

AMG ELM-1F**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, 1 A, 24 V DC
Order No.	2080420000
Type	AMG ELM-1F
GTIN (EAN)	4050118419412
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
Net weight	40 g	Width	6.1 mm
Width (inches)	0.24 inch		

Temperatures

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

MTTF	350 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Current consumption (full load)	$I_{OUT} + 30 \text{ mA}$	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	10,000 μF	Connection system	PUSH IN
Rated current	1 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
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	2 (+ / -)

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Technical data**Signalling**

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

Approvals

Certificate no. (cULus)	E258476	Institute (cULus)	CULUS
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Classifications

ETIM 6.0	EC002057	ETIM 7.0	EC002057
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

Approvals

Approvals



ROHS	Conform
UL File Number Search	E258476

Downloads

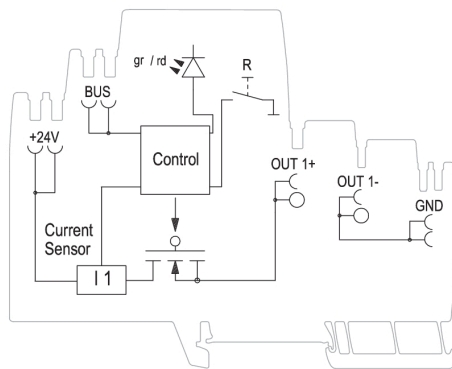
Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Product Change Notification	Release-Notes
User Documentation	Manual_maxGUARD Operating instructions

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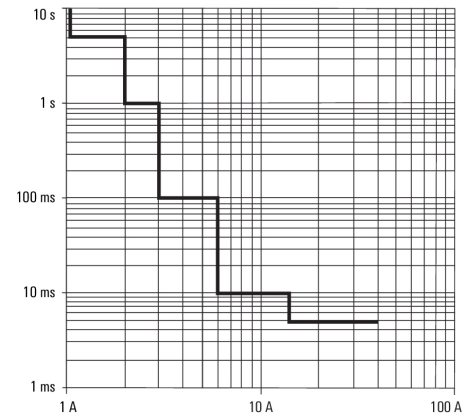
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Drawings



Schematic circuit diagram

Tripping characteristic normal



Tripping characteristic