

AMG ELM-6 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, 6 A, 24 V DC
Order No.	2082000000
Type	AMG ELM-6 EX
GTIN (EAN)	4050118419450
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	40 g		

Temperatures

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

Adjustable rated current	Yes	Capacitive load	15,000 µF
Connection system	PUSH IN	Rated current	6 A
Surge protection	Suppressor diode	Switch-on delay	1 s
Triggering characteristic	see characteristic curve		

General data

Conformal coating	Yes		
Function key	Activation time <3s, Reset, ON		
MTTF	According to Standard	SN 29500	
	Operating time (hours), min.	2,490,000 h	
	Ambient temperature	40 °C	
	Input voltage	24 V	
	Output power	144 W	
	Duty cycle	100 %	
Power loss, idling	492 mW		
Power loss, nominal load	1,128 mW		
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 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 (+ / -)
Screwdriver blade	0.6 x 3.5		

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Technical data**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)
Transistor output, positive-switching	Pre-warning, Alarm		

Classifications

ETIM 6.0	EC002057	ETIM 7.0	EC002057
ETIM 8.0	EC002057	ETIM 9.0	EC001437
ETIM 10.0	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	ECLASS 14.0	27-37-10-16
ECLASS 15.0	27-37-10-16		

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

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Technical data

Approvals

Approvals



Approvals MAMID

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Certificate no. (cULusEX)	E470829

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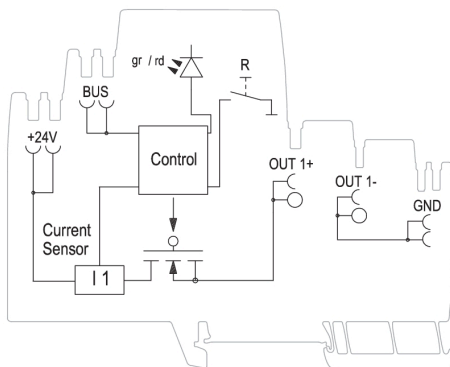
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Engineering Data	CAD data – STEP
Product Change Notification	Release-Notes
User Documentation	Manual maxGUARD Operating instructions
Catalogues	Catalogues in PDF-format

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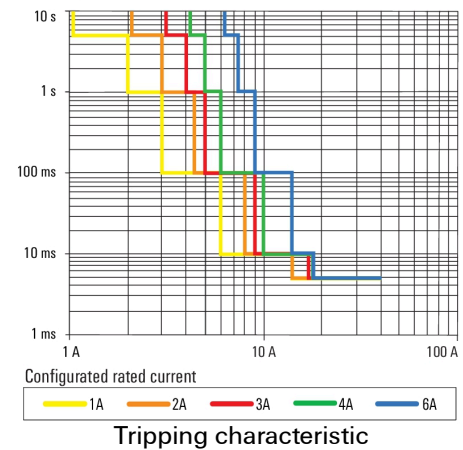
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Drawings



Schematic circuit diagram

Tripping characteristic normal



Tripping characteristic lag

