

453715

# Lenze



***Three-phase AC motors***  
***0.25...22 kW***

# Three-phase AC motors

These motors are manufactured and tested according to the current industrial requirements. The high quality of the products is thus assured.

The windings are designed to cope with the operating conditions of a frequency inverter. Safe operation is ensured even for chopper frequencies of 16 kHz.

The motors are equipped with some special features for applications with inverter operation:

- A universal terminal box is attached to the motor for clearly structured wiring.

- For speed-controlled operation, an encoder is fixed to a system-optimised B-side endshield.
- Attach a separate fan for using the motor over a large setting range. The user can choose between several cover lengths, according to the B-side application.
- Integrated temperature monitoring by means of thermal contacts and KTY sensors.
- Available in the mounting positions B3, B5, B14.

The motor can be directly attached to 8200 motec inverters or frequency inverters of the series 8200 and 9300 vector.



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# Technical data

## Enclosure: IP 54, Insulation class F

Motor type	Axis height	Rated speed	Rated torque	Rated power	Rated current	Rated voltage	Fre- quency	Power factor	Effi- ciency	Stall torque	Starting torque	Starting current	Moment of inertia	Weight
	h [mm]	$n_{rated}$ [min <sup>-1</sup> ]	$M_{rated}$ [Nm]	$P_{rated}$ [kW]	I [A]	U [V]	[Hz]	cos φ	η	$M_{stall}$ [Nm]	$M_{start}$ [Nm]	$I_{start}/I_{rated}$	J [kgm <sup>2</sup> ]	m [kg]
MDXMA 71-12	71	1355	1.8	0.25	0.85/1.5	400/230	50	0.70	0.61	3.4	3.4	3.8	0.0006	5.9
MDXMA 71-32	71	1345	2.6	0.37	1.15/2.0	400/230	50	0.74	0.63	5.2	5.2	3.7	0.0008	6.6
MDXMA 80-12	80	1370	3.9	0.55	1.6/2.8	400/230	50	0.78	0.65	6.8	6.5	3.8	0.0016	8.6
MDXMA 80-32	80	1390	5.2	0.75	1.9/3.3	400/230	50	0.80	0.71	9.7	9.2	4.5	0.0019	9.8
MDXMA 90-12	90	1405	7.5	1.1	2.6/4.5	400/230	50	0.80	0.77	21.0	16.5	4.9	0.0026	14.0
MDXMA 90-32	90	1410	10.2	1.5	3.5/6.1	400/230	50	0.78	0.79	28.6	25.5	5.3	0.0034	17.2
MDXMA 100-12	100	1425	14.7	2.2	4.8/8.3	400/230	50	0.80	0.82	37.8	35.0	6.1	0.0057	25.0
MDXMA 100-32	100	1415	20.2	3.0	6.5/11.4	400/230	50	0.81	0.82	48.5	46.5	6.1	0.0065	26.0
MDXMA 112-22	112	1435	26.6	4.0	8.3/14.3	400/230	50	0.82	0.85	73.4	66.5	6.3	0.0118	34.0
MDXMA 132-12	132	1450	36.2	5.5	11.0/19.1	400/230	50	0.84	0.86	103.0	72.5	6.9	0.0290	62.0
MDXMA 132-22	132	1450	49.4	7.5	14.6/25.4	400/230	50	0.85	0.87	140.0	107.0	6.7	0.0350	73.0
MDXMA 160-22	160	1460	71.9	11.0	21.0/36.5	400/230	50	0.85	0.89	204.0	150.0	7.0	0.0610	110.0
MDXMA 160-32	160	1460	98.1	15.0	27.8/48.4	400/230	50	0.87	0.90	288.0	214.0	7.1	0.0750	130.0
MDXMA 180-12	180	1470	120.2	18.5	32.8/57.8	400/230	50	0.90	0.905	313.0	260.0	6.8	0.1350	165.0
MDXMA 180-22	180	1456	144.3	22.0	38.8/67.4	400/230	50	0.90	0.91	360.0	330.0	7.3	0.1550	175.0

## Assignment of motor, controller, control cabinet and 8200 vector inverter

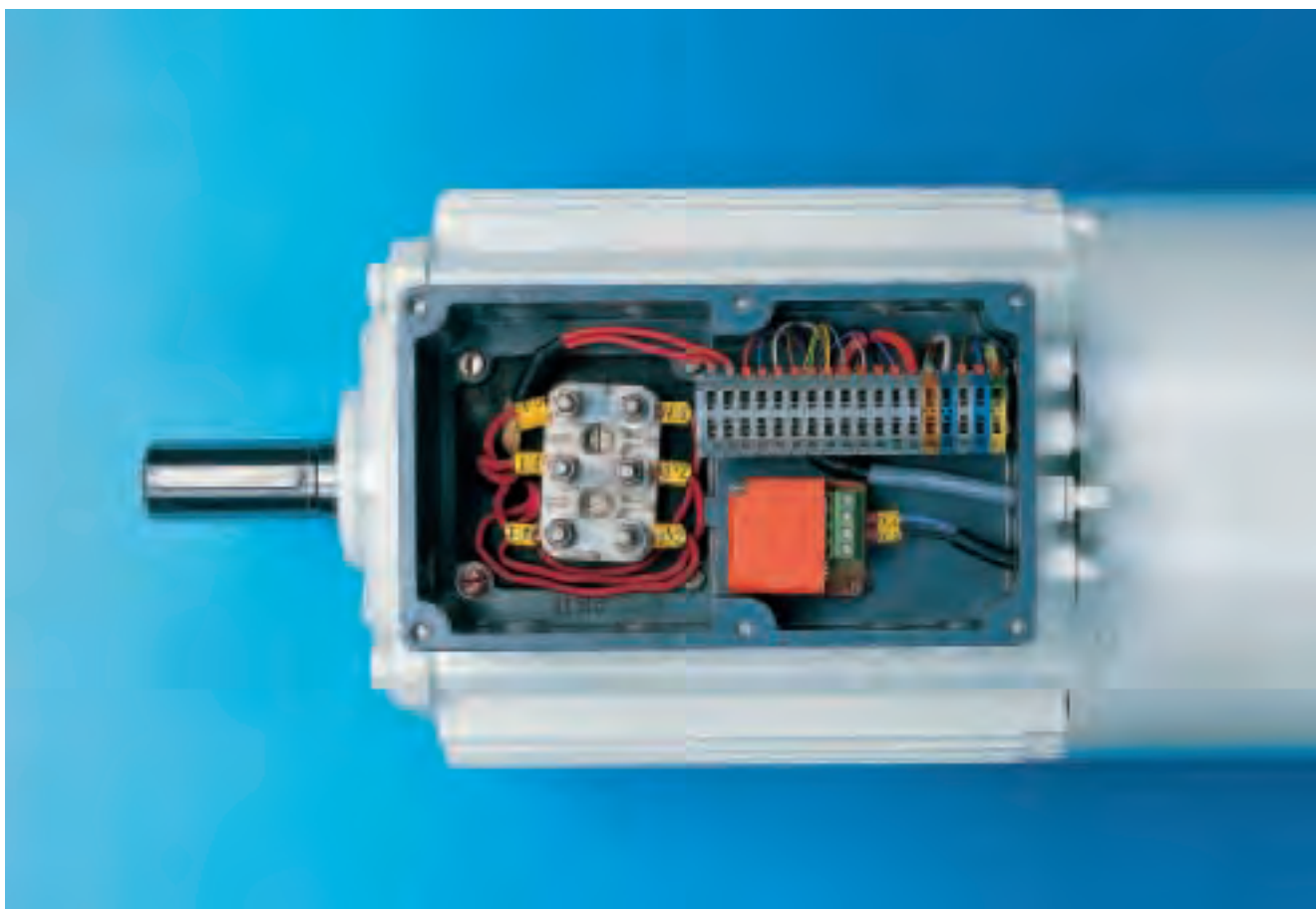
Type	MDXMA 71-12	MDXMA 71-32	MDXMA 80-12	MDXMA 80-32	MDXMA 90-12	MDXMA 90-32	MDXMA 100-12	MDXMA 100-32	MDXMA 112-12	MDXMA 132-12	MDXMA 132-22	MDXMA 160-22	MDXMA 160-32	MDXMA 180-12	MDXMA 180-22
<b>Inverter for control cabinet installation, 8200 vector</b>															
Type															
E82EV251	x														
E82EV371		x													
E82EV551			x												
E82EV751				x											
E82EV152					x	x									
E82EV222							x								
E82EV302								x							
E82EV402									x						
E82EV552										x					
E82EV752											x				
E82EV113												x			
E82EV153													x		
E82EV223														x	x
<b>Motors with 8200 motec motor inverter</b>															
E82MV251	x														
E82MV371		x													
E82MV551			x												
E82MV751				x											
E82MV152					x	x									
E82MV222							x								

## ***Universal terminal box***

Many applications of three-phase AC motors require extra terminals in addition to the power connections of the motor, e.g. for the separate fan, thermal contacts, brake, etc.

The universal terminal box of Lenze three-phase AC motors offers a very convenient solution without intricate

lamp-wire connectors. The terminal box has been expanded to include a small mounting rail. Up to 18 terminals can be connected to this rail, and all applications are thus possible. In addition, it is possible to include the rectifier required by the brake.



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# *Lenze three-phase AC motors*

Three-phase AC motors are robust and applicable to many industry sectors. The compact design and universality make these motors suitable for most applications. Lenze three-phase AC motors are distinguished by their modular design, which includes a universal terminal box, the easy installation of incremental encoders and resolvers.

It is also possible to attach BFK458 spring-operated brakes for various applications. This motor program is rounded off by matching frequency inverters and attachable gearboxes.

- One stop shopping for the complete drive package!



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