

**AMG ELM-1 LIM CL2 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	Electronic fuse, 1 A, 24 V DC
Order No.	<a href="#">2838530000</a>
Type	AMG ELM-1 LIM CL2 EX
GTIN (EAN)	4064675444220
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	6.1 mm	Width (inches)	0.24 inch
Net weight	60 g		

## Temperatures

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

Current consumption (full load)	$I_{OUT} + 30 \text{ mA}$	Current consumption (idle)	25 mA
DC input voltage range	18...32 V (commissioning)	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	Yes	Connection system	PUSH IN
Rated current	1 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
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## 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	Number of terminals	2 (+ / -)
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)		

## Approbations

Certificate No. (ATEX)	DEMKO17ATEX1870X	Certificate no. (cULus)	E258476
Institute (cULus)	CULUS	Institute(ATEX)	DEMKOATEX

Creation date July 5, 2024 2:45:45 AM CEST

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Classifications**

ETIM 6.0	EC002057	ETIM 7.0	EC002057
ETIM 8.0	EC002057	ETIM 9.0	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

**Environmental Product Compliance**

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

**Approvals**

Approvals



UL File Number Search	UL Website
Certificate no. (cULus)	E258476

**Downloads**

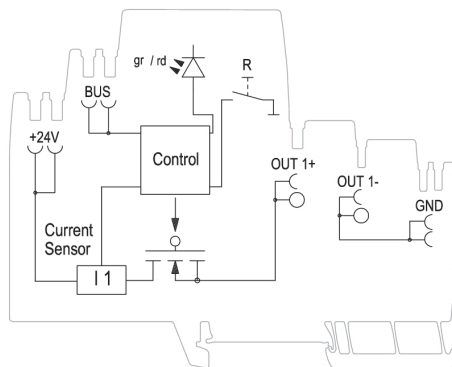
Approval/Certificate/Document of Conformity	<a href="#">MaxGuard AMG ELM EX UL 61010-1 .pdf</a> <a href="#">MaxGuard AMG ELM EX UL C1D2 .pdf</a> <a href="#">MAXGuard AMG ELM-1 LIM CL2 EX UL 2367</a> <a href="#">MaxGuard EX ATEX .pdf</a>
Product Change Notification	<a href="#">Release-Notes</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

## AMG ELM-1 LIM CL2 EX

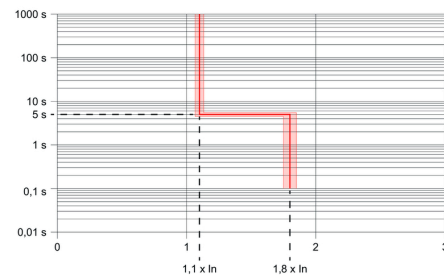
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# Drawings



Schematic circuit diagram



Tripping characteristic