maxGUARD
AMG ELM-Q6666

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
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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-Q6666
Order No.	2080920000
Version	Electronic load monitoring, 24 V DC
GTIN (EAN)	4050118419559
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	24.4 mm	Width (inches)	0.961 inch
Height	125 mm	Height (inches)	4.921 inch
Depth	96.5 mm	Depth (inches)	3.799 inch
Net weight	104 g		

Temperatures

Operating temperature, max.	55 °C	Operating temperature, min.	-25 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-40 °C
Operating temperature	-25 °C...55 °C	Storage temperature	-40 °C...85 °C

Probability of failure

MTTF	130 Years

Input

Current consumption (full load)	4x I_{OUT} +45 mA	Current consumption (idle)	35 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 (per channel)	6 A	Surge protection	Suppressor diode
Switch-on delay	1 s	Triggering characteristic	see characteristic curve
adjustable rated current	No		

General data

Conformal coating	No	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

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	Screwdriver blade	0.6 x 3.5

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Signalling

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

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

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	EPLAN, WSCAD, Zuken E3.S
User Documentation	Manual_maxGUARD Operating instructions

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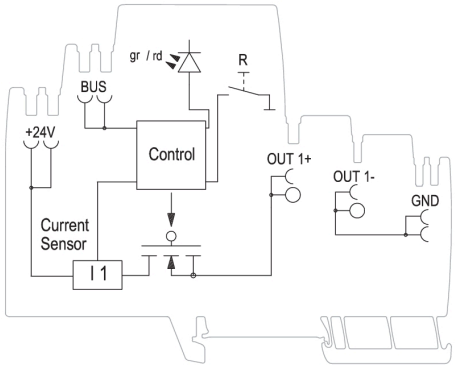
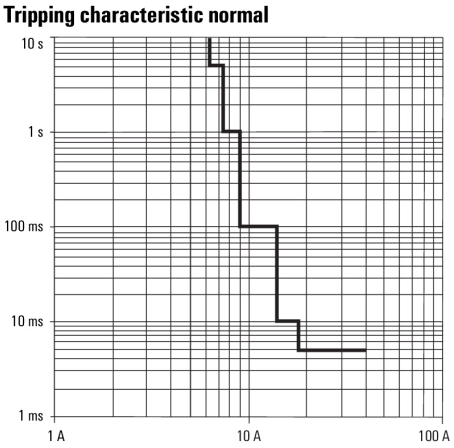
Drawings



Schematic circuit diagram (per channel)



Tripping characteristic