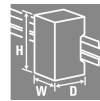


TGD ELM-6

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



Modern machines and plants require load monitoring systems capable of communication. topGUARD - the IO-Link-capable load monitoring system - offers remote control options, full data transparency and reliable protection of the 24-volt system voltage. topGUARD is the ideal complement to IO-Link capable PROtop power supplies from innovative power management systems. It follows the innovative approach to integrated potential distribution, which saves space and time in device installation. A communication module simply needs to be connected and an IODD file integrated in order to carry out parameterisation and control, and to provide all operating data.

General ordering data

Version	Electronic load monitoring
Order No.	2624980000
Type	TGD ELM-6
GTIN (EAN)	4050118689426
Qty.	1 items

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E258476

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	44 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
REACH SVHC	Lead 7439-92-1
SCIP	925510b1-0d14-47d7-86d9-90447b22ecd3

Input

Rated input voltage	24 V DC	Input fuse (internal)	Yes
DC input voltage range	18...30 V DC	max. admissible residual ripple at the input	100 mVpp

Output

Connection system	PUSH IN	Capacitive load	15,000 µF
Adjustable rated current	Yes	Rated current	6 A
Rated current (per channel)	6 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.	2505000 h
	Ambient temperature	40 °C
	Input voltage	24 V
	Output power	144 W
	Duty cycle	100 %
Conformal coating	No	
Function key	Activation time <3s, Reset, ON	
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 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
Screwdriver blade	0.6 x 3.5		

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)
Yellow LED	Address is assigned, Address is being assigned (flashing)		

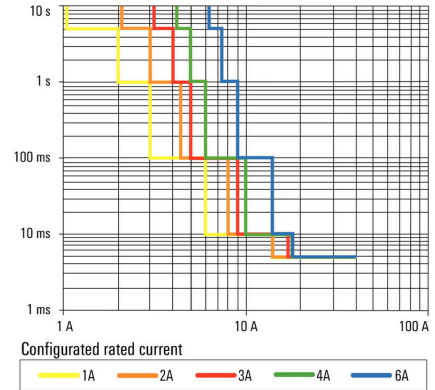
Classifications

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		



Schematic circuit diagram

Tripping characteristic normal



Tripping characteristic

Tripping characteristic lag



Slow tripping characteristic