

Phoenix | 菲尼克斯 2866064 PDF



深圳创唯电子有限公司

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Monitoring relay - EMD-FL-3V-400 - 2866064

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Monitoring relay for monitoring 3-phase voltages of 280...520 V AC, undervoltage, window, phase sequence, phase failure, asymmetry, wide range power supply unit, 2 changeover contacts

Product Description


Increasingly higher demands are being placed on safety and system availability - across all sectors. Processes are becoming more and more complex, not only in mechanical engineering and the chemical industry, but also in plant and automation technology. Demands on power engineering are also increasing constantly. Error-free and therefore cost-effective operation can only be achieved through continuous monitoring of important network and system parameters. Electronic monitoring relays in the EMD series are available for a wide range of monitoring tasks to avoid the consequences of errors or to keep them within limits. The operating states are indicated using colored LEDs, errors that may occur can be sent to a control system via a floating contact or can shut down a part of the system. Some device versions are equipped with startup and response delays in order to briefly tolerate measured values outside the set monitoring range.

Your advantages

- Adjustable via potentiometer on the front
- Variable supply voltage range
- Adjustable asymmetry
- Adjustable response delay



Key Commercial Data

| | |
|----------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 975029 |
| GTIN | 4017918975029 |
| Custom tariff number | 8536490000 |
| Sales Key | CK4111 |

Technical data

Note

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

Dimensions

Monitoring relay - EMD-FL-3V-400 - 2866064

Technical data

Dimensions

| | |
|--------|---------|
| Width | 22.5 mm |
| Height | 90 mm |
| Depth | 113 mm |

Ambient conditions

| | |
|---|--|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| | -25 °C ... 40 °C (corresponds to UL 508) |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Permissible humidity (operation) | 15 % ... 85 % |
| Degree of protection | IP40 (Housing) |
| | IP20 (Connection terminal blocks) |
| Noise immunity | EN 61000-6-2 |

Input data

| | |
|---|--|
| Nominal input voltage U_N | 3 N ~ 400/230 V |
| Maximum temperature coefficient | < 0.1 %/K |
| Function | Undervoltage, window, asymmetry, phase sequence, phase failure |
| Min. setting range | -30 % ... 20 % (From U_N) |
| Max. setting range | -20 % ... 30 % (From U_N) |
| Min setting range of the voltage threshold value | 280 V AC ... 480 V AC |
| Max. setting range of the voltage threshold value | 320 V AC ... 520 V AC |
| Setting range for response delay | 0.1 s ... 10 s |
| Basic accuracy | ± 5 % (of scale end value) |
| Setting accuracy | ≤ 5 % (of scale end value) |
| Repeat accuracy | ≤ 2 % |
| Asymmetry | 5 % ... 25% / OFF |
| Recovery time | 500 ms |

Contact side

| | |
|---------------------------------------|--|
| Contact type | 2 floating changeover contacts |
| Maximum switching voltage | 250 V AC (in acc. with IEC 60664-1) |
| Interrupting rating (ohmic load) max. | 750 VA (3 A/250 V AC, module aligned, ≤ 5 mm spacing) |
| | 1250 VA (5 A/250 V AC, module not aligned, ≥ 5 mm spacing) |
| Output fuse | 5 A (fast-blow) |

Power supply

| | |
|----------------------|--------------------------------------|
| Supply voltage | 230 V AC |
| | 24 V DC |
| Supply voltage range | 24 V AC ... 240 V AC -15 % ... +10 % |
| | 24 V DC ... 240 V DC -20 % ... +25 % |

General

| | |
|-------------------------|--------------------------------|
| Mechanical service life | approx. 2×10^7 cycles |
|-------------------------|--------------------------------|

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Technical data

General

| | |
|-------------------------------|--|
| Operating mode | 100% operating factor |
| Mounting position | any |
| Assembly instructions | on standard DIN rail NS 35 in accordance with EN 60715 |
| Electromagnetic compatibility | Conformance with EMC directive |
| Housing insulation material | Polyamide PA, self-extinguishing |
| Color | green |

Connection data

| | |
|----------------------------------|--|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Conductor cross section solid | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.25 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 20 ... 14 |
| Tightening torque | 1 Nm |

Standards and Regulations

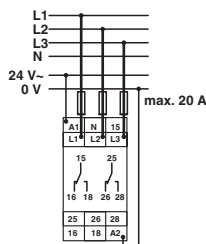
| | |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2 |
| Standards/regulations | EN 50178 |
| Rated insulation voltage | 300 V |
| Insulation | Basic insulation |
| Pollution degree | 2 |
| Overvoltage category | III |
| Low Voltage Directive | Conformance with Low Voltage Directive |

Environmental Product Compliance

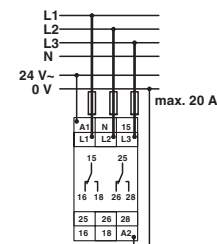
| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Connection diagram



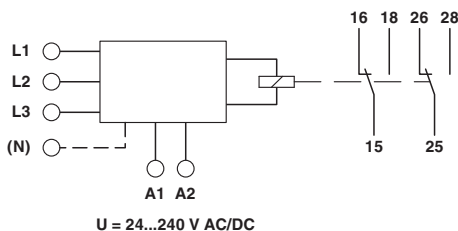
Application drawing



Connection example

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Block diagram



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27371801 |
| eCl@ss 11.0 | 27371801 |
| eCl@ss 4.0 | 27371100 |
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27371800 |
| eCl@ss 5.1 | 27371800 |
| eCl@ss 6.0 | 27371800 |
| eCl@ss 7.0 | 27371801 |
| eCl@ss 9.0 | 27371801 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001438 |
| ETIM 3.0 | EC001438 |
| ETIM 4.0 | EC001438 |
| ETIM 6.0 | EC001438 |
| ETIM 7.0 | EC001438 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121535 |
| UNSPSC 11 | 39121535 |
| UNSPSC 12.01 | 39121535 |
| UNSPSC 13.2 | 41113620 |
| UNSPSC 18.0 | 41113620 |
| UNSPSC 19.0 | 41113620 |
| UNSPSC 20.0 | 41113620 |
| UNSPSC 21.0 | 41113620 |

Approvals

Approvals

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Approvals

Approvals

UL Listed / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

Approval details

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 172140 |
|-----------|--|---|---------------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 172140 |
|------------|--|---|---------------|

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|-----|--|--|-----------------|
| EAC | | | TR_TS_D_00573_c |
|-----|--|--|-----------------|

| | | | |
|-----|--|--|-------------------------|
| EAC | | | RU*C- DE.*08.B.00010 |
|-----|--|--|-------------------------|

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| cULus Listed | | | |
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