

**maxGUARD
AMG ELM-10F****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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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

Type	AMG ELM-10F
Order No.	2080650000
Version	Electronic load monitoring, 10.00 A, 24 V DC
GTIN (EAN)	4050118419320
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	12.2 mm	Width (inches)	0.48 inch
Height	125 mm	Height (inches)	4.921 inch
Depth	96.5 mm	Depth (inches)	3.799 inch
Net weight	57 g		

Temperatures

Operating temperature	-25 °C...55 °C	Storage temperature	-40 °C...85 °C
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Probability of failure

MTTF	350 Years
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Input

Current consumption (full load)	I _{OUT} +30 mA	Current consumption (idle)	25 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

Capacitive load	20,000 µF	Connection system	PUSH IN
Rated current	10 A	Surge protection	Suppressor diode
Switch-on delay	1 s	Triggering characteristic	see characteristic curve
adjustable rated current	No		

General data

Function key	Activation time < 3s, Reset, ON	Operating temperature	-25 °C...55 °C
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	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	2.5 mm ²	Conductor cross-section, flexible , min.	0.14 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	0.14 mm ²
Connection system	PUSH IN	Number of terminals	4 (++) / (-)
Screwdriver blade	0.6 x 3.5		

Signalling

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

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Technical data**Approvals**

Institute (cULus)



Certificate no. (cULus)

E258476

Classifications

ETIM 6.0	EC002057	eClass 6.2	27-37-15-02
eClass 9.1	27-37-10-16		

Approvals

Approvals



ROHS

Conform

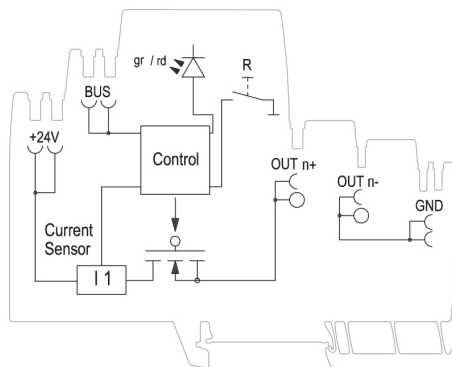
Downloads

Brochure/Catalogue	CAT 1 TERM 16/17 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
User Documentation	Operating instructions

maxGUARD AMG ELM-10F

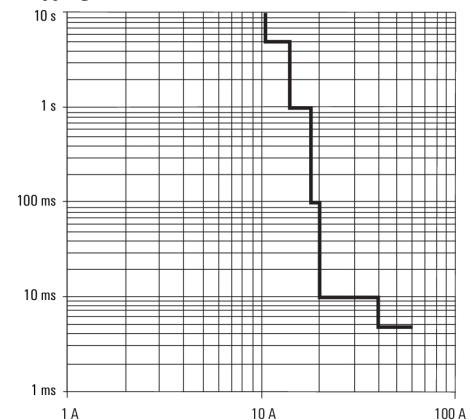
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Drawings



Schematic circuit diagram

Tripping characteristic normal



Tripping characteristic