54 protection



Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2734536 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR15 |
| Product key | DRFAAA |
| GTIN | 4017918909987 |
| Weight per piece (including packing) | 3,350 g |
| Weight per piece (excluding packing) | 3,270 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

Technical data

Notes

Utilization restriction

| | |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

Product properties

| | |
|----------------------|--|
| Type | Stand-alone |
| Diagnostics messages | Mains failure, phase failure Error message in the diagnostic code (bus) and display via the LED ERR on the module |
| | Motor connector not plugged in, motor temperature exceeded, thermistor line short-circuited Error message in the diagnostic code (bus) and display via the LED ERR on the module |
| | Sensor supply failure Error message in the diagnostic code (bus) and display via the LED ERR on the module |
| | Overcurrent Error message in the diagnostic code (bus) and display via the LED ERR on the module |
| | Output stage cannot be controlled Error message in the diagnostic code (bus) and display via the LED ERR on the module |
| | Module error during self test Message to the master |

Electrical properties

Supply: Module electronics

| | |
|--------------------------------|--|
| Connection method | POWER-COMBICON |
| Designation | Terminal strip X13 and X15 |
| Number of positions | 2 |
| Pg screw connection | Pg16R |
| Supply voltage | 24 V DC (U_{S1}) |
| Supply voltage range | 20 V DC ... 30 V DC (including ripple) |
| Supply current | typ. 0.17 A (at $U_{S1} = 24$ V; plus current of digital inputs/outputs) |
| Ripple | Permissible ripple $3.6 V_{pp}$ within the permissible voltage range |
| Max. current carrying capacity | 16 A |
| Derating | from 30 °C 0.1A/K |

Input data

Digital: Digital inputs

| | |
|--------------------------------|----------------------------|
| Number of inputs | 4 |
| Connection method | M12 connector, A-coded |
| Connection technology | 3-, 4-conductor |
| Number of positions | 5 |
| Input voltage | 24 V DC (U_{S1}) |
| Input voltage range "0" signal | -30 V ... 5 V (binary "0") |

| | |
|-----------------------------------|------------------------------------|
| Input voltage range "1" signal | 13 V ... 30 V (binary "1") |
| Filter time | 3 ms |
| Typical input current per channel | approx. 5 mA (for $U_{S1} = 24$ V) |

Interfaces

INTERBUS remote bus (FO)

| | |
|----------------------|-----------------|
| Connection method | F-SMA connector |
| Transmission physics | Polymer fiber |

Signaling

Diagnostic messages

| | |
|-------------|--|
| Diagnostics | Mains failure, phase failure |
| Message | Error message in the diagnostic code (bus) and display via the LED ERR on the module |

Diagnostic messages

| | |
|-------------|---|
| Diagnostics | Motor connector not plugged in, motor temperature exceeded, thermistor line short-circuited |
| Message | Error message in the diagnostic code (bus) and display via the LED ERR on the module |

Diagnostic messages

| | |
|-------------|--|
| Diagnostics | Sensor supply failure |
| Message | Error message in the diagnostic code (bus) and display via the LED ERR on the module |

Diagnostic messages

| | |
|-------------|--|
| Diagnostics | Overcurrent |
| Message | Error message in the diagnostic code (bus) and display via the LED ERR on the module |

Diagnostic messages

| | |
|-------------|--|
| Diagnostics | Output stage cannot be controlled |
| Message | Error message in the diagnostic code (bus) and display via the LED ERR on the module |

Diagnostic messages

| | |
|-------------|-------------------------------|
| Diagnostics | Module error during self test |
| Message | Message to the master |

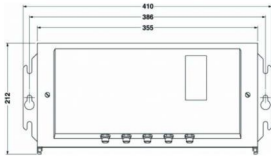
Dimensions

IBS IP 400 ME-ELR 2-3A FO - Motor starter



2734536

<https://www.phoenixcontact.com/us/products/2734536>

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 355 mm |
| Height | 180 mm |
| Depth | 100 mm |
| Drill hole spacing | 386 mm |
| Note on dimensions | Module electronics without lower part |

Material specifications

| | |
|------------------|---------------------------|
| Housing material | Sheet-steel housing, IP54 |
|------------------|---------------------------|

Mechanical properties

Technical data

| | |
|--------------------|--------|
| Drill hole spacing | 386 mm |
|--------------------|--------|

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP54 |
| Ambient temperature (operation) | -20 °C ... 55 °C (non-condensing) |
| Note | Notes on operation Line protection for the network supply line, max. 20 A. Observe derating of the POWER-COMBICON connector Notes on operation Permitted network type TN network, TT network, IT network available on request |
| Air pressure (operation) | 86 kPa ... 106 kPa (up to 2000 m above sea level) |
| Air pressure (storage/transport) | 86 kPa ... 106 kPa (up to 2000 m above sea level) |
| Ambient temperature (storage/transport) | -25 °C ... 75 °C |
| Permissible humidity (operation) | 4 % ... 100 % (non-condensing) |
| Permissible humidity (storage/transport) | 75 % (slight temporary condensation may sometimes appear on the housing) |

Mechanical test

| | |
|--|-----------------------------|
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | 10g, evaluation criterion 1 |
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | 2g, evaluation criterion 1 |

Standards and regulations

| | |
|------------------|---|
| Protection class | I (IEC 61140, EN 61140, VDE 0140-1) |
| Noise emission | Test of emitted interference, housing, in acc. with EN 50081- |

IBS IP 400 ME-ELR 2-3A FO - Motor starter



2734536

<https://www.phoenixcontact.com/us/products/2734536>

| | |
|--|------------------------------|
| | 2:1993 EN 55011:1991 class A |
|--|------------------------------|

Air clearances and creepage distances

| | |
|---------------------------------------|-----------------------------------|
| Air clearances and creepage distances | in accordance with EN 50178: 1998 |
|---------------------------------------|-----------------------------------|

Mounting

| | |
|---------------|----------------|
| Mounting type | Panel mounting |
|---------------|----------------|

IBS IP 400 ME-ELR 2-3A FO - Motor starter

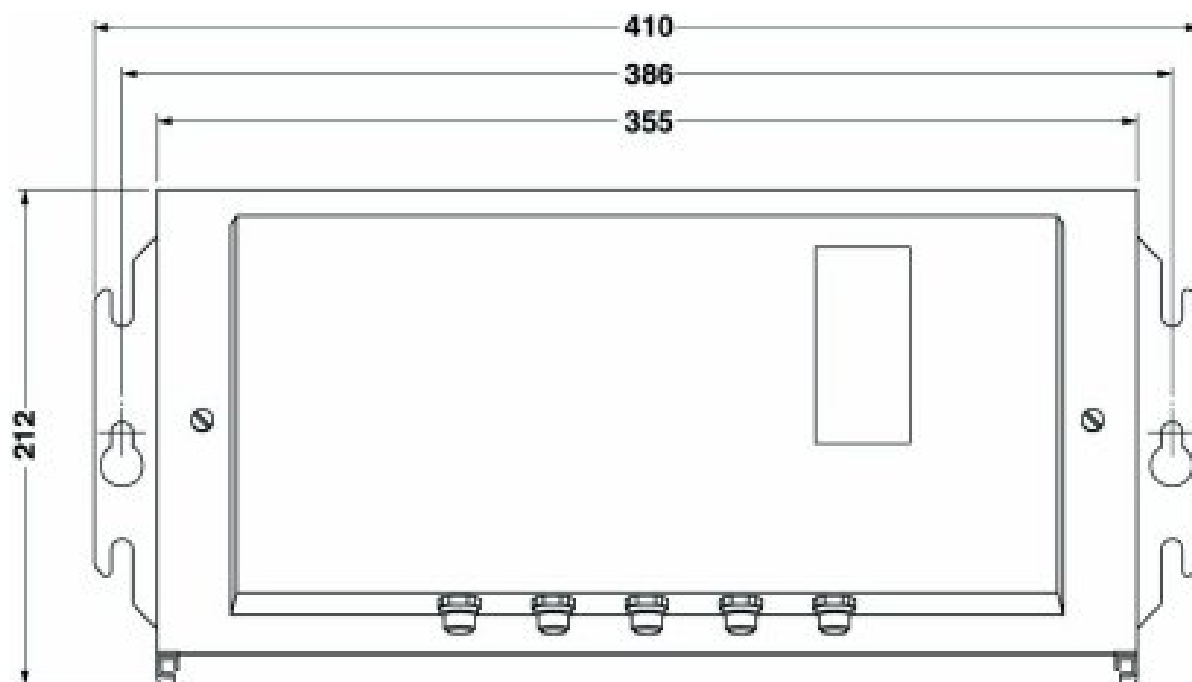


2734536

<https://www.phoenixcontact.com/us/products/2734536>

Drawings

Dimensional drawing



The figure shows the product with lower part of the housing

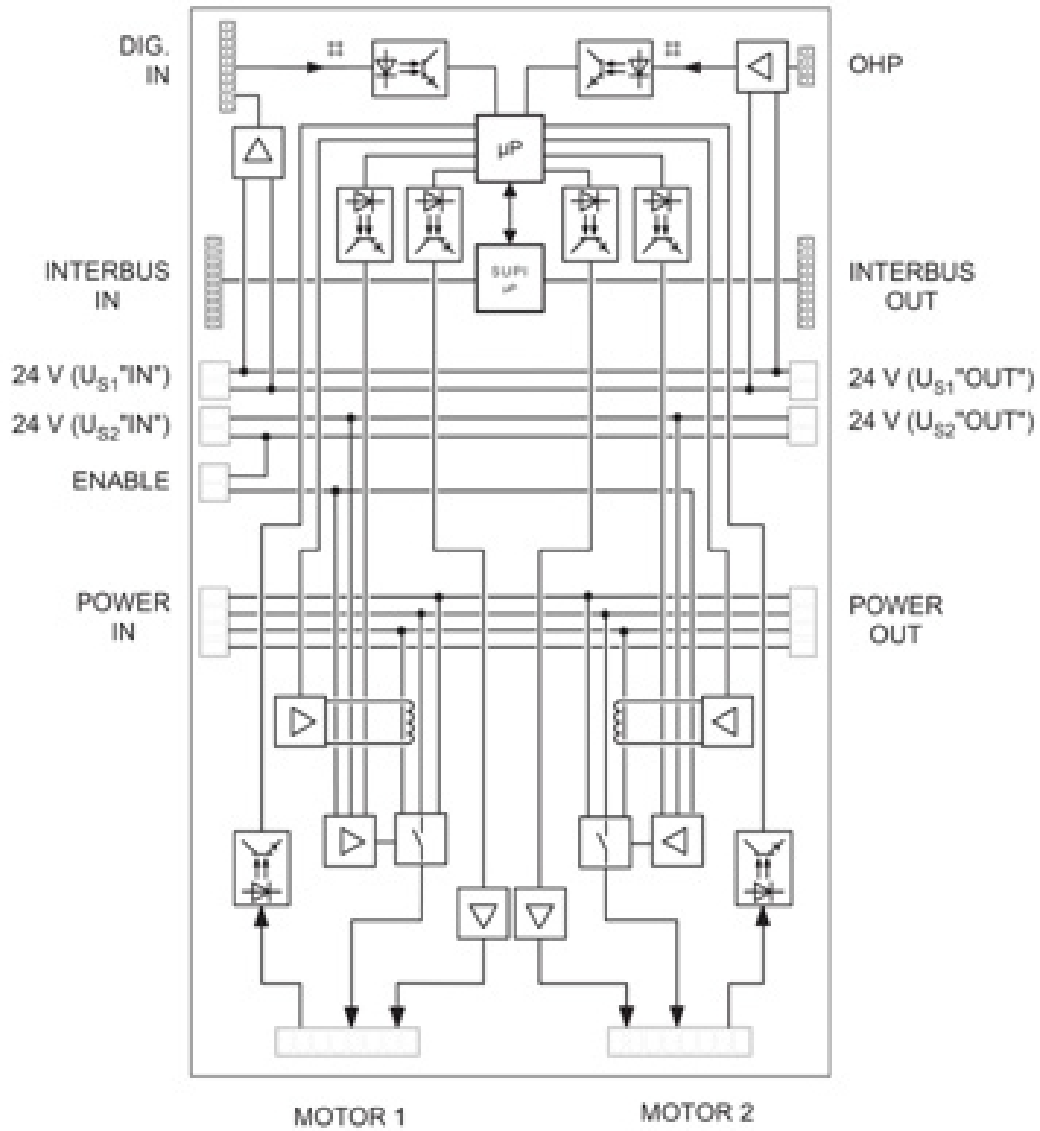
IBS IP 400 ME-ELR 2-3A FO - Motor starter



2734536

<https://www.phoenixcontact.com/us/products/2734536>

Block diagram



IBS IP 400 ME-ELR 2-3A FO - Motor starter



2734536

<https://www.phoenixcontact.com/us/products/2734536>

Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com