

# Brake chopper

## mcER-L40

Article number: 1514321

 Certification:  \*1  
E475093


Picture similar

### Technical data

Absolute maximum rating	
Voltage (destruction limit) Up no polarity reversal protection	80 V
Power	
Electronic supply voltage Up	18..60 V
Electronic current consumption	typ. 10 mA
Max. braking peak current @ Ubr=60V (certified UL)*2	55 A
Max. braking continuous current @ Ta=40°C (certified UL)*2	10 A
Braking resistor	
Adjustable braking voltage Ubr	18..60 V
Switch-on threshold*3	Ubr +/- 4% 1.7 V
Switch-off threshold*3	Ubr +/- 4% 0.7 V
Braking resistor @ Ubr=60V	min. 1 Ohm (external)
Maximum duty cycle	100 %
Integrated electrolytic capacitors	400 uF
Mechanical	
Size LxWxH	110 x 23 x 77 mm
Weight	110 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	no

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

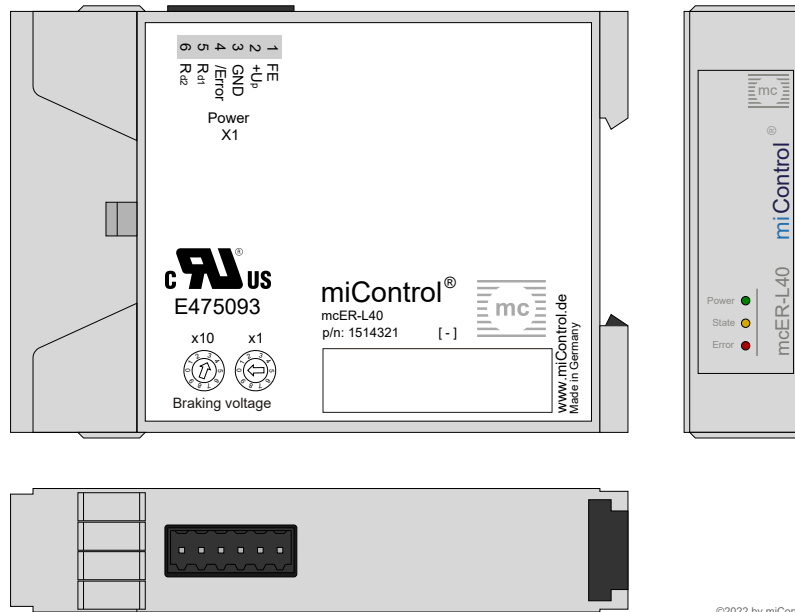
\*1 The certified performance data must be observed (see UL Instruction Note)

\*2 permitted current depends on the used braking resistor (maximum value refers to the smallest possible resistance - 1 Ohm)

\*3 Ubr = adjusted working voltage

Additional technical data are available in mcManual.

## Scheme



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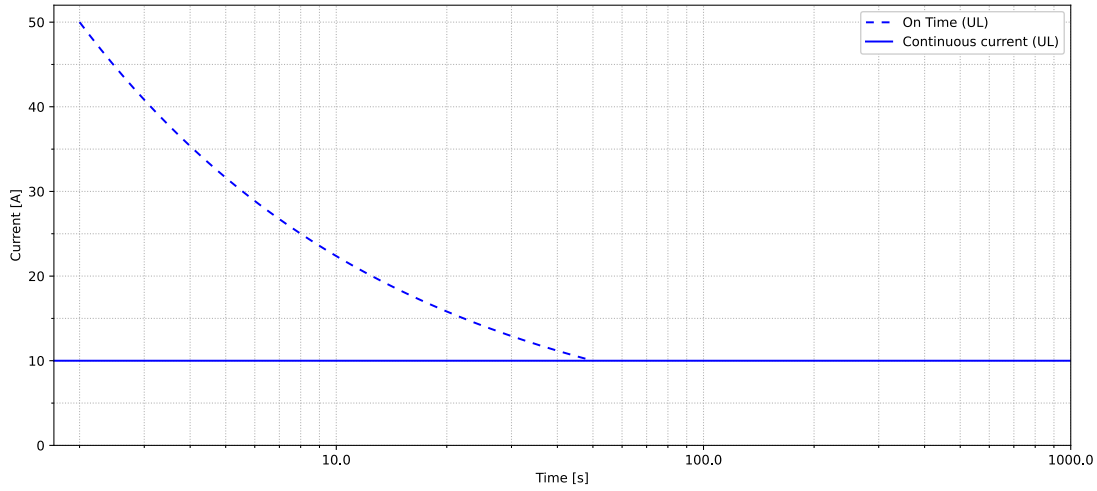
## Terminal assignment

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	/Error	Error output
5	Rd1	Braking resistor
6	Rd2	Braking resistor

## Diagrams

### miControl®

### mcER-L40



ambient temperature 40°C  
power supply voltage Up 60V  
continuous current 10A

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