



ML IEC 3 phase 0.37 - 22 kW
Premium Efficiency

Grundfos motors in a class of their own

Product range

Grundfos is one of the world's leading manufacturers of pumps and pumping equipment. Therefore, high-quality electric motors are a natural priority for us. For decades, we have been manufacturing our own motors that match the very high standard of our pumps for applications in building services, industry and water supply.

The Grundfos manufactured ML IEC motors are available in three phase and sizes from 0.37-22 kW, dual nameplated with both 60 and 50 Hz data.

The motors have smooth shaft ends and are suitable for the Grundfos CR, TP, MTR, SPK, and CRK pumps.

UL Recognized Component

Grundfos ML IEC motors are extremely reliable, high-efficiency motors, designed and built in accordance with IEC 60034 and IEC 60072-1 / EN50347 standards.

The Grundfos ML IEC motors are recognized under the Component Recognition Program of Underwriters Laboratories Inc. for the United States and Canada.

Energy Independence and Security Act

The Grundfos ML IEC motors comply with the Energy Independence and Security Act (EISA) of 2007 which became effective December 19, 2010.



The ML IEC motors are equipped with a reinforced bearing system with locked bearings at the drive end. This ensures an even uptake of the load in order to maximize the lifetime of the bearings, which are guaranteed for a minimum of 18,000 hours service life. All models are inverter ready, and models from 3 kW and larger have a built-in thermistor arrangement.

The motors are "cool running" motors, i.e. class B temperature rise for class F insulation system. Additional advantages of the ML IEC motors are low noise level, and stainless steel outer screws and bolts. Heavy models are equipped with eyebolts for easy handling. As a standard, all models are fitted with drain holes (closed on delivery). The exterior surfaces of the motors are electro coated for superior corrosion resistance.

Standard motor range - 3 phase				
ML Type Designation	kW	60 Hz Voltage	Efficiency %	NEMA Efficiency Class
ML71AB	0.37	220-255/380-440	80.0*	Not Defined
ML71BA	0.55	220-255/380-440	83.0*	Not Defined
ML80AA-H3	0.75	220-255/380-440	77.0	Pemimum Efficient
ML80CA-H3	1.1	220-255/380-440	84.0	Pemimum Efficient
ML90CC-H3	1.5	220-277/380-480	85.5	Pemimum Efficient
ML90FA-H3	2.2	220-277/380-480	86.5	Pemimum Efficient
ML100DA-H3	3	220-277/380-480	87.5	Pemimum Efficient
ML112CA-H3	4	220-277/380-480	88.5	Pemimum Efficient
ML132DA-H3	5.5	220-277/380-480	89.5	Pemimum Efficient
ML132EA-H3	7.5	220-277/380-480	90.2	Pemimum Efficient
ML160BA-H3	11	220-277/380-480	91.0	Pemimum Efficient
ML160BB-H3	15	220-277/380-480	91.0	Pemimum Efficient
ML160BC-H3	18.5	220-277/380-480	91.7	Pemimum Efficient
ML180BA-H3	22	220-277/380-480	91.7	Pemimum Efficient
ML80AA-H3	0.75	380-440	77.0	Pemimum Efficient
ML80CA-H3	1.1	380-440	84.0	Pemimum Efficient
ML90CC-H3	1.5	380-480	85.5	Pemimum Efficient
ML90FA-H3	2.2	380-480	86.5	Pemimum Efficient
ML100DA-H3	3	380-480	87.5	Pemimum Efficient
ML112CA-H3	4	380-480	88.5	Pemimum Efficient
ML132DA-H3	5.5	380-480	89.5	Pemimum Efficient
ML132EA-H3	7.5	380-480	90.2	Pemimum Efficient
ML160BA-H3	11	380-480	91.0	Pemimum Efficient
ML160BB-H3	15	380-480	91.0	Pemimum Efficient
ML160BC-H3	18.5	380-480	91.7	Pemimum Efficient
ML180BA-H3	22	380-480	91.7	Pemimum Efficient
ML71AB	0.37	200-230/346-400	80.0*	Not Defined
ML71BA	0.55	200-230/346-400	83.0*	Not Defined
ML80AA-H3	0.75	200-255/346-440	77.0	Pemimum Efficient
ML80CA-H3	1.1	200-255/346-440	84.0	Pemimum Efficient
ML90CC-H3	1.5	200-255/346-440	85.5	Pemimum Efficient
ML90FA-H3	2.2	200-230/346-400	86.5	Pemimum Efficient
ML100DA-H3	3.0	200-230/346-400	87.5	Pemimum Efficient
ML112CA-H3	4.0	200-230/346-400	88.5	Pemimum Efficient
ML132DA-H3	5.5	200-230/346-400	89.5	Pemimum Efficient
ML132EA-H3	7.5	200-230/346-400	90.2	Pemimum Efficient
ML160BA-H3	11	200-230/346-400	91.0	Pemimum Efficient
ML160BB-H3	15	200-230/346-400	91.0	Pemimum Efficient
ML160BC-H3	18.5	200-230/346-400	91.7	Pemimum Efficient
ML180BA-H3	22	200-230/346-400	91.7	Pemimum Efficient

*Efficiency not defined by NEMA standards.

Premium Efficient Motors
The Grundfos ML IEC motors comply with the NEMA Premium Efficient standards. The Grundfos ML IEC motors also comply with the IE3 efficiency class per IEC 60034-30.

Environment Friendly
Premium efficiency motors mean reduced energy consumption and consequently, reduced harmful influence on the environment. Obviously, reduced energy consumption also means reduced operating costs, which is a vital consideration for modern industry.

Bearings

Sound pressure/Motor data

The ML IEC motors are equipped with a reinforced bearing system with locked bearings at the drive end, either a deep-groove ball bearing or an angular-contact bearing depending on the motor model. This ensures an even uptake of the load in order to maximize the lifetime of the bearings, which are guaranteed for a minimum of 18,000 hours service life. At the non-drive end, the motors are fitted with bearings with axial clearance in order to meet production tolerances while allowing for thermal expansion during motor operation. This ensures trouble-free operation and long life.

Grundfos uses only high-quality bearings from the world's leading manufacturers. These include:

- SKF AB (Sweden)
- NSK Corporation (Japan)
- NTN Bearing Corporation (Japan)
- FAG Kugelfischer AG & Co KG (Germany)
- INA Schäffler KG (Germany)

These manufacturers all comply with international standards, which means that replacement bearings are readily available throughout the world and the bearings are fully interchangeable regardless of make.

Bearing size overview

ML type Designation	kW	Bearing sizes	
		Drive end	Non-Drive end
ML71AB	0.37	6204.2Z.C3	6201.2Z.C3
ML71BA	0.55		
ML80AA-H3	0.75	6304.2Z.C3	6205.2Z.C3
ML80CA-H3	1.1		
ML90CC-H3	1.5	6305.2Z.C4	6206.2Z.C3
ML90FA-H3	2.2		
ML100DA-H3	3	6306.2Z.C4	6206.2Z.C3
ML112CA-H3	4	7306BE.2CS	
ML132DA-H3	5.5	7308BE.2CS	6309.C4
ML132EA-H3	7.5		
ML160BA-H3	11	7309BE	6309.C4
ML160BB-H3	15		
ML160BC-H3	18.5	7310BE	6310.C4
ML180BA-H3	22		

In electric motors, the cooling fan is normally the main source of noise. Because high-efficiency motors have reduced power consumption, less cooling air is needed to maintain the motor temperature. This allows for a smaller cooling fan, which in turn produces less noise.

Sound pressure levels

Grundfos complies with the following rules relating to sound pressure:

- The sound power is measured according to EN ISO 3743-2.
- The sound power is converted to a mean sound pressure at 3.3 feet (1 m) distance from the test object by means of EN ISO 11203 – method Q2.
- The values for both 50 and 60 Hz have a tolerance of 3 dB[A] according to EN ISO 4871, which is not added to the values in these tables.

ML Type Designation	kW	Sound Pressure Level dB[A] *Lpa at 3.3 feet distance 50 Hz	Sound Pressure Level dB[A] *Lpa at 3.3 feet distance 60 Hz
ML71AB	0.37	50.4	53.5
ML71BA	0.55	49.0	53.0
ML80AA-H3	0.75	48.8	53.7
ML80CA-H3	1.1	48.6	53.5
ML90CC-H3	1.5	54.2	58.6
ML90FA-H3	2.2	55.5	59.8
ML100DA-H3	3	55.3	59.8
ML112CA-H3	4	58.7	63.6
ML132DA-H3	5.5	58.8	63.6
ML132EA-H3	7.5	60.3	65.1
ML160BA-H3	11	60.5	65.1
ML160BB-H3	15	60.6	65.2
ML160BC-H3	18.5	60.7	65.3
ML180BA-H3	22	64.4	69.1

*Reference: 20 micro pascal, airborne

Motor Data

ML type designation	kW	flange	Ship Wt. (lbs)	Ambient temperature Max.	Ambient temperature Min.	Moment of Inertia (with fan)	IP class	Enclosure class
ML71AB	0.37	B14/V18	13	40	-30	0.00049	55	TEFC
ML71BA	0.55	B14/V18	13	40	-30	0.00055	55	TEFC
ML80AA-H3	0.75	B14/V18	17	60	-30	0.00080	55	TEFC
ML80CA-H3	1.1	B14/V18	28	60	-30	0.00082	55	TEFC
ML90CC-H3	1.5	B14/V18	37	60	-30	0.00240	55	TEFC
ML90FA-H3	2.2	B14/V18	46	60	-30	0.00310	55	TEFC
ML100DA-H3	3	B14/V18	51	60	-30	0.00373	55	TEFC
ML112CA-H3	4	B14/V18	81	60	-30	0.00880	55	TEFC
ML132DA-H3	5.5	B5/V1	96	60	-30	0.00970	55	TEFC
ML132EA-H3	7.5	B5/V1	119	60	-30	0.01200	55	TEFC
ML160BA-H3	11	B5/V1	196	60	-30	0.03900	55	TEFC
ML160BB-H3	15	B5/V1	223	60	-30	0.04900	55	TEFC
ML160BC-H3	18.5	B5/V1	251	60	-30	0.05800	55	TEFC
ML180BA-H3	22	B5/V1	282	60	-30	0.06500	55	TEFC

Electrical data

2-pole motors 60 Hz, 230/460 V

ML Type Designation	KW	60 HZ VOLTAGE	Full Load Current	Power Factor	NEMA	Speed	Full Load	Locked	Locked	Break-down		
							Torque	Rotor Current	Rotor Torque	Torque		
							(Cos Phi)	%	RPM	NM	%	%
ML71AB	0.37	220-255/380-440	1.50-1.44/0.87-0.83	0.85-0.76	80.0*	3410-3470	1.04-1.04	550-650	260-350	300-400		
ML71BA	0.55	220-255/380-440	2.15-2.05/1.25-1.20	0.85-0.76	83.0*	3390-3460	1.54-1.54	500-600	290-390	320-430		
ML80AA-H3	0.75	220-255/380-440	2.95-2.75/1.70-1.60	0.86-0.77	77.0	3410-3470	2.10-2.10	600-740	280-380	330-440		
ML80CA-H3	1.1	220-255/380-440	4.15-4.00/2.40-2.30	0.88-0.80	84.0	3420-3470	3.10-3.05	430-500	240-310	280-380		
ML90CC-H3	1.5	220-277/380-480	5.35-4.70/3.10-2.70	0.90-0.81	85.5	3470-3530	4.10-4.10	780-1050	270-430	330-530		
ML90FA-H3	2.2	220-277/380-480	7.70-6.35/4.45-3.70	0.91-0.85	86.5	3470-3530	6.00-6.00	780-1100	280-450	330-530		
ML100DA-H3	3.0	220-277/380-480	10.8-9.35/6.20-5.40	0.91-0.84	87.5	3480-3530	8.25-8.10	860-1100	280-450	370-540		
ML112CA-H3	4.0	220-277/380-480	13.6-11.8/7.80-6.80	0.91-0.82	88.5	3510-3540	10.8-10.8	1000-1470	330-530	420-670		
ML132DA-H3	5.5	220-277/380-480	18.4-16.2/10.6-9.30	0.90-0.80	89.5	3510-3550	15.0-15.0	1020-1480	320-530	400-660		
ML132EA-H3	7.5	220-277/380-480	24.6-20.8/14.2-12.0	0.90-0.82	90.2	3490-3530	20.6-20.6	680-1050	200-310	240-370		
ML160BA-H3	11	220-277/380-480	36.0-30.0/20.8-17.2	0.89-0.83	91.0	3520-3550	30.0-30.0	580-890	220-350	240-390		
ML160BB-H3	15	220-277/380-480	48.5-39.0/28.0-22.4	0.90-0.86	91.0	3520-3550	40.5-40.5	580-890	200-330	230-370		
ML160BC-H3	18.5	220-277/380-480	59.5-48.5/34.5-28.0	0.89-0.84	91.7	3520-3560	50.0-50.0	670-1100	140-260	280-490		
ML180BA-H3	22	220-277/380-480	69.5-56.5/40.0-32.5	0.91-0.91	91.7	3520-3560	59.5-59.5	650-1040	210-340	250-390		

Electrical data

2-pole motors 60 Hz, 200 V

ML Type Designation	KW	60 HZ VOLTAGE	Full Load Current	Power Factor	NEMA	Speed	Full Load	Locked	Locked	Break-down		
							Torque	Rotor Current	Rotor Torque	Torque		
							(Cos Phi)	%	RPM	NM	%	%
ML71AB	0.37	200-230/346-400	1.65-1.50/0.96-0.87	0.85-0.76	80.0*	3410-3470	1.04-1.04	550-650	260-350	300-400		
ML71BA	0.55	200-230/346-400	2.36-2.14/1.36-1.24	0.85-0.76	83.0*	3390-3460	1.54-1.54	500-600	290-390	320-430		
ML80AA-H3	0.75	200-255/346-440	3.25-3/1.86-1.76	0.86-0.77	77.0	3410-3470	2.10-2.10	600-740	280-380	330-440		
ML80CA-H3	1.1	200-255/346-440	4.55-4.4/2.65-2.5	0.88-0.80	84.0	3420-3470	3.10-3.05	430-500	240-310	280-380		
ML90CC-H3	1.5	200-255/346-440	5.85-4.95/3.4-2.85	0.90-0.81	85.5	3470-3530	4.10-4.10	780-1050	270-430	330-530		
ML90FA-H3	2.2	200-230/346-400	8.45-7.65/4.85-4.45	0.91-0.87	86.5	3470-3530	6.00-6.00	780-1100	280-450	330-530		
ML100DA-H3	3.0	200-230/346-400	11.8-11/6.80-6.30	0.91-0.87	87.5	3480-3530	8.25-8.10	860-1100	280-450	370-540		
ML112CA-H3	4.0	200-230/346-400	15.0-13.8/8.55-7.95	0.91-0.82	88.5	3510-3540	10.8-10.8	1000-1470	330-530	420-670		
ML132DA-H3	5.5	200-230/346-400	20.2-18.8/11.7-10.8	0.90-0.85	89.5	3510-3550	15.0-15.0	1020-1480	320-530	400-660		
ML132EA-H3	7.5	200-230/346-400	22.2-24.7/15.5-14.3	0.90-0.86	90.2	3490-3530	20.6-20.6	680-1050	200-310	240-370		
ML160BA-H3	11	200-230/346-400	39.5-35.9/22.8-21	0.89-0.86	91.0	3520-3550	30.0-30.0	580-890	220-350	240-390		
ML160BB-H3	15	200-230/346-400	53.5-47.6/30.7-28.7	0.90-0.88	91.0	3520-3550	40.5-40.5	580-890	200-330	230-370		
ML160BC-H3	18.5	200-230/346-400	65-58.6/37.8-34	0.89-0.87	91.7	3520-3560	50.0-50.0	670-1100	140-260	280-490		
ML180BA-H3	22	200-230/346-400	76-68.5/44-39.5	0.91-0.91	91.7	3520-3560	59.5-59.5	650-1040	210-340	250-390		

2-pole motors 60 Hz, 460 V

ML Type Designation	KW	60 HZ VOLTAGE	Full Load Current	Power Factor	NEMA	Speed	Full Load	Locked	Locked	Break-down		
							Torque	Rotor Current	Rotor Torque	Torque		
							(Cos Phi)	%	RPM	NM	%	%
ML80AA-H3	0.75	380-440	1.70-1.60	0.86-0.77	77.0	3410-3470	2.10-2.10	600-740	280-380	330-440		
ML80CA-H3	1.1	380-440	2.40-2.30	0.88-0.80	84.0	3420-3470	3.10-3.05	430-500	240-310	280-380		
ML90CC-H3	1.5	380-480	3.10-2.70	0.90-0.81	85.5	3470-3530	4.10-4.10	780-1050	270-430	330-530		
ML90FA-H3	2.2	380-480	4.45-3.70	0.91-0.85	86.5	3470-3530	6.00-6.00	780-1100	280-450	330-530		
ML100DA-H3	3.0	380-480	6.20-5.40	0.91-0.84	87.5	3480-3530	8.25-8.10	860-1100	280-450	370-540		

Electrical data

2-pole motors 50 Hz, 230/400 V

ML Type Designation	KW	50 HZ VOLTAGE	Full Load Current	Power Factor	Efficiency	Speed	Full Load	Locked	Locked	Break-down
							Torque	Rotor Current	Rotor Torque	Torque
ML71AB	0.37	220-240/380-415	1.74/1.00	0.80-0.70	78.5*	2850-2880	1.26-1.26	490-530	300-360	330-400
ML71BA	0.55	220-240/380-415	2.50/1.44	0.80-0.70	80.0*	2830-2850	1.86-1.86	580-620	330-390	350-420
ML80AA-H3	0.75	220-240/380-415	3.30/1.90	0.81-0.71	80.7	2840-2870	2.50-2.50	580-620	330-390	370-440
ML80CA-H3	1.1	220-240/380-415	4.35/2.50	0.83-0.76	82.7	2840-2870	3.70-3.60	450-500	300-350	340-410
ML90CC-H3	1.5	220-240/380-415	5.45/3.15	0.87-0.82	84.2	2890-2910	5.00-5.00	850-930	320-390	370-440
ML90FA-H3	2.2	220-240/380-415	7.70/4.45	0.89-0.87	85.9	2890-2910	7.25-7.25	850-950	330-390	370-440
ML100DA-H3	3.0	220-240/380-415	11.0/6.30	0.87-0.82	87.1	2900-2920	9.90-9.90	840-920	320-390	410-460
ML112CA-H3	4.0	220-240/380-415	13.6/7.90	0.87-0.87	88.1	2920-2940	13.0-13.0	1000-1110	400-460	520-520
ML132DA-H3	5.5	220-240/380-415	19.0/11.0	0.87-0.82	89.2	2920-2940	17.8-17.8	1080-1180	370-460	460-550
ML132EA-H3	7.5	220-240/380-415	25.0-24.2/14.4-14.0	0.88-0.82	90.1	2910-2920	24.6-24.6	780-910	220-260	280-330
ML160BA-H3	11	220-240/380-415	36.0-34.5/20.8-19.8	0.88-0.84	91.2	2940-2950	36.0-36.0	660-780	240-280	290-350
ML160BB-H3	15	220-240/380-415	48.5-45.0/28.0-26.0	0.89-0.87	91.9	2930-2950	49.0-49.0	660-780	230-280	280-330
ML160BC-H3	18.5	220-240/380-415	59.5-56.5/34.5-32.5	0.89-0.85	92.4	2940-2950	60.0-60.0	830-980	200-250	350-430
ML180BA-H3	22	220-240/380-415	68.5-64/39.5-37	0.90-0.90	92.7	2950-2950	71.5-71.0	830-830	280-280	320-320

Electrical data

2-pole motors 50 Hz, 200/380 V

ML Type Designation	KW	50 HZ VOLTAGE	Full Load Current	Power Factor	Efficiency	Speed	Full Load	Locked	Locked	Break-down
							Torque	Rotor Current	Rotor Torque	Torque
ML71AB	0.37	200-220/346-380	1.90/1.10	0.80-0.70	78.5*	2850-2880	1.26-1.26	490-530	300-360	330-400
ML71BA	0.55	200-220/346-380	2.75/1.58	0.80-0.70	80.0*	2830-2850	1.86-1.86	480-520	330-390	350-420
ML80AA-H3	0.75	200-220/346-380	3.6/2.08	0.81-0.71	80.7	2840-2870	2.50-2.50	580-620	330-390	370-440
ML80CA-H3	1.1	200-220/346-380	4.75/2.75	0.83-0.76	82.7	2840-2870	3.70-3.60	450-500	300-350	340-410
ML90CC-H3	1.5	200-220/346-380	5.95/3.45	0.87-0.82	84.2	2890-2910	5.00-5.00	850-930	320-390	370-440
ML90FA-H3	2.2	200-220/346-380	8.45/4.85	0.89-0.87	85.9	2890-2910	7.25-7.25	850-950	330-390	370-440
ML100DA-H3	3.0	200-220/346-380	12/6.90	0.87-0.82	87.1	2900-2920	9.90-9.90	840-920	320-390	410-460
ML112CA-H3	4.0	200-220/346-380	15.0/8.65	0.87-0.87	88.1	2920-2940	13.0-13.0	1000-1110	400-460	520-520
ML132DA-H3	5.5	200-220/346-380	21/12.2	0.87-0.82	89.2	2920-2940	17.8-17.8	1080-1180	370-460	460-550
ML132EA-H3	7.5	200-220/346-380	27.5-26.5/15.8-15.4	0.88-0.82	90.1	2910-2920	24.6-24.6	780-910	220-260	280-330
ML160BA-H3	11	200-220/346-380	39.5-37.5/22.8-21.8	0.88-0.84	91.2	2940-2950	36.0-36.0	660-780	240-280	290-350
ML160BB-H3	15	200-220/346-380	53.5-49.5/31-28.5	0.89-0.87	91.9	2930-2950	49.0-49.0	660-780	230-280	280-330
ML160BC-H3	18.5	200-220/346-380	65.5-62/38-35.5	0.89-0.85	92.4	2940-2950	60.0-60.0	830-980	200-250	350-430
ML180BA-H3	22	200-220/346-380	75.5-68/43.5-39.5	0.90-0.90	92.7	2950-2950	71.5-71.0	830-830	280-280	320-320

2-pole motors 50 Hz, 400 V

ML Type Designation	KW	50 HZ VOLTAGE	Full Load Current	Power Factor	Efficiency	Speed	Full Load	Locked	Locked	Break-down
							Torque	Rotor Current	Rotor Torque	Torque
ML80AA-H3	0.75	380-415	1.90	0.81-0.71	80.7	2840-2870	2.50-2.50	580-620	330-390	370-440
ML80CA-H3	1.1	380-415	2.50	0.83-0.76	82.7	2840-2870	3.70-3.60	450-500	300-350	340-410
ML90CC-H3	1.5	380-415	3.15	0.87-0.82	84.2	2890-2910	5.00-5.00	850-930	320-390	370-440
ML90FA-H3	2.2	380-415	4.45	0.89-0.87	85.9	2890-2910	7.25-7.25	850-950	330-390	370-440
ML100DA-H3	3.0	380-415	6.30	0.87-0.82	87.1	2900-2920	9.90-9.90	840-920	320-390	410-460
ML112CA-H3	4.0	380-415	7.90	0.87-0.87	88.1	2920-2940	13.0-13.0	1000-1110	400-460	520-520
ML132DA-H3	5.5	380-415	11.0	0.87-0.82	89.2	2920-2940	17.8-17.8	1080-1180	370-460	460-550
ML132EA-H3	7.5	380-415	14.4-14.0	0.88-0.82	90.1	2910-2920	24.6-24.6	780-910	220-260	280-330
ML160BA-H3	11	380-415	20.8-19.8	0.88-0.84	91.2	2940-2950	36.0-36.0	660-780	240-280	290-350
ML160BB-H3	15	380-415	28.0-26.0	0.89-0.87	91.9	2930-2950	49.0-49.0	660-780	230-280	280-330
ML160BC-H3	18.5	380-415	34.5-32.5	0.89-0.85	92.4	2940-2950	60.0-60.0	830-980	200-250	350-430
ML180BA-H3	22	380-415	39.5/22.8	0.90-0.90	92.7					

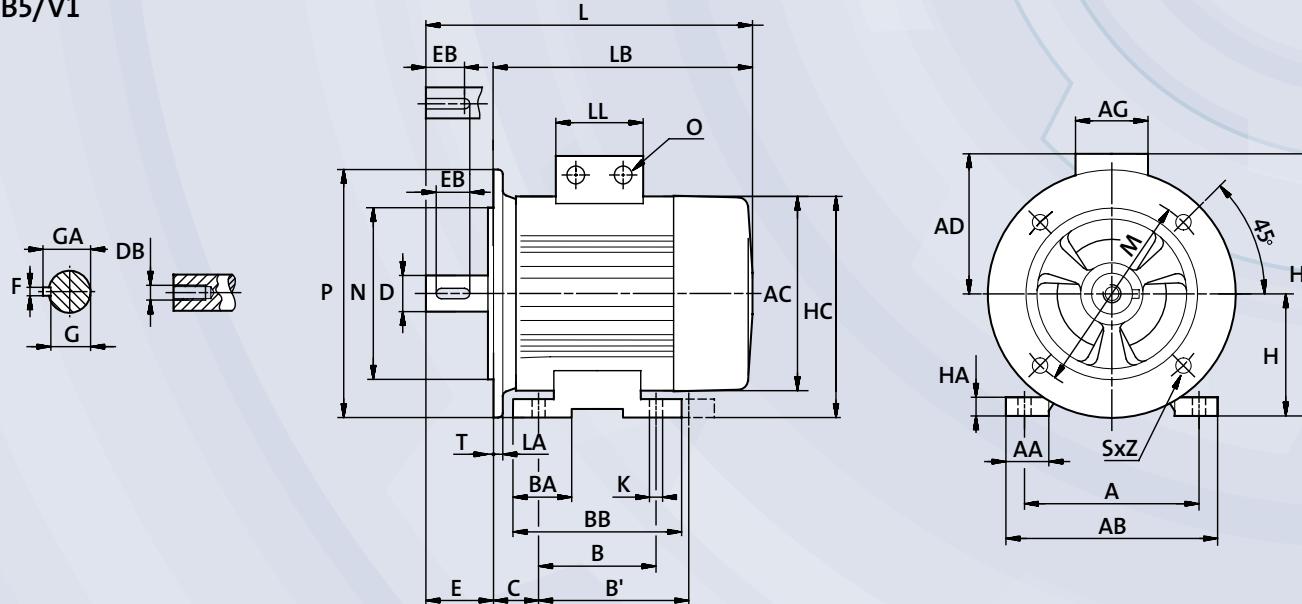
Dimensions

Frame size	Pole	p_2 [kW]	Short type designation	Stator housing							Shaft end							Flange B5/V1							Flange B14/V18					Cable entry
				AC	AD	AG	L	LB	LL	D	DB	E	EB	F	G	GA	LA	M	N	P	SxZ	T	LA	M	N	P	SxZ	T	O	
ML 71	2	0.37	ML71AB	141	109	82	221	191	82	14 (j6)	M5	30	22	5	11.0	16.0	-	-	-	-	-	-	12 ¹⁾	85	70	105	M6 x 4	2.5	2 x M20 x 1.5	
		0.55	ML71BA																											
ML 80	2	0.75	ML80AA-H3	141	109	82	271	231	82	19 (j6)	M6	40	32	6	15.5	21.5	-	-	-	-	-	-	12 ¹⁾	100	80	120	M6 x 4	3.0	2 x M20 x 1.5	
		1.1	ML80CA-H3																											
ML 90	2	1.5	ML90CC-H3	178	110	162	331	281	103	24(j6)	M8	50	40	8	20.0	27.0	-	-	-	-	-	-	13 ¹⁾	115	95	135	M8 x 4	3.0	4 x M20 ²⁾	
		2.2	ML90FA-H3																											
ML 100	2	3.0	ML100DA-H3	198	120	162	395	335	103	28 (j6)	M10	60	50	8	24.0	31.0	-	-	-	-	-	-	14 ¹⁾	130	110	160	M8 x 4	3.5	4 x M20 ²⁾	
ML 112	2	4.0	ML112CA-H3	220	134	202	432	372	103	28(j6)	M10	60	50	8	24.0	31.0	-	-	-	-	-	-	14 ¹⁾	130	110	160	M8 x 4	3.5	4 x M25 ²⁾	
ML 132	2	5.5	ML132DA-H3	220	134	202	471	391	103	38 (k6)	M12	80	70	10	33.0	41.0	12	265	230	300	D15 x 4 (M12)	4.0	-	-	-	-	-	4 x M25 ²⁾		
		7.5	ML132EA-H3																											
ML 160	2	11.0	ML160BA-H3	314	204	243	581	471	213	42 (k6)	M16	110	82	12	37.0	45.0	12	300	250	350	D19 x 4 (M16)	5.0	-	-	-	-	-	4 x M40/2 x M20 ²⁾		
		15.0	ML160BB-H3																											
		18.5	ML160BC-H3																											
ML 180	2	22.0	ML180BA-H3	314	204	243	651	541	213	48 (K6)	M16	110	100	14	43.0	51.5	12	300	250	350	D19 x 4 (M16)	5.0	-	-	-	-	-	4 x M40/2 x M20 ²⁾		

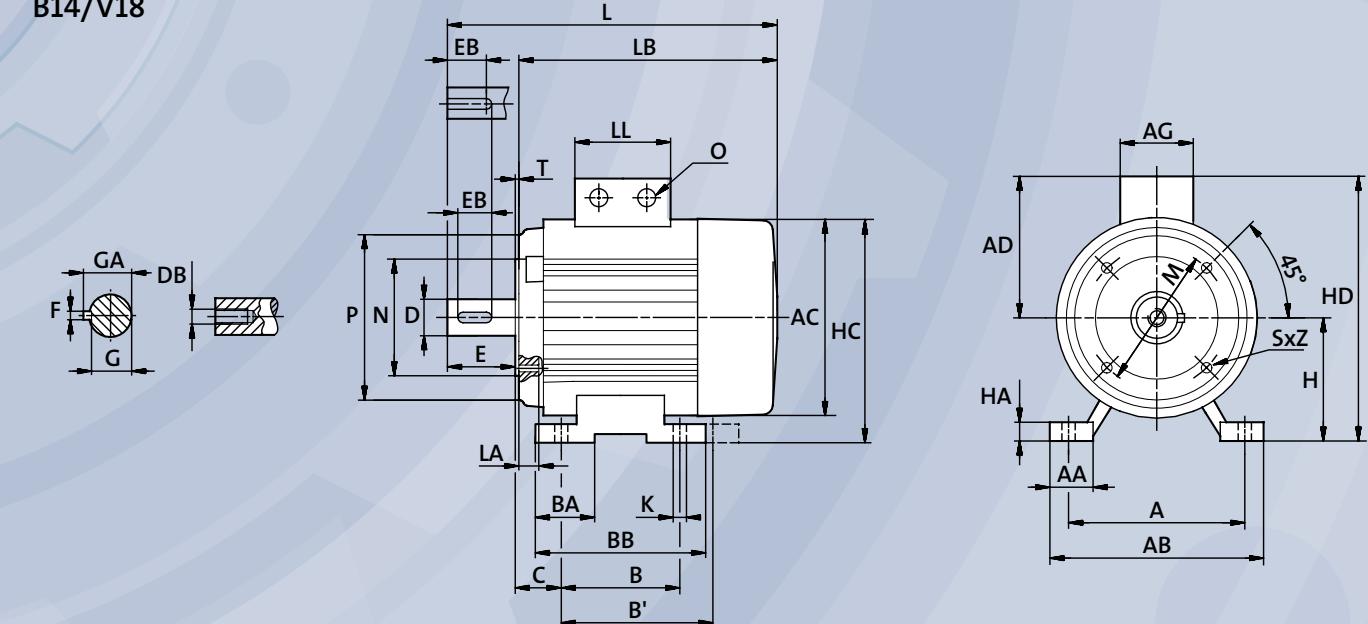
¹⁾ When fitting a component on the motor flange, check that the through-going screws do not penetrate deeper into the flange than the dimension LA. If the screws are too long, they can be screwed into the stator windings.

²⁾ Knockouts

B5/V1



B14/V18



Doing business with Grundfos

Grundfos has been manufacturing high-quality electrical motors for more than 30 years, and as one of the world's leading pump manufacturers, we know better than anyone what is required of a reliable electrical motor.

Cost of Ownership is an important consideration when choosing a motor for a specific task. At Grundfos we define Cost of Ownership as the total sum of both the costs and benefits of having a business relationship with us. An important element of this is how Grundfos can assist in reducing operation costs through technical advice, customer training, service, and reliable logistics.

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