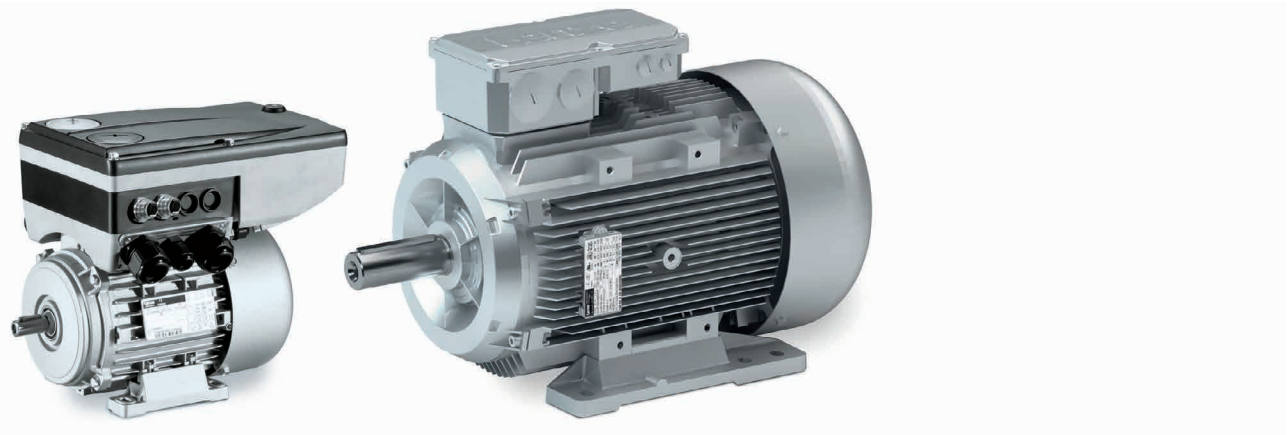


# Inverter-operated motors

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

<b>Degree of protection</b>	
EN 60529	IP55, IP65 and IP66
<b>Energy efficiency class</b>	
IEC 60034-30-1	IE1, IE2, IE3
<b>Approvals</b>	
	cURus, EAC, CCC and UkrSePro
<b>Temperature class</b>	
IEC / EN 60034-1 utilisation	B
IEC / EN 60034-1 insulation system	F
<b>Climatic conditions</b>	
Storage temperature	-30°C to +60°C
Operating temperature	-20°C to +40°C
<b>Options</b>	
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	1.5	3	7.5	15	22	30	45	
Output current	I [A]	1.8	2.7	5	8.4	11.9	21.8	34	53.9	65
		3.3	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	1.5	3	7.5	15	22	30	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	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	15	22	30
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	44.5	
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	