

**AMG ELM-1F EX****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.	<a href="#">2082040000</a>
Type	AMG ELM-1F EX
GTIN (EAN)	4050118419580
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
Certificate no. (cULusEX)	E470829

### 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
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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	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	10,000 µF
Adjustable rated current	No	Rated current	1 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.	3063000 h
	Ambient temperature	40 °C
	Input voltage	24 V
	Output power	24 W

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	Duty cycle	100 %
Conformal coating	Yes	
Function key	Activation time <3s, Reset, ON	
Power loss, idling	415 mW	
Power loss, nominal load	469 mW	
Relay to activate the output	No	

### Insulation coordination

Surge voltage category	III
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### 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)
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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		

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Drawings

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Schematic circuit diagram

Tripping characteristic normal



Tripping characteristic