# DATASHEET

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## MAF 330-11Y-M20

- Metal enclosure
- Long life
- 40 mm x 76 mm x 40 mm ( basic component)
- Suitable for low actuating speeds
- 1 Cable entry M 20 x 1.5
- free of silicon
- proved in power station applications
- Can be actuated from any direction
- Elasticity of the spring allows for deflection above the max. switching angle of 15°

## Data

### Ordering code

| | |
|---|---|
| Note (Delivery capacity) | Not available! |
| Product type description | MAF 330-11Y-M20 |
| Article number (order number) | 101160633 |
| EAN (European Article Number) | 4030661190945 |
| eCl@ss number, version 12.0 | 27-27-06-01 |
| eCl@ss number, version 11.0 | 27-27-06-01 |
| eCl@ss number, version 9.0 | 27-27-06-01 |
| ETIM number, version 7.0 | EC000030 |
| ETIM number, version 6.0 | EC000030 |

### Approvals - Standards

| | |
|---|---|
| Certificates | cULus |
| | CCC |

### General data

| | |
|---|---|
| Standards | EN IEC 60947-5-1 |
| Working principle | mechanical |
| Housing material | Light-alloy diecast, paint finish |
| Housing coating material | painted |

## General data

| | |
|---|---|
| Material of the rod | Metal film |
| Gross weight | 200 g |

## General data - Features

| | |
|---|---|
| Number of normally closed (NC) | 1 |
| Number of normally open (NO) | 1 |

## Mechanical data

| | |
|---|---|
| Actuating element | Spring rod lever |
| Mechanical lifetime, minimum | 30,000,000 Operations |
| Contact opening | 2 x 0.5 mm |
| Actuating speed, minimum | 1 mm/min |
| Repeat accuracy of switching points | 0.02 mm |

## Mechanical data - Connection technique

| | |
|---|---|
| Termination | Screw terminals M20 x 1.5 |
| Cable section, minimum | 1.5 $mm^2$ |
| Cable section, maximum | 2.5 $mm^2$ |
| Note | All indications including the conductor ferrules. |
| Wire cross-section | 13 AWG |

## Mechanical data - Dimensions

| | |
|---|---|
| Length of sensor | 40 mm |
| Width of sensor | 40 mm |
| Height of sensor | 184.5 mm |
| Diameter of the Rod | 8 mm |

## Ambient conditions

| | |
|---|---|
| IP Degree of protection | IP65 |
| Ambient temperature | -30 ... +90 °C |
| Restistance to shock | 50 g / 6 ms |

## Ambient conditions - Insulation values

| | |
|---|---|
| Rated insulation voltage Ui | 250 VAC |

## Ambient conditions - Insulation values

| | |
|---|---|
| Rated impulse withstand voltage Uimp | 4 kV |

## Electrical data

| | |
|---|---|
| Thermal test current | 6 A |
| Utilisation category AC-15 | 230 VAC |
| Utilisation category AC-15 | 2.5 A |
| Switching element | 1 NO contact, 1 NC contacts |
| Note (Switching element) | galvanically separated contact bridges |
| Switching principle | Snap action |
| Bounce duration, maximum | 1.5 ms |
| Switchover time, maximum | 10 ms |
| Material of the contacts, electrical | Silver |

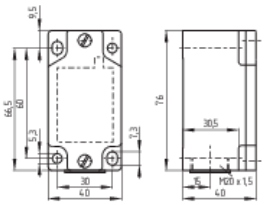
# Pictures

## Product picture (catalogue individual photo)



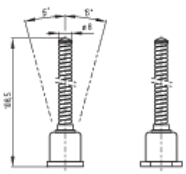
ID: km330f06
| 1.2 MB | .jpg | 1000 x 3772 Pixel
| 22.34 KB | .jpg | 93 x 350 Pixel
| 209.94 KB | .png | 210 x 792 Pixel

## Dimensional drawing basic component



ID: 1m330g01
| 107.29 KB | .jpg | 1000 x 701 Pixel
| 4.04 KB | .png | 210 x 147 Pixel

## Dimensional drawing actuator



ID: 1m330b06
| 74.76 KB | .jpg | 1000 x 703 Pixel
| 7.63 KB | .png | 210 x 148 Pixel

## Switch travel diagram



ID: km330s03
| 81.93 KB | .jpg | 1000 x 599 Pixel
| 1.42 KB | .png | 210 x 149 Pixel

## Diagram



ID: k1o1sk07
| 37.92 KB | .jpg | 1000 x 415 Pixel
| 1.9 KB | .png | 210 x 87 Pixel

## Diagram




ID: k1o1sk01
| 52.24 KB | .jpg | 1000 x 407 Pixel
| 2.58 KB | .png | 210 x 85 Pixel

## Operating principle



ID: e95tz01
| 140.29 KB | .jpg | 1000 x 2124 Pixel
| 2.81 KB | .png | 210 x 446 Pixel

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.
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