


# Brake chopper

## mcER-L42

Article number: 1515431

 Certification: 


Picture similar

### Technical data

Absolute maximum rating	
Voltage (destruction limit) Up no polarity reversal protection	100 V
Power	
Electronic supply voltage Up	9..60 V
Electronic current consumption	typ. 10 mA
Max. braking peak current (certified UL)*2	24 A @ 60 V
Max. braking continuous current (certified UL)*2	0.15 A
On-Time / Off-Time (certified UL)*2	approx. 400 ms / 90 s @ 24 A
Braking resistor	
Adjustable braking voltage Ubr	18..60 V
Switch-on threshold	Ubr +/- 4% 1.7 V
Switch-off threshold	Ubr +/- 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 %

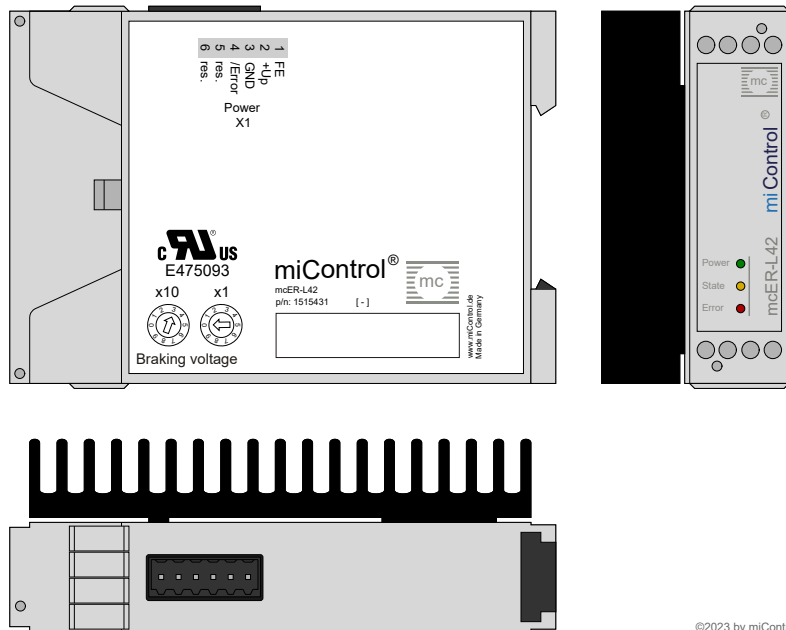
Error recognition	
Short circuit braking resistor	yes
Braking resistor is missing / defective	yes
Overtemperature electronic	yes
Overtemperature braking resistor	yes
Digital output	
Number	1 (/Error)
Continuous output current	typ. 10 mA
Load	resistive
Output voltage	Up (24V max.)
Signal type	positive switching

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

\*2 ambient temperature 40 °C

Additional technical data are available in mcManual.

## Scheme



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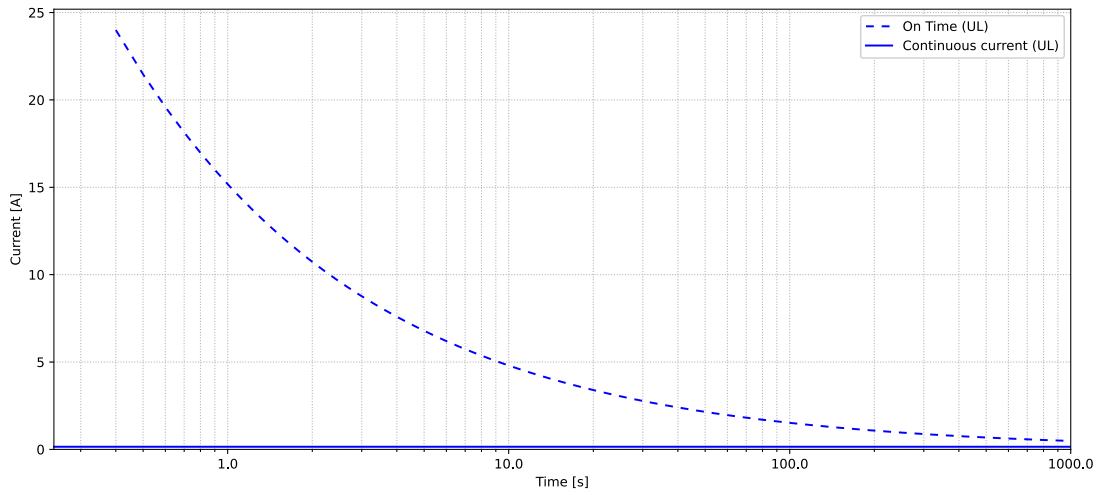
## Terminal assignment

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

# miControl®

### mcER-L42



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

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