

**AMG FIM-C EX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Similar to illustration

Efficient machine and facility operation calls for fail-safe and maintenance-friendly control voltage distribution that can be installed in a time and space-saving manner.

With the new maxGUARD system, the terminal blocks (previously installed separately) for distributing potential to the outputs of the electronic load monitors become an integral part of a 24 V DC control voltage distribution system.

The innovative combination of load monitoring and potential distribution saves time during installation, increases safety against failure and reduces the amount of space required on the terminal rail by 50%.

**General ordering data**

|            |                            |
|------------|----------------------------|
| Version    | Supply module, 24 V DC     |
| Order No.  | <a href="#">2082540000</a> |
| Type       | AMG FIM-C EX               |
| GTIN (EAN) | 4050118419719              |
| Qty.       | 1 pc(s).                   |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 96.5 mm | Depth (inches)  | 3.799 inch |
| Height     | 125 mm  | Height (inches) | 4.921 inch |
| Width      | 12.2 mm | Width (inches)  | 0.48 inch  |
| Net weight | 78 g    |                 |            |

## Temperatures

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...55 °C |
|---------------------|----------------|-----------------------|----------------|

## Environmental Product Compliance

|            |                |      |                                      |
|------------|----------------|------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 | SCIP | a7fff16c-85aa-4fb0-a206-7be03f41b0b7 |
|------------|----------------|------|--------------------------------------|

## Input

|                            |                  |                                              |              |
|----------------------------|------------------|----------------------------------------------|--------------|
| Connection system          | PUSH IN          | Current consumption (full load)              | 120 mA       |
| Current consumption (idle) | 20 mA            | DC input voltage range                       | 18...30 V DC |
| Input fuse (internal)      | No               | Rated input voltage                          | 24 V DC      |
| Surge protection           | Suppressor diode | max. admissible residual ripple at the input | 100 mVpp     |

## Output

|                   |         |                  |                  |
|-------------------|---------|------------------|------------------|
| Connection system | PUSH IN | Surge protection | Suppressor diode |
|-------------------|---------|------------------|------------------|

## General data

|                          |                              |          |
|--------------------------|------------------------------|----------|
| Conformal coating        | Yes                          |          |
| Control inputs           | Reset                        |          |
| MTTF                     | According to Standard        | SN 29500 |
|                          | Operating time (hours), min. | 3.996 Mh |
|                          | Ambient temperature          | 40 °C    |
|                          | Input voltage                | 24 V     |
|                          | Duty cycle                   | 100 %    |
| Operating temperature    | -25 °C...55 °C               |          |
| Power loss, idling       | 384 mW                       |          |
| Power loss, nominal load | 500 mW                       |          |
| Surge voltage category   | III                          |          |

## Insulation coordination

|                        |     |
|------------------------|-----|
| Surge voltage category | III |
|------------------------|-----|

## Connection data (input)

|                                                       |                      |                                           |                    |
|-------------------------------------------------------|----------------------|-------------------------------------------|--------------------|
| Conductor cross-section, AWG/kcmil , max.             | 6                    | Conductor cross-section, AWG/kcmil , min. | 18                 |
| Conductor cross-section, flexible , min.              | 0.75 mm <sup>2</sup> | Conductor cross-section, rigid , max.     | 10 mm <sup>2</sup> |
| Conductor cross-section, rigid , min.                 | 0.75 mm <sup>2</sup> | Connection system                         | PUSH IN            |
| Wire connection cross section, flexible (input), max. | 16 mm <sup>2</sup>   |                                           |                    |

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## Technical data

## Connection data (output)

|                                           |                     |                                           |                      |
|-------------------------------------------|---------------------|-------------------------------------------|----------------------|
| Conductor cross-section, AWG/kcmil , max. | 12                  | Conductor cross-section, AWG/kcmil , min. | 26                   |
| Conductor cross-section, flexible , max.  | 1.5 mm <sup>2</sup> | Conductor cross-section, flexible , min.  | 0.14 mm <sup>2</sup> |
| Conductor cross-section, rigid , max.     | 1.5 mm <sup>2</sup> | Conductor cross-section, rigid , min.     | 0.14 mm <sup>2</sup> |
| Connection system                         | PUSH IN             | Number of terminals                       | 2 (I< / Alarm)       |

## Signalling

|            |                                                 |         |       |
|------------|-------------------------------------------------|---------|-------|
| LED green  | Operating voltage OK                            | Red LED | Alarm |
| Yellow LED | External reset is signalled, Alarm is signalled |         |       |

## Approvals

|                           |                  |                         |           |
|---------------------------|------------------|-------------------------|-----------|
| Certificate No. (ATEX)    | DEMKO17ATEX1870X | Certificate no. (cULus) | E258476   |
| Certificate no. (cULusEX) | E470829          | Institute (cULus)       | CULUS     |
| Institute (cULusEX)       | CULUSEX          | Institute(ATEX)         | DEMKOATEX |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | EC000897    | ECLASS 9.0  | 27-14-11-20 |
| ECLASS 9.1  | 27-14-11-20 | ECLASS 10.0 | 27-14-11-20 |
| ECLASS 11.0 | 27-14-11-20 | ECLASS 12.0 | 27-14-11-20 |

## Approvals

Approvals



|                           |            |
|---------------------------|------------|
| ROHS                      | Conform    |
| UL File Number Search     | UL Website |
| Certificate no. (cULus)   | E258476    |
| Certificate no. (cULusEX) | E470829    |

## Downloads

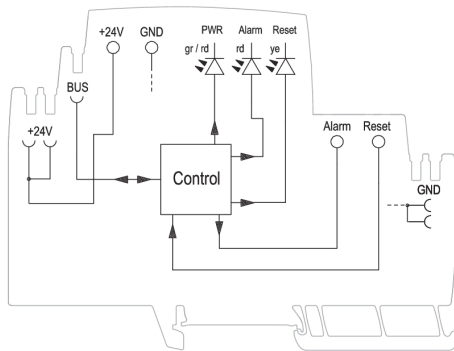
|                                             |                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a>                                 |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                           |
| Engineering Data                            | <a href="#">EPLAN</a>                                                     |
| User Documentation                          | <a href="#">Manual_maxGUARD</a><br><a href="#">Operating instructions</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                  |

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## Drawings



Schematic circuit diagram

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