



# Overhead Monorail Geared Motor Series BM

Flexible and robust for large and small loads

## Standards

- CE-Mark
- Motors according to EN 60034
- UL
- CCC
- CSA
- ATEX
- GOST
- ISO9001
- ISO14001
- OHSAS18001

## Gearbox

- Torque up to 108 Nm
- Radial force up to 6,500 N
- Versatile installation possibilities
- Completely enclosed, sealed against dust and water spray
- Lubrication change first after 15,000 hrs
- Low noise gearing

## Motors

- Power 0.06 kW ... 5,5 kW
- Mains 110 V ... 690 V, 50/60 Hz
- Enclosure IP 65 (Standard),  
IP 66 (Optional)
- Connection Standard with  
CAGE CLAMP®

## Options

Connecting with plug connectors

## Brakes

- Enclosure IP 65 (Standard)
- Application and performance optimized brake range
- Maintenance friendly design

## General

- Corrosion protection  
CORO1, CORO2, CORO3

The BM09 gear motor has exactly the same connection dimensions and gear ratios as the SZ2-V3209 gear motor, which has been manufactured in large quantities over the past 20 years. With it the demands on C1-guideline according VDE2643 is kept.

## Reliable operation even in hostile environments

The drives are supplied with IP 65 degree of protection as standard. This is a great advantage for operation in dusty environments.

## Low-noise operation

The noise emission from two-ratio gear motors is lower than three-ratio motors with the same ratios. The first gear wheel, which is primarily responsible for noise, has a smaller diameter than three-ratio models.

## Reduced operating costs by high efficiency

Gear motor size BM09 in the load range to approx. 2000 kg have worm gears for the first ratio and spur wheels for the second ratio. The specially developed worm gears with very low ratios provide very high efficiency, similar to that of bevel gear drives.

Type	Allowable torque	Allowable wheel load at power application *ML	Gear ratios	Speed [m/min]	Wheel diameter	Output shaft
	[NM]	[N]		based on wheel see right	[mm]	[mm]
BM09	30 - 108	4400	11.34 - 53.85	10 - 100	125	20 x 35
BM09X	30 - 108	6500	11.34 - 53.85	12.8 - 128	160	25 x 35

\*ML: The position of the power application point "centre of wheel" can be seen on the applicable dimensional drawings. Significantly higher gear ratios are optional.

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