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Data sheet

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...55 °C

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

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	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
adjustable rated current	Yes		

General data

Conformal coating	Yes	
Function key	Activation time < 3s, Reset, ON	
MTTF	According to Standard	SN 29500
	Operating time (hours), min.	2.49 Mh
	Ambient temperature	40 °C
	Input voltage	24 V
	Output power	144 W
	Duty cycle	100 %
Operating temperature	-25 °C...55 °C	
Power loss, idling	492 mW	
Relay to activate the output	No	
Surge voltage category	III	

Insulation coordination

Surge voltage category	III

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	2.5 mm²	Conductor cross-section, flexible , min.	0.14 mm²
Conductor cross-section, rigid , max.	2.5 mm²	Conductor cross-section, rigid , min.	0.14 mm²
Connection system	PUSH IN	Number of terminals	2 (+ / -)

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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)

Approvals

Certificate No. (ATEX)	DEMKO17ATEX1870X	Certificate no. (cULus)	E258476
Certificate no. (cULusEX)	E470829	Institute (cULus)	CULUS
Institute (cULusEX)	CULUSEX	Institute(ATEX)	DEMKOATEX

Classifications

ETIM 6.0	EC002057	ETIM 7.0	EC002057
ETIM 8.0	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	CAD data – STEP
Engineering Data	EPLAN
Product Change Notification	Release-Notes
User Documentation	Manual_maxGUARD Operating instructions
Catalogues	Catalogues in PDF-format

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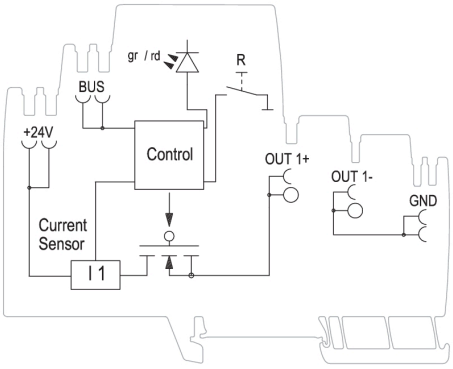
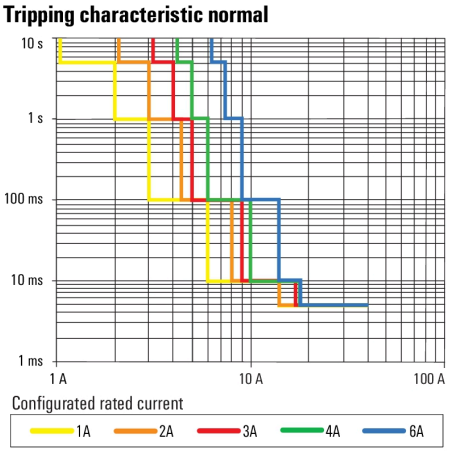
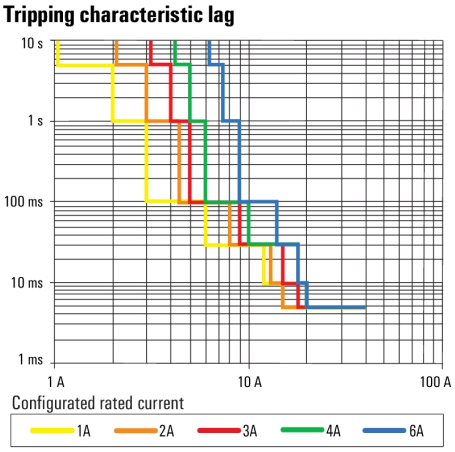
Drawings



Schematic circuit diagram



Tripping characteristic



Slow tripping characteristic

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ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS
Est.1899

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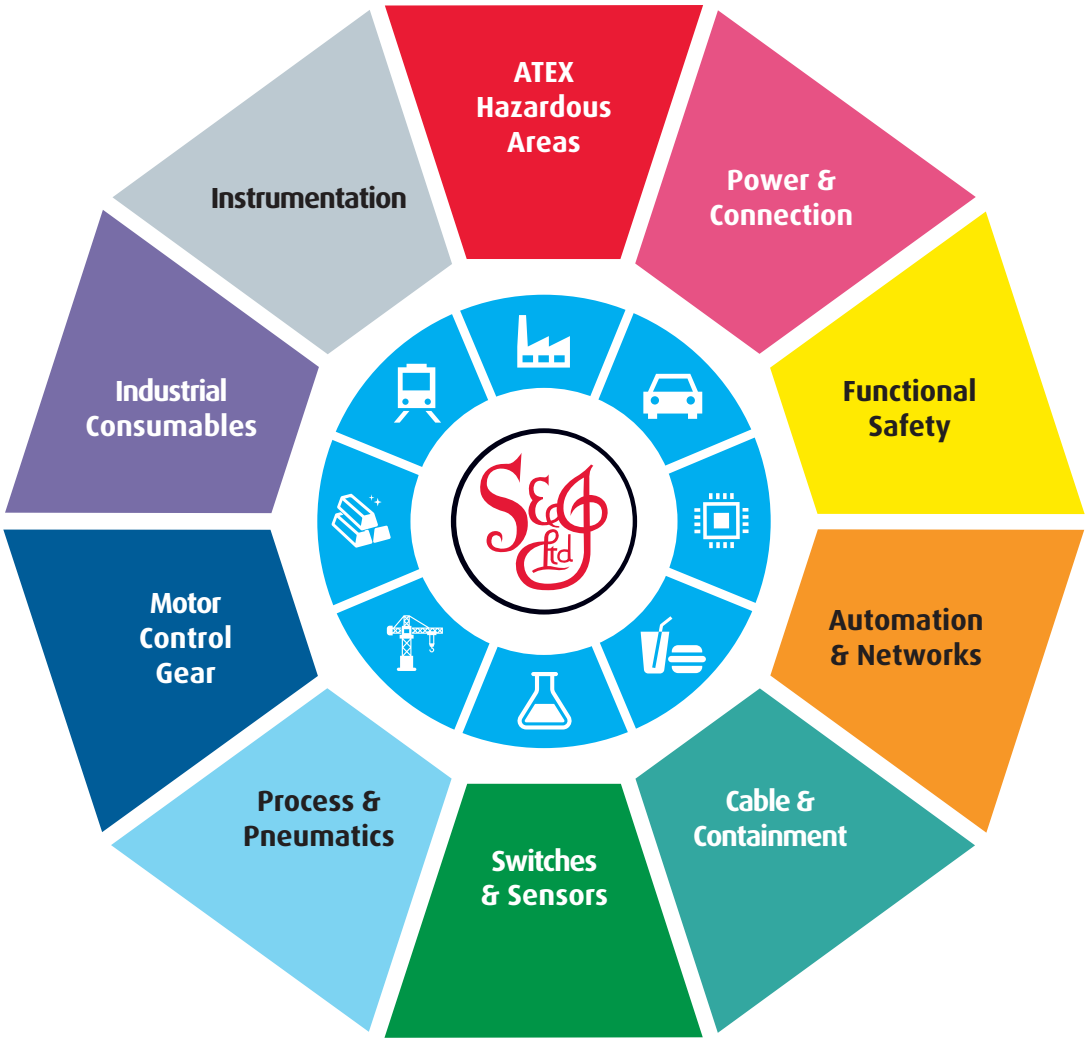

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