



# Brake motors

SENSE EXPERIENCE  
EXPERIENCE VISION





# Brake motors

Drives for hoists, cranes, winches, conveyors or machine tools

## Stopping straight off

For many applications, it is imperative to be able to stop the drives quickly and reliably. For lifts, hoists, cranes, winches, conveyors and machine tools, brake motors from VEM are an ideal and secure choice.

- › They comprise a VEM three-phase squirrel-cage motor and a mounted brake.
- › The mounted brake can be supplied by a number of different manufacturers.
- › The brakes are designed as twin-disc spring-operated brakes and function on the fail-safe principle.
- › The brake systems can be supplied as a compact unit ready for connection and assembly.
- › The most varied brake torques and designs can be implemented upon request by the customer.
- › They are available in all efficiency classes.

## Reliable stopping and starting

Brake motors always apply a holding torque in the no-voltage state. Compression springs apply a force to the axially free armature disc, which builds up a braking torque via friction linings. The brake torque is transmitted to the shaft via the keyed joint to the lining carrier or a toothed driver hub. When a voltage is applied to the brake coil, the armature disc is lifted, releasing the brake linings and permitting the motor to start up.

## Series

**B21R, IE1 -B21R, IE2-BE1R and IE3-B41R, mounting dimensions and output correlation acc. to EN 50347, B20R, B22R, Transnorm version**

Sizes

63 to 355

Output range

0.18 – 500 kW

Efficiency class

without, IE1, IE2 and IE3 according to IEC 60034-30 in the power range 0.75...275 kW, 2-, 4-, 6- and 8-pole

Types of protection

IP 55 acc. to DIN EN 60034-5, higher degrees of protection as an option

Types of construction

IM B3, IM B35, IM B5 and derived types of construction acc. to DIN EN 60034-7

Cooling method

IC 411 acc. to DIN EN 60034-6

Brakes

Double-face spring-pressure brakes

Brake manufacturer/ type

Stromag BZFM, 4BZFM, BZFA, NFE

Intorq BFK 458

PINTSCH BAMAG KFB, SFB

Mayr./800.410.3

KEB../08.2.0

Brake motors are used wherever it is imperative to be able to stop the drives quickly and reliably.

Size	Rated output P [kW]				Size	Rated output P [kW]			
	2-pole	4-pole	6-pole	8-pole*		2-pole	4-pole	6-pole	8-pole*
rpm	3000	1500	1000	750	rpm	3000	1500	1000	750
63 K	0.18	0.12	0.09	-	180 M	22	19	-	-
63 G	0.25	0.18	0.12	-	180 L	-	22	15	11.0
71 K	0.37	0.25	0.18	0.09	200 L	30	30	19	15.0
71 G	0.55	0.37	0.25	0.12	200 LX	37	-	22	-
80 K	0.75	0.55	0.37	0.18	225 S	-	37	-	18.5
80 G	1.1	0.8	0.6	0.25	225 M	45	45	30	22
90 S	1.5	1.1	0.8	0.37	250 M	55	55	37	30
90 L	2.2	1.5	1.1	0.55	280 S	75	75	45	37
100 L	3.0	2.2	1.5	0.75	280 M	90	90	55	45
100 LX	-	3.0	-	1.1	315 S	110	110	75	55
112 M	4.0	4.0	2.2	1.5	315 M	132	132	90	75
112 MX	-	-	-	-	315 MX	160	160	110	90
132 S.T	5.5	5.5	3.0	2.2	315 MY	200	200	132	110
132 SX.T	7.5	-	-	-	315 L	250	250	160	132
132 S	5.5	5.5	3.0	2.2	315 LX	315	315	200	160
132 SX	7.5	-	-	-	355 M	355	355	250	200
132 M	-	7.5	4.0	3.0	355 MX	400	400	315	250
132 MX	-	-	5.5	-	355 LY	450	450	355	280
160 M	11.0	11.0	7.5	4.0	355 L	500	500	-	-
160 MX	15.0	-	-	5.5					

\* without IE-marking

Please refer to our catalogues for technical details. The catalogues are available in printed or in digital version on CD-ROM. They are also available in the internet.



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