


Brake chopper

mcER-L40

Article number: 1514321

 Certification: 


Picture similar

Technical data

Power	
Electronic supply voltage U_p^{*2}	18..60 V
Electronic current consumption	typ. 10 mA
Max. braking peak current @ $U_{br}=60V$ (certified UL) ^{*3}	55 A
Max. braking continuous current @ $T_a=40^\circ C$ (certified UL) ^{*3}	10 A
Braking resistor	
Adjustable braking voltage U_{br}	18..60 V
Switch-on threshold ^{*4}	$U_{br} \pm 4\% 1.7 V$
Switch-off threshold ^{*4}	$U_{br} \pm 4\% 0.7 V$
Braking resistor @ $U_{br}=60V$	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	U_p (24V max.)
Signal type	positive switching

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

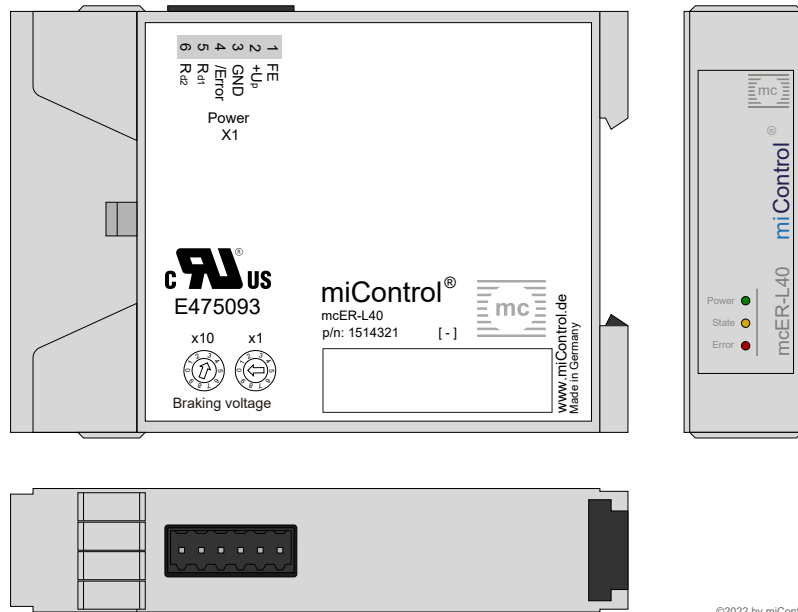
*2 No reverse polarity protection, the destruction limit is at overvoltage of $\geq 80V$

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

*4 U_{br} = adjusted working voltage

Additional technical data are available in mcManual.

Scheme



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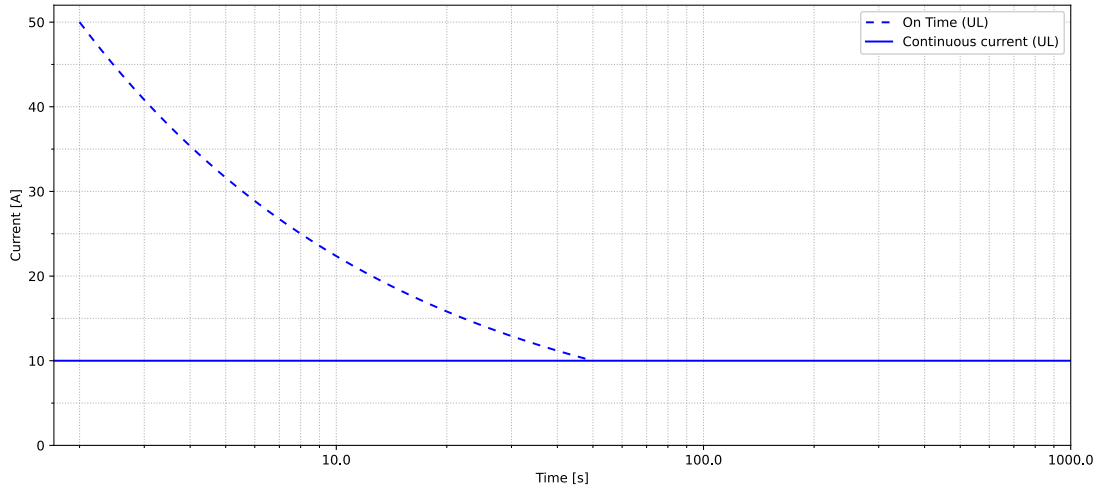
Terminal assignment

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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