

Rated output at 60 Hz	Frame size	Operating values at rated output						Order No.	Price	Weight
		Rated speed at 60 Hz	Rated torque at 60 Hz	EPACT with CC No. CC 032A	Nominal efficiency at 60 Hz	Power factor at 60 Hz 4/4-load	Rated current at 460 V, 60 Hz	For Order No. suppl- ements for voltage, type of construction and explosion protection zones according to ATEX, see tables below	IM B3 type of construc- tion approx.	
P_{rated} HP	FS	n_{rated} rpm	T_{rated} Nm		η_{rated} %	$\cos\phi_{\text{rated}}$	I_{rated} A		m kg	
2-pole, 3600 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, for use in the North American market according to EPACT										
30	180 M	3560	60	Yes	93	0.88	34	1LG6 183-2AA□□	180	
40	200 L	3565	80	Yes	91.7	0.88	46	1LG6 206-2AA□□	225	
50	200 L	3565	100	Yes	92.4	0.89	57	1LG6 207-2AA□□	255	
60	225 M	3570	120	Yes	93.6	0.89	67	1LG6 223-2AA□□	330	
75	225 M	3570	150	Yes	94.5	0.9	83	1LG6 228-2AA□□ ¹⁾	390	
75	250 M	3578	149	No	93.6	0.89	84	1LG6 253-2AA□□	420	
100	250 M	3580	199	Yes	94.1	0.89	112	1LG6 258-2AA□□ ¹⁾	470	
100	280 S	3580	199	No	95	0.89	110	1LG6 280-2AB□□	530	
125	280 M	3580	249	Yes	95	0.9	136	1LG6 283-2AB□□	615	
150	280 M	3580	299	Yes	95	0.9	164	1LG6 288-2AA□□ ¹⁾	660	
150	315 S	3585	298	Yes	94.5	0.91	164	1LG6 310-2AB□□	790	
175	315 M	3586	348	Yes	95	0.91	190	1LG6 313-2AB□□	915	
200	315 L	3588	397	Yes	95.4	0.91	215	1LG6 316-2AB□□	1055	
250	315 L	3588	496	No	95.4	0.93	265	1LG6 317-2AB□□	1245	
300	315 L	3591	595	No	95.4	0.92	320	1LG6 318-2AA□□ ¹⁾	1330	

Special versions according to ATEX

Motor type		Zone 2		VIK (includes Zone 2) ²⁾		Zone 21		Zone 22	
		Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)
	Frame size	Order code M72	Order code M73	Order code K30	On request	Order code M34	Order code M38	Order code M35	Order code M39
1LG6	180	✓	✓	✓	✓	✓	✓	✓	✓
	200	✓	✓	✓	✓	✓	✓	✓	✓
	225	✓	✓	✓	✓	✓	✓	✓	✓
	250	✓	✓	✓	✓	✓	✓	✓	✓
	280	✓	✓	✓	✓	✓	✓	✓	✓
	315	✓	✓	✓	✓	✓	✓	✓	✓

✓ With additional charge

The motors can also be order in design for Zones 2 and 22 for non-conducting dust (IP55):
Mains-fed operation – order code **M74**
Converter-fed operation with derating – order code **M75**
See “Special versions” in the “Options” under “Options”.

The motors can also be used for 50 Hz “High Efficiency”.

1) Only 60 Hz data according to EPACT on the rating plate.
2) If the marking Ex nA II is required in addition to VIK on the rating plate, this must be ordered using order code **C27**. The VIK version is not possible in combination with Zone 21 and 22.

Order No.	Locked-rotor torque	Locked-rotor current	Breakdown torque	Torque class	Moment of inertia	Noise at rated output	
	with direct starting torque	as multiple of rated current	torque			Measuring surface sound pressure level at 60 Hz	Sound pressure level at 60 Hz
	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}			CL	J kgm ²
2-pole, 3600 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, for use in the North American market according to EPACT							
1LG6 183-2AA□□	2.7	7.9	3.7	16	0.086	72	85
1LG6 206-2AA□□	2.7	7.8	3.7	16	0.15	75	88
1LG6 207-2AA□□	2.8	7.8	3.7	16	0.18	75	88
1LG6 223-2AA□□	2.8	8.3	3.6	16	0.27	74	87
1LG6 228-2AA□□	3.3	8.7	3.7	16	0.32	74	87
1LG6 253-2AA□□	2.7	7.5	3.2	16	0.47	75	88
1LG6 258-2AA□□	2.8	8.4	3.5	16	0.57	79	92
1LG6 280-2AB□□	2.8	7.9	3.4	13	0.83	77	90
1LG6 283-2AB□□	2.9	8.3	3.4	13	1	77	90
1LG6 288-2AA□□	3.1	8.5	3.6	16	1.16	77	90
1LG6 310-2AB□□	2.6	7.5	3.1	13	1.4	81	94
1LG6 313-2AB□□	3	8.3	3.3	13	1.6	81	94
1LG6 316-2AB□□	3	8.4	3.5	13	2.1	81	94
1LG6 317-2AB□□	3.2	8.6	3.4	13	2.5	81	94
1LG6 318-2AA□□	4.1	10	3.9	16	2.74	83	96

Order No. supplements

Motor type	Penultimate position: Voltage code		Final position: Type of construction code						
	60 Hz		Without flange	With flange			With standard flange		With special flange
	460 VY	460 VΔ	IM B3/6/7/8, IM V6 ^{1) 2)}	IM B5, IM V3 ^{1) 3) 4)}	IM V1 with protective cover ^{1) 3) 5)}	IM B35	IM B14, IM V19 ¹⁾	IM B34	IM B14, IM V19 ¹⁾
	(see "Introduction" for outputs at 60 Hz)								
	1	6	0	1	4	6	2	7	3
1LG6 18 . - . . . □□	○	○	□	✓	✓	✓	–	–	–
1LG6 20 . - . . . □□	○	○	□	✓	✓	✓	–	–	–
1LG6 22 . - . . . □□	○	○	□	✓	✓	✓	–	–	–
1LG6 25 . - . . . □□	○	○	□	✓	✓	✓	–	–	–
1LG6 28 . - . . . □□	○	○	□	✓	✓	✓	–	–	–
1LG6 310 - . . . □□	○	○	□	✓	✓	✓	–	–	–
1LG6 313 - . . . □□									
1LG6 316 - . . . □□	–	○	□ ⁶⁾	–	✓ ⁷⁾	✓	–	–	–
1LG6 317 - . . . □□									
1LG6 318 - . . . □□									

- Standard version
- Without additional charge
- ✓ With additional charge
- Not possible

Order other voltages with voltage code **9** in the penultimate position and the corresponding order code (see “Special versions” in the “Options” under “Voltages”).

Order other types of construction with type of construction code **9** in the final position and the corresponding order code (see “Special versions” in the “Options” under “Types of construction”).

¹⁾ The following applies for explosion-proof motors: In the case of the types of construction with shaft extension down, the version “with protective cover” is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air-flow.

²⁾ If motors 1LG6 183-... to 1LG6 318-... (motor series 1LG6 frame sizes 180 M to 315 L) in types of construction with feet IM B6, IM B7 or IM V6 are fixed to the wall, it is recommended that the motor feet are supported.

³⁾ 1LG6 220-... to 1LG6 318-... motors (motor series 1LG6 frame sizes 225 S to 315 L) are supplied with two screw-in eyebolts in accordance with IM B5, whereby one can be relocated in accordance with IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.

⁴⁾ Type of construction IM V3 is only possible using type of construction code **9** and order code **M1G**.

⁵⁾ The “Second shaft extension” option, order code **K16** is not possible.

⁶⁾ Type of construction IM V6 is only possible using type of construction code **9** and order code **M1E**.

⁷⁾ 2-pole motors in 60 Hz version available on request.

Rated output at 60 Hz	Frame size	Operating values at rated output						Order No.	Price	Weight
		Rated speed at 60 Hz	Rated torque at 60 Hz	EPACT with CC No. CC 032A	Nominal efficiency at 60 Hz	Power factor at 60 Hz 4/4-load	Rated current at 460 V, 60 Hz	For Order No. supplе- ments for voltage, type of construction and explosion protection zones according to ATEX, see tables below	IM B3 type of construc- tion approx.	
P_{rated} HP	FS	n_{rated} rpm	T_{rated} Nm		η_{rated} %	$\cos\phi_{rated}$	I_{rated} A		m kg	
4-pole, 1800 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, for use in the North American market according to EPACT										
25	180 M	1775	100	Yes	92.4	0.82	31	1LG6 183-4AA□□	155	
30	180 L	1775	120	Yes	92.4	0.83	36.5	1LG6 186-4AA□□	180	
40	200 L	1775	160	Yes	93	0.84	48	1LG6 207-4AA□□	225	
50	225 S	1785	199	No	93.6	0.84	60	1LG6 220-4AA□□	290	
60	225 M	1785	239	Yes	94.1	0.85	70	1LG6 223-4AA□□	330	
75	225 M	1785	299	Yes	94.1	0.85	88	1LG6 228-4AA□□ ¹⁾	355	
75	250 M	1790	298	No	94.5	0.86	86	1LG6 253-4AA□□	460	
100	250 M	1788	398	Yes	94.5	0.86	116	1LG6 258-4AA□□ ¹⁾	495	
100	280 S	1788	398	No	94.5	0.86	114	1LG6 280-4AA□□	575	
125	280 M	1790	497	Yes	95	0.86	144	1LG6 283-4AA□□	675	
150	280 M	1788	598	Yes	95	0.86	172	1LG6 288-4AA□□ ¹⁾	710	
150	315 S	1791	596	Yes	95	0.87	170	1LG6 310-4AA□□	810	
175	315 M	1791	696	Yes	95.4	0.87	198	1LG6 313-4AA□□	965	
200	315 L	1792	795	Yes	95.4	0.87	225	1LG6 316-4AA□□	1105	
250	315 L	1792	994	No	95.8	0.87	280	1LG6 317-4AA□□	1305	
300	315 L	1792	1193	No	95.8	0.87	335	1LG6 318-4AA□□ ¹⁾	1345	

Special versions according to ATEX

Motor type		Zone 2		VIK (includes Zone 2) ²⁾		Zone 21		Zone 22	
		Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)
	Frame size	Order code M72	Order code M73	Order code K30	On request	Order code M34	Order code M38	Order code M35	Order code M39
1LG6	180	✓	✓	✓	✓	✓	✓	✓	✓
	200	✓	✓	✓	✓	✓	✓	✓	✓
	225	✓	✓	✓	✓	✓	✓	✓	✓
	250	✓	✓	✓	✓	✓	✓	✓	✓
	280	✓	✓	✓	✓	✓	✓	✓	✓
	315	✓	✓	✓	✓	✓	✓	✓	✓

✓ With additional charge

The motors can also be orderd in design for Zones 2 and 22 for non-conducting dust (IP55):
Mains-fed operation – order code **M74**
Converter-fed operation with derating – order code **M75**
See “Special versions” in the “Options” under “Options”.

The motors can also be used for 50 Hz “High Efficiency”.

1) Only 60 Hz data according to EPACT on the rating plate.
2) If the marking Ex nA II is required in addition to VIK on the rating plate, this must be ordered using order code **C27**. The VIK version is not possible in combination with Zone 21 and 22.

Order No.	Locked-rotor torque	Locked-rotor current	Breakdown torque	Torque class	Moment of inertia	Noise at rated output	
	with direct starting torque	as multiple of rated current	torque			Measuring surface sound pressure level at 60 Hz	Sound pressure level at 60 Hz
	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	CL	J kgm ²	L_{pA} dB(A)	L_{WA} dB(A)
4-pole, 1800 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, for use in the North American market according to EPACT							
1LG6 183-4AA□□	2.9	7.1	3.3	16	0.12	65	78
1LG6 186-4AA□□	2.8	7.4	3.4	16	0.14	65	78
1LG6 207-4AA□□	3	7.7	3.7	16	0.23	66	79
1LG6 220-4AA□□	3.1	7.5	3.4	16	0.4	65	78
1LG6 223-4AA□□	3.3	7.9	3.5	16	0.49	65	78
1LG6 228-4AA□□	3	7.8	3.3	16	0.66	64	78
1LG6 253-4AA□□	2.9	8.2	3.4	16	0.86	68	81
1LG6 258-4AA□□	3	8.1	3.3	16	0.99	72	86
1LG6 280-4AA□□	2.9	7.6	3.2	16	1.4	71	84
1LG6 283-4AA□□	3	8.2	3.4	16	1.7	71	84
1LG6 288-4AA□□	3.1	8.4	3.5	16	1.88	71	85
1LG6 310-4AA□□	3.1	7.8	3.2	16	2.3	75	88
1LG6 313-4AA□□	3.2	8.4	3.3	16	2.9	75	88
1LG6 316-4AA□□	3.7	9	3.6	16	3.5	75	88
1LG6 317-4AA□□	4	9.1	3.7	16	4.2	75	88
1LG6 318-4AA□□	4	9.3	3.7	16	4.5	81	94

Order No. supplements

Motor type	Penultimate position: Voltage code		Final position: Type of construction code						
	60 Hz		Without flange	With flange			With standard flange		With special flange
	460 VY	460 VΔ	IM B3/6/7/8, IM V6 ^{1) 2)}	IM B5, IM V3 ^{1) 3) 4)}	IM V1 with protective cover ^{1) 3) 5)}	IM B35	IM B14, IM V19 ¹⁾	IM B34	IM B14, IM V19 ¹⁾
	1	6	0	1	4	6	2	7	3
1LG6 18 □□	○	○	□	✓	✓	✓	–	–	–
1LG6 20 □□	○	○	□	✓	✓	✓	–	–	–
1LG6 22 □□	○	○	□	✓	✓	✓	–	–	–
1LG6 25 □□	○	○	□	✓	✓	✓	–	–	–
1LG6 28 □□	○	○	□	✓	✓	✓	–	–	–
1LG6 310 - . . . □□	○	○	□	✓	✓	✓	–	–	–
1LG6 313 - . . . □□									
1LG6 316 - . . . □□	–	○	□ ⁶⁾	–	✓	✓	–	–	–
1LG6 317 - . . . □□									
1LG6 318 - . . . □□									

- Standard version
- Without additional charge
- ✓ With additional charge
- Not possible

Order other voltages with voltage code **9** in the penultimate position and the corresponding order code (see “Special versions” in the “Options” under “Voltages”).

Order other types of construction with type of construction code **9** in the final position and the corresponding order code (see “Special versions” in the “Options” under “Types of construction”).

- The following applies for explosion-proof motors: In the case of the types of construction with shaft extension down, the version “with protective cover” is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air-flow.
- If motors 1LG6 183-... to 1LG6 318-... (motor series 1LG6 frame sizes 180 M to 315 L) in types of construction with feet IM B6, IM B7 or IM V6 are fixed to the wall, it is recommended that the motor feet are supported.
- 1LG6 220-... to 1LG6 318-... motors (motor series 1LG6 frame sizes 225 S to 315 L) are supplied with two screw-in eyebolts in accordance with IM B5, whereby one can be relocated in accordance with IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.
- Type of construction IM V3 is only possible using type of construction code **9** and order code **M1G**.
- The “Second shaft extension” option, order code **K16** is not possible.
- Type of construction IM V6 is only possible using type of construction code **9** and order code **M1E**.

Rated output at 60 Hz	Frame size	Operating values at rated output							Order No.	Price	Weight
		Rated speed at 60 Hz	Rated torque at 60 Hz	EPACT with CC No. CC 032A	Nominal efficiency at 60 Hz	Power factor at 60 Hz 4/4-load	Rated current at 460 V, 60 Hz		For Order No. suppl- ements for voltage, type of construction and explosion protection zones according to ATEX, see tables below		IM B3 type of construc- tion approx. <i>m</i> kg
<i>P</i> _{rated} HP	FS	<i>n</i> _{rated} rpm	<i>T</i> _{rated} Nm		<i>η</i> _{rated} %	cos <i>φ</i> _{rated}	<i>I</i> _{rated} A				
6-pole, 1200 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, for use in the North American market according to EPACT											
20	180 L	1178	121	Yes	91	0.8	25.5		1LG6 186-6AA□□		175
25	200 L	1180	151	Yes	91.7	0.79	32.5		1LG6 206-6AA□□		210
30	200 L	1180	181	Yes	91.7	0.8	38.5		1LG6 207-6AA□□		240
40	225 M	1184	241	Yes	93	0.82	49		1LG6 223-6AA□□		325
50	225 M	1184	301	Yes	93	0.83	61		1LG6 228-6AA□□¹⁾		355
50	250 M	1186	300	No	93	0.82	61		1LG6 253-6AA□□		405
60	250 M	1186	361	Yes	93.6	0.82	73		1LG6 258-6AA□□¹⁾		435
60	280 S	1190	359	No	94.1	0.83	72		1LG6 280-6AA□□		520
75	280 M	1190	449	No	94.5	0.83	89		1LG6 283-6AA□□		570
100	280 M	1190	599	Yes	94.5	0.84	118		1LG6 288-6AA□□¹⁾		615
100	315 S	1191	598	Yes	94.5	0.82	120		1LG6 310-6AA□□		760
125	315 M	1191	747	Yes	94.5	0.84	148		1LG6 313-6AA□□		935
150	315 L	1192	896	Yes	95	0.84	176		1LG6 316-6AA□□		1010
175	315 L	1192	1046	Yes	95	0.84	205		1LG6 317-6AA□□		1180
200	315 L	1192	1195	Yes	95.4	0.84	235		1LG6 318-6AA□□		1245

Special versions according to ATEX

Motor type		Zone 2		VIK (includes Zone 2) ²⁾		Zone 21		Zone 22	
	Frame size	Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)	Mains-fed operation	Converter-fed operation (FC)
		Order code M72	Order code M73	Order code K30	On request	Order code M34	Order code M38	Order code M35	Order code M39
1LG6	180	✓	✓	✓	✓	✓	✓	✓	✓
	200	✓	✓	✓	✓	✓	✓	✓	✓
	225	✓	✓	✓	✓	✓	✓	✓	✓
	250	✓	✓	✓	✓	✓	✓	✓	✓
	280	✓	✓	✓	✓	✓	✓	✓	✓
	315	✓	✓	✓	✓	✓	✓	✓	✓

✓ With additional charge

The motors can also be order in design for Zones 2 and 22 for non-conducting dust (IP55):
Mains-fed operation – order code **M74**
Converter-fed operation with derating – order code **M75**
See “Special versions” in the “Options” under “Options”.

The motors can also be used for 50 Hz “High Efficiency”.

1) Only 60 Hz data according to EPACT on the rating plate.
2) If the marking Ex nA II is required in addition to VIK on the rating plate, this must be ordered using order code **C27**. The VIK version is not possible in combination with Zone 21 and 22.

Order No.	Locked-rotor torque	Locked-rotor current	Breakdown torque	Torque class	Moment of inertia Noise at rated output		
	with direct starting torque	as multiple of rated current	torque			Measuring surface sound pressure level at 60 Hz	Sound pressure level at 60 Hz
	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	CL	J kgm ²	L_{pA} dB(A)	L_{WA} dB(A)
6-pole, 1200 rpm at 60 Hz, temperature class 155 (F), IP55 degree of protection, for use in the North American market according to EPACT							
1LG6 186-6AA□□	2.9	6.5	3	16	0.2	57	70
1LG6 206-6AA□□	2.9	6.5	2.7	16	0.29	65	78
1LG6 207-6AA□□	2.9	6.4	2.7	16	0.36	65	78
1LG6 223-6AA□□	3.4	7.2	3.4	16	0.63	62	75
1LG6 228-6AA□□	3.2	7.6	3.4	16	0.76	61	74
1LG6 253-6AA□□	3.4	7.4	2.9	16	0.93	63	76
1LG6 258-6AA□□	3.4	7.4	2.9	16	1.07	65	79
1LG6 280-6AA□□	3.6	7.7	3.1	16	1.4	62	75
1LG6 283-6AA□□	3.9	8.3	3.3	16	1.6	62	75
1LG6 288-6AA□□	4	8.4	3.3	16	1.94	64	78
1LG6 310-6AA□□	3.3	8.4	3.4	16	2.5	66	79
1LG6 313-6AA□□	3	7.9	3.1	16	3.2	66	79
1LG6 316-6AA□□	3.3	8.5	3.3	16	4	66	79
1LG6 317-6AA□□	3.6	8.9	3.6	16	4.7	66	79
1LG6 318-6AA□□	4	9.4	4	16	5.4	69	82

Order No. supplements

Motor type	Penultimate position: Voltage code		Final position: Type of construction code						
	60 Hz 460 VY 460 VΔ (see "Introduction" for outputs at 60 Hz)		Without flange IM B3/6/7/8, IM V6 ^{1) 2)}	With flange IM B5, IM V3 ^{1) 3) 4)}	IM V1 with protective cover ^{1) 3) 5)}	IM B35	With standard flange IM B14, ¹⁾ IM V19		With special flange IM B14, IM V19 ¹⁾
	1	6	0	1	4	6	2	7	3
1LG6 18 - ... □□	○	○	□	✓	✓	✓	–	–	–
1LG6 20 - ... □□	○	○	□	✓	✓	✓	–	–	–
1LG6 22 - ... □□	○	○	□	✓	✓	✓	–	–	–
1LG6 25 - ... □□	○	○	□	✓	✓	✓	–	–	–
1LG6 28 - ... □□	○	○	□	✓	✓	✓	–	–	–
1LG6 310 - ... □□	○	○	□	✓	✓	✓	–	–	–
1LG6 313 - ... □□	○	○	□	✓	✓	✓	–	–	–
1LG6 316 - ... □□	–	○	□ ⁶⁾	–	✓	✓	–	–	–
1LG6 317 - ... □□									
1LG6 318 - ... □□									

- Standard version
- Without additional charge
- ✓ With additional charge
- Not possible

Order other voltages with voltage code **9** in the penultimate position and the corresponding order code (see "Special versions" in the "Options" under "Voltages").

Order other types of construction with type of construction code **9** in the final position and the corresponding order code (see "Special versions" in the "Options" under "Types of construction").

- ¹⁾ The following applies for explosion-proof motors: In the case of the types of construction with shaft extension down, the version "with protective cover" is required. For types of construction with shaft extension pointing upwards, a suitable cover must be implemented to prevent small parts from falling into the fan cover (see the standard IEC/EN 60079-0). The cover must not block the cooling air-flow.
- ²⁾ If motors 1LG6 183-... to 1LG6 318-... (motor series 1LG6 frame sizes 180 M to 315 L) in types of construction with feet IM B6, IM B7 or IM V6 are fixed to the wall, it is recommended that the motor feet are supported.

- ³⁾ 1LG6 220-... to 1LG6 318-... motors (motor series 1LG6 frame sizes 225 S to 315 L) are supplied with two screw-in eyebolts in accordance with IM B5, whereby one can be relocated in accordance with IM V1 or IM V3. It is important to note that stress must not be applied perpendicular to the ring plane.
- ⁴⁾ Type of construction IM V3 is only possible using type of construction code **9** and order code **M1G**.
- ⁵⁾ The "Second shaft extension" option, order code **K16** is not possible.
- ⁶⁾ Type of construction IM V6 is only possible using type of construction code **9** and order code **M1E**.