

**AMG ELM-18****Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26  
D-32758 Detmold  
Germany

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, 18 A, 24 V DC
Order No.	<a href="#">2859800000</a>
Type	AMG ELM-18
GTIN (EAN)	4064675573937
Qty.	1 items

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

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	12.2 mm	Width (inches)	0.4803 inch
Net weight	60 g		

## Temperatures

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

## Input

Rated input voltage	24 V DC	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	Switch-on delay	1 s
Capacitive load	50 mF	Adjustable rated current	Yes
Rated current	18 A	Rated current (per channel)	18 A
Triggering characteristic	see characteristic curve		

## General data

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

## Insulation coordination

Surge voltage category	III
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## Technical data

### Connection data (output)

Connection system	PUSH IN	Number of terminals	4 (++) / -)
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), Early warning: I Out > 90% I Rated (flashing)	Red LED	Load monitoring has disconnected, Load monitoring has triggered (flashing), Internal error (rapid flashing)
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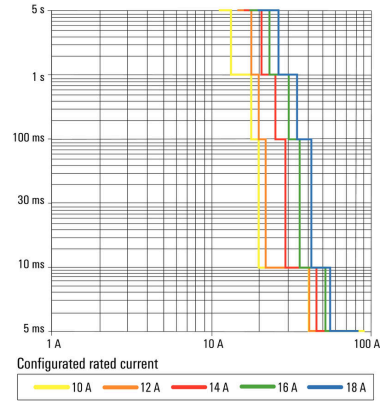
### Classifications

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		



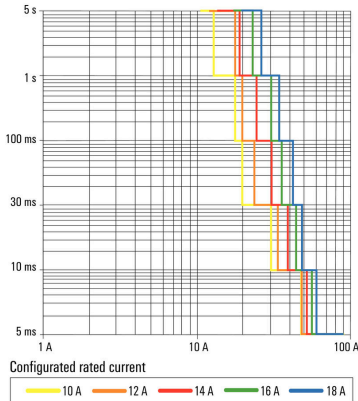
Schematic circuit diagram

Tripping characteristic normal



Tripping characteristic

Tripping characteristic lag



Slow tripping characteristic