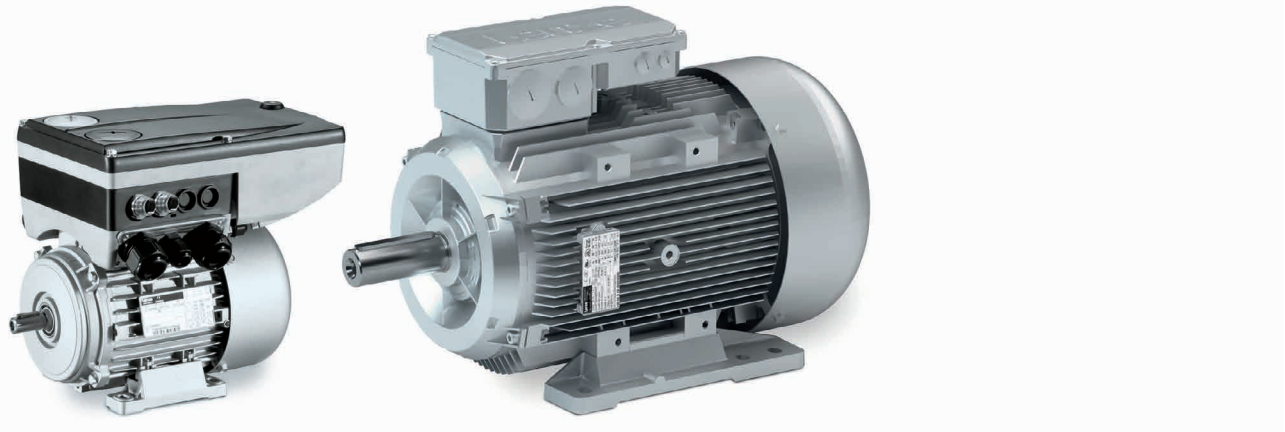


Inverter-operated motors

Three-phase AC motors

Perfect operation, open or closed-loop controlled.



Inverter-operated motors

Lenze offers inverter-operated three-phase AC motors for a wide range of tasks, covering a power range from 0.12 to 45 kW.

These drives come in different efficiency classes and can be used for the versions required for open or closed-loop controlled inverter operation.

Customer benefits

- Different efficiency classes for the greatest economic benefit
- Space-saving thanks to compact direct attachment to Lenze drives
- Can be used universally for a wide range of machine tasks due to the application-oriented modular system
- Conventional connectors ensure quick connection, also during servicing

	Power range	Supply voltage
IE1 motors	0.12 to 45 kW	230/400 and 460 V
IE2 motors	0.75 to 45 kW	230/400 and 460 V
IE3 motors	0.75 to 45 kW	230/400 and 460 V
Inverter-optimised motors	0.55 to 22 kW	230/400 V

Inverter-operated motors

Three-phase AC motors

Features

Degree of protection	
EN 60529	IP55, IP65 and IP66
Energy efficiency class	
IEC 60034-30-1	IE1, IE2, IE3
Approvals	
	cURus, EAC, CCC and UkrSepru
Temperature class	
IEC / EN 60034-1 utilisation	B
IEC / EN 60034-1 insulation system	F
Climatic conditions	
Storage temperature	-30°C to +60°C
Operating temperature	-20°C to +40°C
Options	
Feedback connection	Connection via terminal boxes or plug connectors, spring-applied brakes, feedback (incremental and absolute value encoders), forced cooling fan, temperature monitoring via thermal contact or PTC

Specifications at 400 V, 50 Hz, 4-pole

IE1 motors MD

Size		063	071	080	090	100	112	132	160	180
Rated power	P [kW]	0.12	0.25	0.55	1.1	2.2	4	5.5	11	18.5
		0.18	0.37	0.75	1.5	3		7.5	15	22
		0.25	0.55	1.1						
Output current	I [A]	0.49	0.75	1.4	2.8	5.3	9.3	11.7	21	32.8
		0.58	0.95	1.9	3.8	7.2		16.5	27.8	38.8
		0.82	1.4	2.8						
Rated torque	M [Nm]	0.8	1.74	3.8	7.56	14.6	26.3	36.2	71.9	120
		1.26	2.51	5.1	10.1	20.5		49.2	98.1	144
		1.74	3.74	7.5						

30 kW available in size 180 as geared motor.

IE2 motors MH

Size		080	090	100	112	132	160	180	200	225
Rated power	P [kW]	0.75	1.1	2.2	4	5.5	11	18.5	30	37
			1.5	3		7.5	15	22		45
Output current	I [A]	1.8	2.7	5	8.4	11.9	21.8	34	53.9	65
			3.3	7		15.6	29.1	39.8		79
Rated torque	M [Nm]	5.08	7.35	14.5	26.3	35.7	71.5	120	196	238
			10	19.8		49.1	97.4	143		290

30 kW available in size 180 as geared motor.

IE3 motors m550-P

Size		080	090	100	112	132	160	180	200	225
Rated power	P [kW]	0.75	1.1	2.2	4	5.5	11	18.5	30	37
			1.5	3		7.5	15	22		45
Output current	I [A]	1.46	2.1	3.6	6.8	10.6	22.8	33.7	55.4	69.3
			2.8	4.8		14.7	30.6	40.2		84.3
Rated torque	M [Nm]	4.1	6	11.9	21.7	36	71.1	119	194	238
			8.2	16.3		48.5	97.4	142		290

30 kW available in size 180 as geared motor.

Inverter-optimised MF motors

Size		063	071	080	090	100	112	132
Rated power	P [kW]	0.55	1.1	2.2	4	5.5	11	15
		0.75	1.5	3		7.5		22
Output current	I [A]	1.8	3.2	5.3	8.5	12.9	23.5	31.2
		2.3	3.9	6.6		15.9		39
Rated torque	M [Nm]	1.53	3.01	6	10.9	14.9	29.7	40.3
		2.11	4.15	8.2		20.3		49.6
								59.2