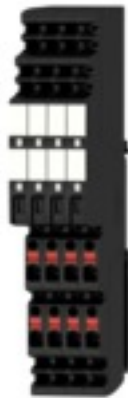


**AMG ELM-Q2222****Weidmüller Interface GmbH & Co. KG**

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         | Electronic load monitoring, 24 V DC                            |
| Order No.       | <a href="#">2080750000</a>                                     |
| Type            | AMG ELM-Q2222                                                  |
| GTIN (EAN)      | 4050118419511                                                  |
| Qty.            | 1 pc(s).                                                       |
| Delivery status | <b>This article will no longer be available in the future.</b> |
| Available until | 2022-05-19                                                     |

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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      | 24.4 mm | Width (inches)  | 0.961 inch |
| Net weight | 104 g   |                 |            |

**Temperatures**

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

**Input**

|                                              |                            |                            |                  |
|----------------------------------------------|----------------------------|----------------------------|------------------|
| Current consumption (full load)              | 4x I <sub>OUT</sub> +45 mA | Current consumption (idle) | 35 mA            |
| DC input voltage range                       | 18...30 V DC               | Input fuse (internal)      | Yes              |
| Rated input voltage                          | 24 V DC                    | Surge protection           | Suppressor diode |
| max. admissible residual ripple at the input | 100 mVpp                   |                            |                  |

**Output**

|                           |                          |                             |           |
|---------------------------|--------------------------|-----------------------------|-----------|
| Adjustable rated current  | No                       | Capacitive load             | 10,000 µF |
| Connection system         | PUSH IN                  | Rated current (per channel) | 2 A       |
| Surge protection          | Suppressor diode         | Switch-on delay             | 1 s       |
| Triggering characteristic | see characteristic curve |                             |           |

**General data**

|                        |      |                              |                                |
|------------------------|------|------------------------------|--------------------------------|
| Conformal coating      | No   | Function key                 | Activation time <3s, Reset, ON |
| Protection degree      | IP20 | Relay to activate the output | No                             |
| Surge voltage category | III  |                              |                                |

**Insulation coordination**

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

**Connection data (output)**

|                                           |                     |                                           |                      |
|-------------------------------------------|---------------------|-------------------------------------------|----------------------|
| Conductor cross-section, AWG/kcmil , max. | 12 AWG              | Conductor cross-section, AWG/kcmil , min. | 26 AWG               |
| Conductor cross-section, flexible , max.  | 2.5 mm <sup>2</sup> | Conductor cross-section, flexible , min.  | 0.14 mm <sup>2</sup> |
| Conductor cross-section, rigid , max.     | 2.5 mm <sup>2</sup> | Conductor cross-section, rigid , min.     | 0.14 mm <sup>2</sup> |
| Connection system                         | PUSH IN             | Screwdriver blade                         | 0.6 x 3.5            |

**Signalling**

|           |                          |                                                                                                             |
|-----------|--------------------------|-------------------------------------------------------------------------------------------------------------|
| LED green | Red LED                  | Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing) |
|           | Operation (failure-free) |                                                                                                             |

## AMG ELM-Q2222

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## Technical data

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002057    | ETIM 7.0    | EC002057    |
| ETIM 8.0    | EC002057    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | EC001437    | ECLASS 9.0  | 27-37-10-16 |
| ECLASS 9.1  | 27-37-10-16 | ECLASS 10.0 | 27-37-10-16 |
| ECLASS 11.0 | 27-37-10-16 | ECLASS 12.0 | 27-37-10-16 |
| ECLASS 13.0 | 27-37-10-16 | ECLASS 14.0 | 27-37-10-16 |
| ECLASS 15.0 | 27-37-10-16 |             |             |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | a7fff16c-85aa-4fb0-a206-7be03f41b0b7 |

## Approvals

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Certificate no. (cULus) | E258476                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Downloads

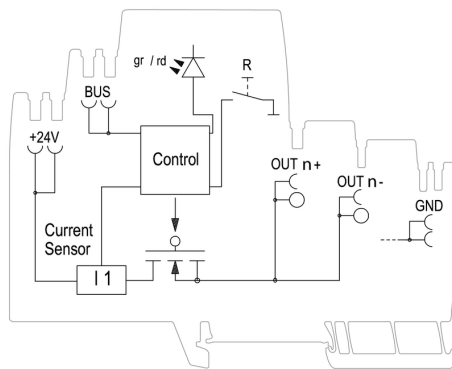
|                                             |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a><br><a href="#">UK Conformity Assessed</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</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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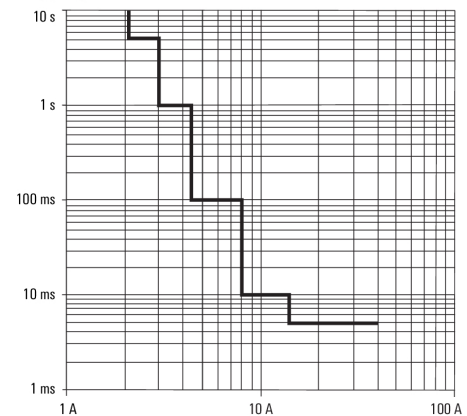
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## Drawings



Schematic circuit diagram (per channel)

Tripping characteristic normal



Tripping characteristic