

Accessories

Braking chopper

Series BC 5004

		BC 5004	
Power supply		16 50	V
Switching threshold	V_{th}	28 / 56	V
Max. continuous power losses 1)	P cont	10	W
Max. peak current 1)		10	A
Total standby current, max.		20	mA
Temperature range:			
 Operating temperature 		-25 +60	°C
 Storage temperature 		-25 +85	°C
– Dimensions (L x W x H)		65 x 58 x 22	mm
– Mass		160	g

1) at 22°C ambient temperature

General information

The function of the braking chopper BC 5004 is to limit the supply voltage of 4 quadrant controllers and other ancillary devices such as programming adapters. When braking the drive, a voltage is generated and these controllers can feed this voltage back into the power supply.

Typical power supplies do not have the ability to absorb this energy and this can lead to an overvoltage and damage to the power supply. The braking chopper limits this voltage to an allowable level. The resulting energy losses are converted into heat by the braking resistors. In this way, damage to the power supply and other devices can be prevented.

The braking chopper can be used with 24V and 48V power supplies. The voltage limit can be adjusted using the jumper included with the braking chopper.

Description of jumper setting:

Mode 24V Jumper between IN 1 and IN 2 installed

for 24V power supply, switching threshold Vth 28V

Mode 48V Jumper between IN 1 and IN 2 not installed

for 48V power supply, switching threshold Vth 56V

Status description:

The LED's indicate the status of the braking chopper. LED A (green), LED B (red)

		LED A	LED B	LED A	LED B		
Mode		24V		48V			
Not active		On	Off	On	On		
Active		Blinking	Off	Blinking	On		
Error		On	Blinking	On	Blinking		
"Not active" Switching threshold not reached							

"Not active" Switching threshold not reached

"Active" Switching threshold exceeded;
braking chopper limitation on

"Error" Overload; braking chopper limitation off





