

Brake chopper

mcER-L42

Article number: 1515431

 Certification:  *1
E475093


Picture similar

Technical data

Power	
Electronic supply voltage U_p^{*2}	9..60 V
Electronic current consumption	typ. 10 mA
Max. braking peak current (certified UL)*3	24 A @ 60 V
Max. braking continuous current (certified UL)*3	0.15 A
On-Time / Off-Time (certified UL)*3	approx. 400 ms / 90 s @ 24 A
Braking resistor	
Adjustable braking voltage U_{br}	18..60 V
Switch-on threshold	$U_{br} \pm 4\% 1.7 V$
Switch-off threshold	$U_{br} \pm 4\% 0.7 V$
Braking resistor	2.5 Ohm (integrated)
Maximum duty cycle	100 %
Integrated electrolytic capacitors	400 uF
Mechanical	
Size LxWxH	110 x 41 x 77 mm
Weight	380 g
Environment	
Protection class	IP20
Ambient temperature (operation) (certified UL)	-25..40 °C
Ambient temperature (operation) (not certified)	-25..70 °C
Ambient temperature (storage)	-25..85 °C
Rel. humidity (non-condensing)	5..90 %
Error recognition	
Short circuit braking resistor	yes
Braking resistor is missing / defective	yes
Overtemperature electronic	yes
Overtemperature braking resistor	yes

Digital output	
Number	1 (/Error)
Continuous output current	typ. 10 mA
Load	resistive
Output voltage	Up (24V max.)
Signal type	positive switching

*1 The certified performance data must be observed (see UL Instruction Note)

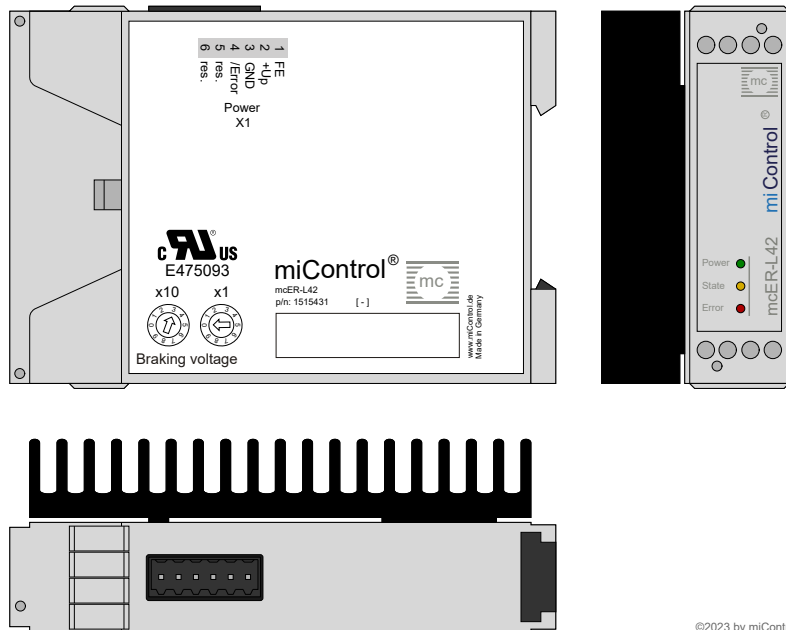
*2 No reverse polarity protection, the destruction limit is at overvoltage of $\geq 100V$

*3 ambient temperature 40 °C

Additional technical data are available in mcManual.


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Scheme



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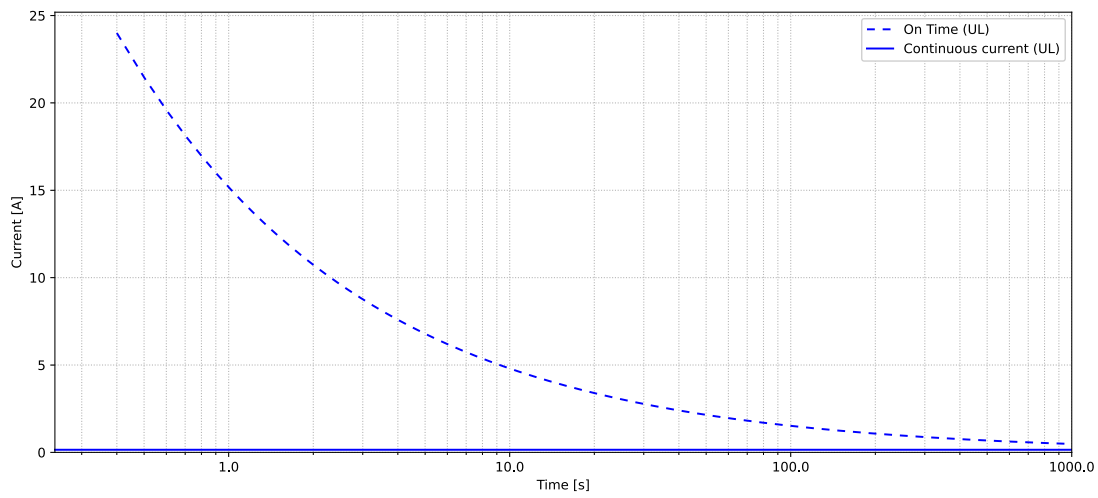
Terminal assignment

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	/Error	Error output
5	res.	Reserved
6	res.	Reserved

Diagrams

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ambient temperature 40°C
power supply voltage Up 60V
continuous current 0.15A

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