

**AMG ELM-2F CL2****Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com



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, 2 A, 24 V DC |
| Order No.  | <a href="#">2491280000</a>               |
| Type       | AMG ELM-2F CL2                           |
| GTIN (EAN) | 405011850098 1                           |
| Qty.       | 1 items                                  |

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## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate no. (cULus) | E258476                    |

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 96.5 mm | Depth (inches)  | 3.7992 inch |
| Height     | 125 mm  | Height (inches) | 4.9212 inch |
| Width      | 6.1 mm  | Width (inches)  | 0.2402 inch |
| Net weight | 40 g    |                 |             |

## Temperatures

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 °C |
|---------------------|----------------|-----------------------|----------------|

## Environmental Product Compliance

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

## Input

|  |          |                                 |                  |
|--|----------|---------------------------------|------------------|
| Rated input voltage                          | 24 V DC  | Surge protection                | Suppressor diode |
| Input fuse (internal)                        | Yes      | DC input voltage range          | 18...30 V DC     |
| Current consumption (idle)                   | 25 mA    | Current consumption (full load) | IOUT +30 mA      |
| max. admissible residual ripple at the input | 100 mVpp |                                 |                  |

## Output

|                           |                          |                  |                  |
|---------------------------|--------------------------|------------------|------------------|
| Connection system         | PUSH IN                  | Surge protection | Suppressor diode |
| Switch-on delay           | 1 s                      | Capacitive load  | 4.700 µF         |
| Adjustable rated current  | No                       | Rated current    | 2 A              |
| Triggering characteristic | see characteristic curve |                  |                  |

## General data

|                          |                                |           |
|--------------------------|--------------------------------|-----------|
| Protection degree        | IP20                           |           |
| Surge voltage category   | III                            |           |
| MTTF                     | According to Standard          | SN 29500  |
|                          | Operating time (hours), min.   | 2540000 h |
|                          | Ambient temperature            | 40 °C     |
|                          | Input voltage                  | 24 V      |
|                          | Output power                   | 48 W      |
|                          | Duty cycle                     | 100 %     |
| Conformal coating        | No                             |           |
| Function key             | Activation time <3s, Reset, ON |           |
| Power loss, idling       | 444 mW                         |           |
| Power loss, nominal load | 592 mW                         |           |

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## Technical data

Relay to activate the output No

### Insulation coordination

Surge voltage category III

### Connection data (output)

|   |                     |   |                      |
|---|---------------------|---|----------------------|
| Connection system                         | PUSH IN             | Number of terminals                       | 2 (+ / -)            |
| 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> |
| Screwdriver blade                         | 0.6 x 3.5           |   |                      |

### Signalling

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

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC003538    | ETIM 9.0    | EC003538    |
| ETIM 10.0   | EC003538    | ECLASS 14.0 | 27-37-10-16 |
| ECLASS 15.0 | 27-37-10-16 |             |             |

AMG ELM-2F CL2

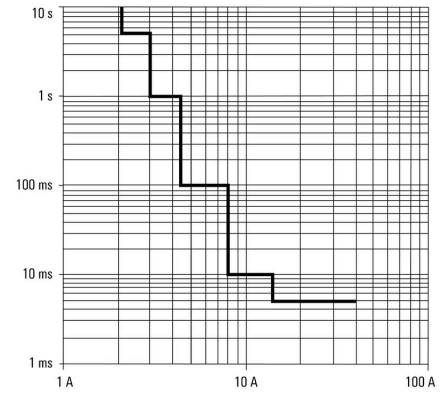
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Drawings

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Tripping characteristic normal



## AMG ELM-2F CL2

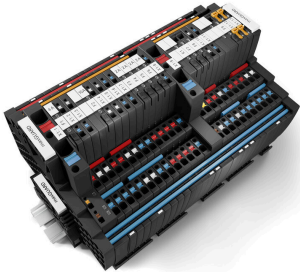
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## Accessories

### Standard version for machine construction



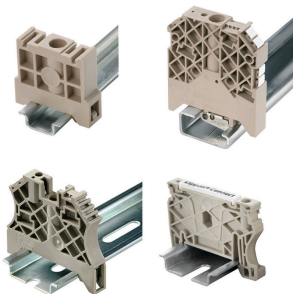
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The innovative combination of load monitoring and potential distribution saves time during installation, increases safety against failure and reduces the amount of space required on the terminal rail by 50%.

### General ordering data

|            |                            |                       |
|------------|----------------------------|-----------------------|
| Type       | AMG DIS                    | Version               |
| Order No.  | <a href="#">2123050000</a> | Potential distributor |
| GTIN (EAN) | 4050118425413              |                       |
| Qty.       | 10 ST                      |                       |
| Type       | AMG PP                     | Version               |
| Order No.  | <a href="#">2123000000</a> | Partition plate       |
| GTIN (EAN) | 4050118425338              |                       |
| Qty.       | 40 ST                      |                       |
| Type       | AMG PD                     | Version               |
| Order No.  | <a href="#">2122920000</a> | Potential distributor |
| GTIN (EAN) | 4050118425321              |                       |
| Qty.       | 10 ST                      |                       |
| Type       | AMG OD                     | Version               |
| Order No.  | <a href="#">2122910000</a> | Potential distributor |
| GTIN (EAN) | 4050118425185              |                       |
| Qty.       | 10 ST                      |                       |
| Type       | AMG MD                     | Version               |
| Order No.  | <a href="#">2122930000</a> | Potential distributor |
| GTIN (EAN) | 4050118425192              |                       |
| Qty.       | 10 ST                      |                       |

### End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

### General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | WEW 35/2 V0 GF SW          | Version  |
| Order No.  | <a href="#">1479000000</a> | End bracket, black, TS 35, V-0, Wemid, Width: 8 mm, 130 °C |
| GTIN (EAN) | 4050118286779              |  |
| Qty.       | 50 ST                      |  |

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### Standard version for machine construction



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### General ordering data

|            |                            |                   |  |
|------------|----------------------------|-------------------|--|
| Type       | AMG EP 20 10               | Version           |  |
| Order No.  | <a href="#">2495380000</a> | Fastening element |  |
| GTIN (EAN) | 4050118505306              |                   |  |
| Qty.       | 30 ST                      |                   |  |

### Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

### General ordering data

|            |                            |  |  |
|------------|----------------------------|--|--|
| Type       | WS 10/6 M MC NE WS         | Version  |  |
| Order No.  | <a href="#">1818400000</a> | WS, Terminal marker, 10 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, |  |
| GTIN (EAN) | 4032248310876              | Allen-Bradley, white   |  |
| Qty.       | 600 ST                     |  |  |

### Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

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## Accessories

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | ZQV 4N/2                   | Version  |
| Order No.  | <a href="#">1527930000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:  |
| GTIN (EAN) | 4050118332766              | 2, Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm              |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/2 BL                | Version  |
| Order No.  | <a href="#">1528040000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 2, |
| GTIN (EAN) | 4050118332773              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm                 |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/2 RD                | Version  |
| Order No.  | <a href="#">2460450000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 2,  |
| GTIN (EAN) | 4050118476149              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm                 |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/3                   | Version  |
| Order No.  | <a href="#">1527940000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:  |
| GTIN (EAN) | 4050118332865              | 3, Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm               |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/3 BL                | Version  |
| Order No.  | <a href="#">1528080000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 3, |
| GTIN (EAN) | 4050118333008              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm                  |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/3 RD                | Version  |
| Order No.  | <a href="#">2460810000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 3,  |
| GTIN (EAN) | 4050118476231              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm                  |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/4                   | Version  |
| Order No.  | <a href="#">1527970000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:  |
| GTIN (EAN) | 4050118332889              | 4, Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm             |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/4 BL                | Version  |
| Order No.  | <a href="#">1528120000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 4, |
| GTIN (EAN) | 4050118332872              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm                |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/4 RD                | Version  |
| Order No.  | <a href="#">2460800000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 4,  |
| GTIN (EAN) | 4050118476224              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm                |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/5                   | Version  |
| Order No.  | <a href="#">1527980000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:  |
| GTIN (EAN) | 4050118332759              | 5, Pitch in mm (P): 6.10, Insulated: Yes, Width: 28.2 mm             |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/5 BL                | Version  |
| Order No.  | <a href="#">1528140000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 5, |
| GTIN (EAN) | 4050118333015              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 28.2 mm                |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/5 RD                | Version  |
| Order No.  | <a href="#">2460790000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 5,  |
| GTIN (EAN) | 4050118476217              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 28.2 mm                |
| Qty.       | 60 ST                      |  |
| Type       | ZQV 4N/6                   | Version  |
| Order No.  | <a href="#">1527990000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:  |
| GTIN (EAN) | 4050118332919              | 6, Pitch in mm (P): 6.10, Insulated: Yes, Width: 34.3 mm             |
| Qty.       | 20 ST                      |  |

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|            |                            |   |
|------------|----------------------------|---|
| Type       | ZQV 4N/6 BL                | Version   |
| Order No.  | <a href="#">1528170000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 6,  |
| GTIN (EAN) | 4050118332926              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 34.3 mm                 |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/6 RD                | Version   |
| Order No.  | <a href="#">2460780000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 6,   |
| GTIN (EAN) | 4050118476200              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 34.3 mm                 |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/7                   | Version   |
| Order No.  | <a href="#">1528020000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:   |
| GTIN (EAN) | 4050118332780              | 7, Pitch in mm (P): 6.10, Insulated: Yes, Width: 40.4 mm              |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/7 BL                | Version   |
| Order No.  | <a href="#">1528180000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 7,  |
| GTIN (EAN) | 4050118333114              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 40.4 mm                 |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/7 RD                | Version   |
| Order No.  | <a href="#">2460770000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 7,   |
| GTIN (EAN) | 4050118476194              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 40.4 mm                 |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/8                   | Version   |
| Order No.  | <a href="#">1528030000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:   |
| GTIN (EAN) | 4050118332841              | 8, Pitch in mm (P): 6.10, Insulated: Yes, Width: 46.5 mm              |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/8 BL                | Version   |
| Order No.  | <a href="#">1528190000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 8,  |
| GTIN (EAN) | 4050118332858              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 46.5 mm                 |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/8 RD                | Version   |
| Order No.  | <a href="#">2460760000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 8,   |
| GTIN (EAN) | 4050118476187              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 46.5 mm                 |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/9                   | Version   |
| Order No.  | <a href="#">1528070000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:   |
| GTIN (EAN) | 4050118332797              | 9, Pitch in mm (P): 6.10, Insulated: Yes, Width: 52.6 mm              |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/9 BL                | Version   |
| Order No.  | <a href="#">1528220000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 9,  |
| GTIN (EAN) | 4050118333107              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 52.6 mm                 |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/9 RD                | Version   |
| Order No.  | <a href="#">2460750000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 9,   |
| GTIN (EAN) | 4050118476170              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 52.6 mm                 |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/10                  | Version   |
| Order No.  | <a href="#">1528090000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:   |
| GTIN (EAN) | 4050118332896              | 10, Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm             |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/10 BL               | Version   |
| Order No.  | <a href="#">1528230000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 10, |
| GTIN (EAN) | 4050118333138              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm                 |
| Qty.       | 20 ST                      |   |

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## Accessories

|            |                            |   |
|------------|----------------------------|---|
| Type       | ZQV 4N/10 RD               | Version   |
| Order No.  | <a href="#">2460740000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 10,    |
| GTIN (EAN) | 4050118476163              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm                   |
| Qty.       | 20 ST                      |   |
| Type       | ZQV 4N/50                  | Version   |
| Order No.  | <a href="#">1528130000</a> | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles: 50, |
| GTIN (EAN) | 4050118332902              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 303.7 mm                  |
| Qty.       | 5 ST                       |   |
| Type       | ZQV 4N/50 BL               | Version   |
| Order No.  | <a href="#">1528240000</a> | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 50,   |
| GTIN (EAN) | 4050118333121              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 303.7 mm                  |
| Qty.       | 5 ST                       |   |
| Type       | ZQV 4N/50 RD               | Version   |
| Order No.  | <a href="#">2460730000</a> | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 50,    |
| GTIN (EAN) | 4050118476156              | Pitch in mm (P): 6.10, Insulated: Yes, Width: 303.7 mm                  |
| Qty.       | 5 ST                       |   |

## Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

## General ordering data

|            |                            |                            |
|------------|----------------------------|----------------------------|
| Type       | SDIS SL 0.6X3.5X100        | Version                    |
| Order No.  | <a href="#">1274660000</a> | Screwdriver, Mounting tool |
| GTIN (EAN) | 4050118072631              |                            |
| Qty.       | 1 ST                       |                            |