

Managing DC Energy



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

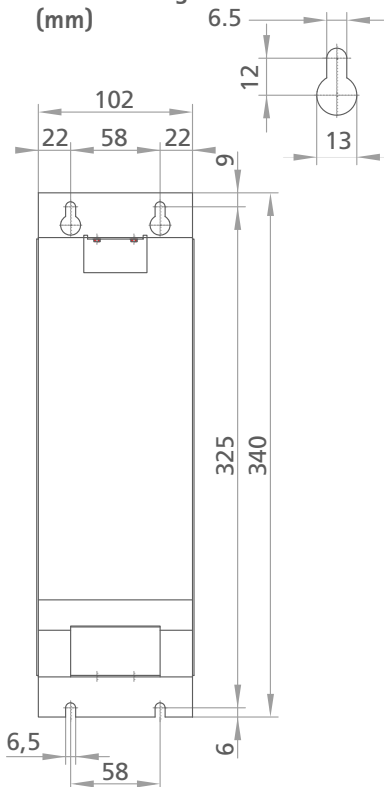
- > for all drive controllers with direct DC-BUS access
- > integrated self-monitoring
- > controllable



www.bremsenergie.de/en/products/accessories-for-electronics/dbm-4-0



Installation dimensions and mounting holes (mm)



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

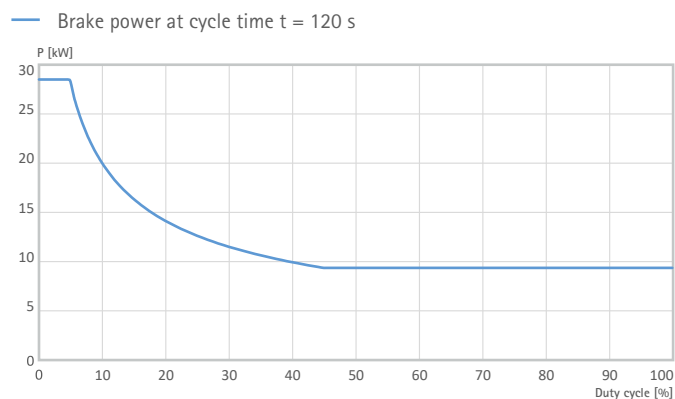
Parameter	Value
Maximum brake power	28,8 kW up to 5% duty cycle (120 s cycle)
Max. operating voltage	800 VDC
Dimensions mm H x W x D	340 x 102 x 187 mm
Digital I/Os	+
Bus connection	RS422/RS485
Weight	ca. 6.0 kg
Protection class	IP20



Technical Data Brake Resistor

Parameter	Value
Depending on the application	

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





Easy connection

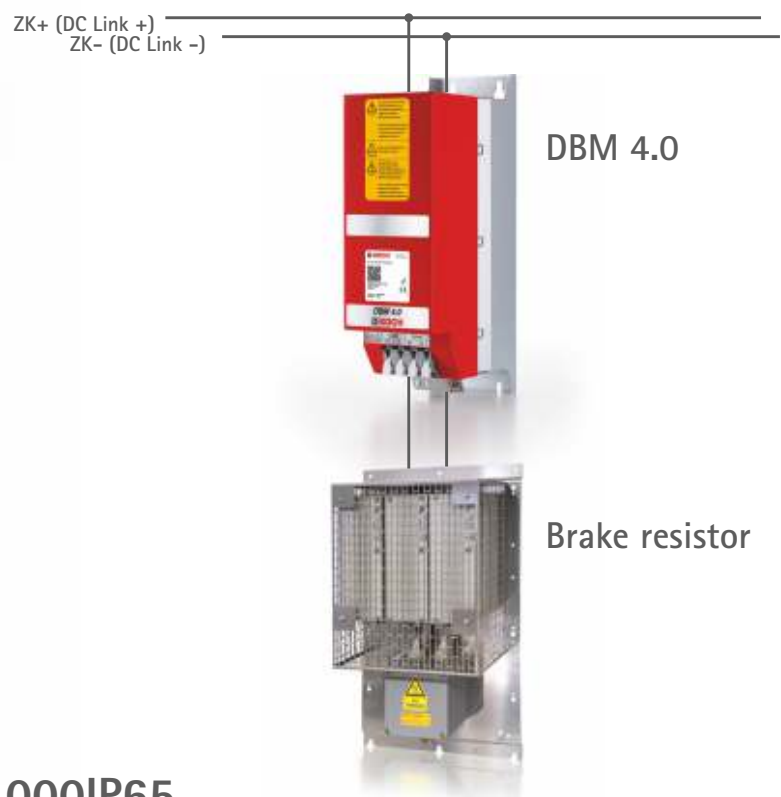
The DBM 4.0 acts as a brake unit in conjunction with a suitable safe brake resistor in a DC link.

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

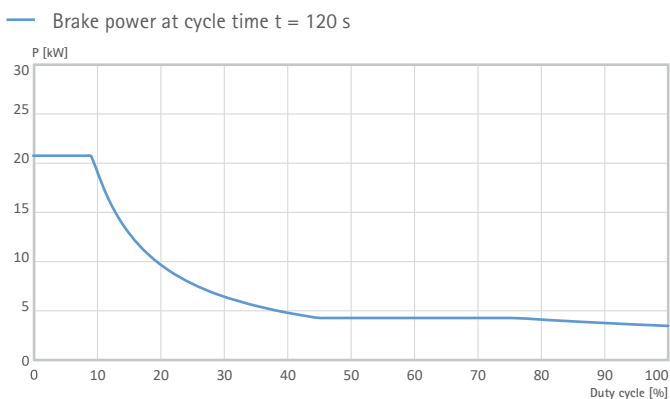
Adaptability

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.

Managing DC Energy

Active Energy Management Solutions and Safe Brake Resistors for Electric Drives

We offer:

- **Tested product quality**
- **Certified processes**
– we undergo regular inspections by third parties
- **Individual application support**
– owing to our modular system we can offer more than 60.000 solutions
- **Machine-specific implementation**
– we match our products with your machines
- **High reaction rate**
– we provide you with a suitable offer in the shortest possible time
- **Short delivery times**
– all components are in stock
- **On-time deliveries every time**
– we deliver on schedule in optimal lot sizes
- **Reliable partner**
– we strive for long-term business relationships
- **Direct customer relationships**

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We look forward to hearing from you!



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Technische Änderungen vorbehalten. MK_PRO_DBM_ENG_R00_0

