

Intelligent brake unit for medium output



Dynamic
Brake-Manager

DBM 4.0

Dynamic Brake-Manager DBM 4.0

The device acts as a brake chopper in DC links, which means that the DBM 4.0 switches onto a safe brake resistor when the set voltage is exceeded, thereby diverting braking energy from the system in a highly dynamic manner. The DBM 4.0 can be attached to individual drive controllers as well as multi-axis systems or larger DC networks. Its key features are integration capacity, performance and communication skills. Depending on the application, the Dynamic Brake Manager DBM 4.0 can be provided as an individual device or in conjunction with a safe brake resistor, also provided from Koch.

Intelligent brake unit for medium output

- > for all drive controllers with direct DC-BUS access
- > integrated self-monitoring
- > controllable

Environmental conditions

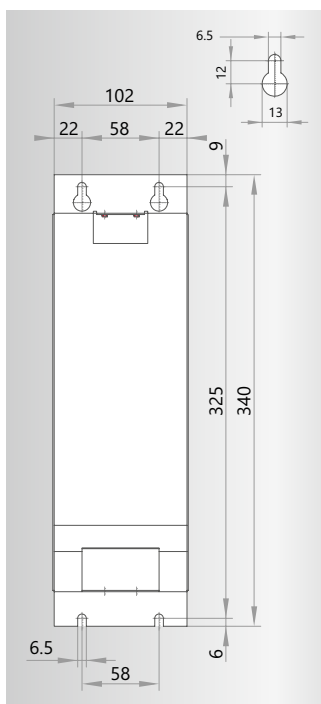
Parameter	Value
Ambient temperature	-10°C to +65°C (transport, storage) 0°C to +40°C (operation)
Relative humidity	<95% (transport, storage) <85% (operation)
Type of cooling	air cooling (convection)
Protection class of the housing	IP20
Degree of contamination of installation location	2

Technical Data DBM 4.0

Parameter	Value
Maximum brake power	28,8 kW up to 5% duty cycle (120 s cycle)
Max. operating voltage	800 VDC
Dimensions mm H x W x D	340 x 102 x 187 mm
Digital I/Os	+
Bus connection	RS422/RS485
Weight	ca. 6.0 kg
Protection class	IP20



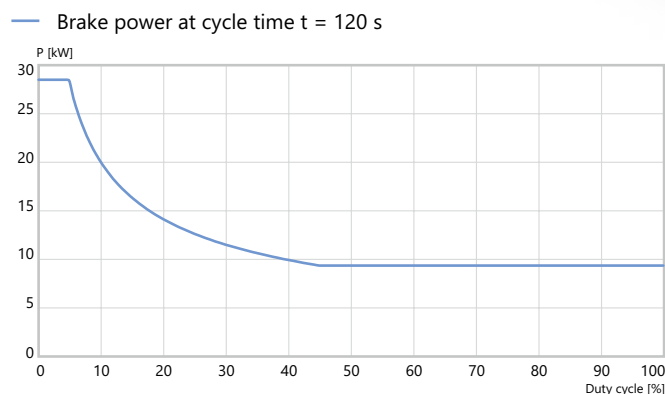
Installation dimensions and mounting holes (mm)

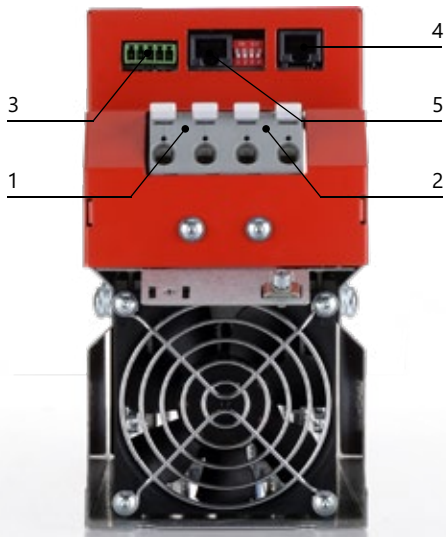


Technical Data Brake Resistor

Parameter	Value
Depending on the application	

Performance/Duty cycle-diagram Dynamic Brake-Manager DBM 4.0



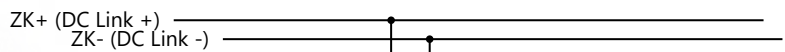


Easy connection

The DBM 4.0 acts as a brake unit in conjunction with a suitable safe brake resistor in a DC link.

The device is connected at the front panel.

1. R+ and R- ports under „Load“ for connection of the braking resistor
2. The ports under „Drive“ for connection of the plus and minus poles of the DC Link of the drive controller
3. Digital interface
4. RS422/RS485 port
5. RS422/RS485 port



DBM 4.0



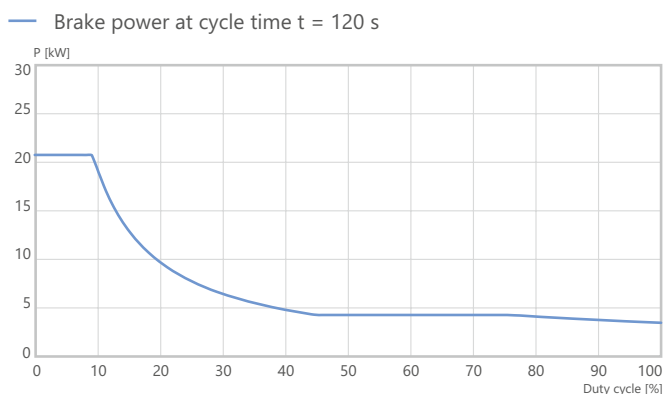
Brake resistor

Adaptability

The flexible DBM 4.0 can be run with various single resistors or combinations, depending on the application. Should one DBM 4.0 not be enough, a parallel connection is an option. Thanks to its communication skills, important information such as status, performance, and DC link voltage can be read at any time, even in BUS systems.

Brake example with safe brake resistor B3H3.6100-1000IP65

Performance/Duty cycle-diagram DBM 4.0 in conjunction with safe brake resistor B3H3.6100-1000IP65

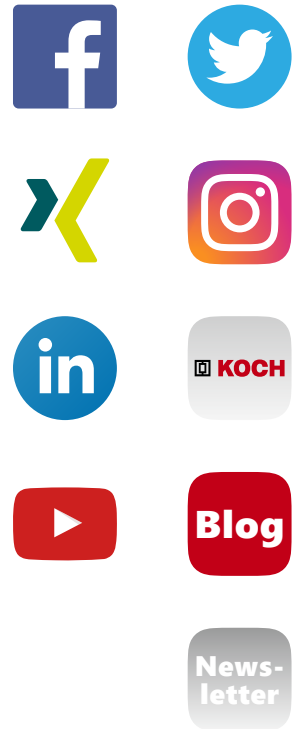


The safe brake resistor is selected according to the performance requirement and the duty cycle. Koch customers can expect optimal solutions for all operating points and corresponding DBM 4.0 devices. The safe brake resistor can be placed where waste heat is most easily dissipated.

What we offer:

- Tested product quality
- Certified processes
- Individual application support
- Machine specific design and sizing
- Rapid reaction
- Quick delivery times
- On-time delivery
- Reliable partner
- Long-term business relationship
- Direct customer relations

Use our communication channels:



Your specialist for:

- Active energy management devices and systems
- Safe brake resistors

We look forward to hearing from you!



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