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Technical specifications (continued)

Technical specifications of forced ventilation for 1MB1 explosion-proof motors (frame sizes 100 to 200) in the Ex tc (Zone 22) and Ex nA (Zone 2) versions

Technical specifications of separately driven fans (according to tolerances of EN 60034-1)

Frame size	Rated voltage range	Frequency	Power consumption	Rated current
	V	Hz	kW	A
100	1 AC 220 ... 277	50	0.066	0.28
	3 AC 200 ... 303 Δ	50	0.091	0.37
	3 AC 346 ... 525 Y	50	0.091	0.22
	1 AC 220 ... 277	60	0.075	0.30
	3 AC 220 ... 332 Δ	60	0.087	0.31
	3 AC 380 ... 575 Y	60	0.087	0.18
112	1 AC 220 ... 277	50	0.071	0.28
	3 AC 200 ... 303 Δ	50	0.097	0.35
	3 AC 346 ... 525 Y	50	0.097	0.20
	1 AC 220 ... 277	60	0.094	0.37
	3 AC 220 ... 332 Δ	60	0.103	0.31
	3 AC 380 ... 575 Y	60	0.103	0.18
132	1 AC 230 ... 277	50	0.098	0.40
	3 AC 200 ... 303 Δ	50	0.124	0.58
	3 AC 346 ... 525 Y	50	0.124	0.33
	1 AC 230 ... 277	60	0.149	0.57
	3 AC 220 ... 332 Δ	60	0.148	0.44
	3 AC 380 ... 575 Y	60	0.148	0.25
160 ... 200	1 AC 230 ... 277	50	0.253	0.97
	3 AC 200 ... 303 Δ	50	0.247	0.87
	3 AC 346 ... 525 Y	50	0.247	0.50
	3 AC 220 ... 332 Δ	60	0.360	0.93
	3 AC 380 ... 575 Y	60	0.360	0.56

Technical specifications of forced ventilation for 1MB1 explosion-proof motors (frame sizes 225 to 315) in the Ex tb (Zone 21), Ex tc (Zone 22) and Ex nA (Zone 2) versions

Frame size	Designation on rating plate of separately driven fan	Rated voltage range	Frequency	Rated speed	Power consumption	Rated current for rated voltage
		V	Hz	rpm	kW	A
225 M ... 280 M	1LA7073-2AA62-Z	3 AC 230 Δ	50	2800	0.550	1.36
		3 AC 400 Y	50	2800	0.550	0.79
		3 AC 460 Y	60	3400	0.630	1.32
315 – 2-pole	1LA9073-2LA92-Z	3 AC 230 Δ	50	2780	0.700	1.73
		3 AC 400 Y	50	2780	0.700	1.00
		3 AC 460 Y	60	3385	0.700	1.64
315 – 4, 6, 8-pole	1LA7073-2AA62-Z	3 AC 230 Δ	50	2800	0.550	1.36
		3 AC 400 Y	50	2800	0.550	0.79
		3 AC 460 Y	60	3400	0.630	1.32

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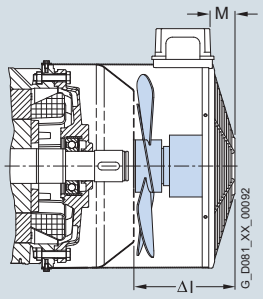
Technical specifications (continued)

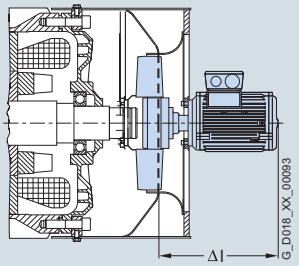
Dimensions and weights of the explosion-proof separately driven fans (order code **F70**)

1MB102, 1MB152, 1MB162, 1MB103, 1MB153, 1MB163
Frame sizes 100 to 200
Explosion-proof separately driven fan
Ex tc, Ex nA



Frame size	Type of protection/motor type Ex tc (Zone 22)/1MB102, 1MB152, 1MB162 Ex nA (Zone 2)/1MB103, 1MB153, 1MB163 ΔI	Weight approx.
	mm	kg
100	141	4
112	158	4.5
132	177	5.5
160	227	7
180	269	10
200	272	11

1MB151, 1MB161, 1MB152, 1MB162, 1MB153, 1MB163
Frame sizes 225 to 315
Explosion-proof separately driven fan
Ex tb, Ex tc, Ex nA



Frame size	Type of protection/motor type Ex tb (Zone 21)/1MB151, 1MB161 Ex tc (Zone 22)/1MB152, 1MB162 Ex nA (Zone 2)/1MB153, 1MB163 ΔI	Weight approx.
	mm	kg
225	267	24.5
250	272	27.5
280	270	30.5
315	280	38.5

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Technical specifications (continued)

VIK version

VIK = Verband der Industriellen Energie- und Kraftwirtschaft e.V. (German Association of the Energy and Power Supply Industry)

- **VIK standard version** –
  1LE1 + order code **C02**
  "VIK" identification on rating plate.
  ➔ Product spectrum catalog section 2.
- **VIK-Ex n version for line operation** –
  1MB1.3 + order code **C02**
  "VIK" and "Ex nA IIC T3 Gc" markings on the rating plate according to Directive 2014/34/EU (ATEX).
  ➔ Product spectrum in this catalog section.
- **VIK-Ex n version for converter operation** –
  1MB1.3 + order code **C02**+**B40**/**B41**+...
  "VIK" and "Ex nA IIC T3 Gc" markings on the rating plate and motor operating data for converter operation on the additional rating plate according to Directive 2014/34/EU (ATEX).

Both versions include technology for Zone 2 to type of protection Ex nA IIC T3 Gc. Motors up to frame size 355 can be supplied in accordance with the technical requirements of the VIK recommendation.

Minimum efficiency class:

- VIK standard version:
  IE3 from 7.5 kW in accordance with legal specifications (IE3 from 0.75 kW as of January 1, 2017)
- VIK-Ex n version:
  At least IE2 in accordance with March 2011 edition of VIK recommendation.

Notes:

- 8-pole motors or all motors < 0.75 kW are still possible as these motors are outside the power range specified for IE stamping.
- Motors in VIK version with mounted technology (brake, rotary pulse encoder and separately driven fan) are not compatible with Zone 2. Versions for Zone 21/22 are not possible.
- 1LA/1LG VIK motors: See Catalog D 81.1 · July 2011.

Ex certification EAC for the Eurasian customs union (Russia, Belarus, Kazakhstan)

EAC = Eurasian Conformity

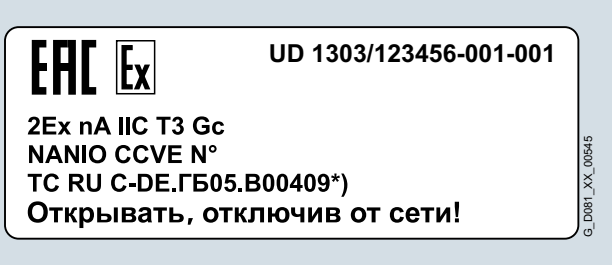
For the import and commissioning of explosion-proof motors in the Eurasian customs union, approval is required from a named Russian testing authority.

"EAC Ex certificate for the Eurasian customs union"
Order code **D35**

The explosion-proof motors in this catalog section all have Eurasian ex certification except for the following:

- 1MB10, frame sizes 80 and 90
- 1MB15, frame sizes 71 to 90
- 1MB15/6, frame sizes 225 to 315, in type of protection Ex tb
- 1MB1 in version for converter operation

When motors are ordered with order code **D35**, they are fitted with an additional rating plate displaying the logo "EAC Ex" and the Russian Ex marking.



Example: Additional rating plate

The "EAC Ex" logo can also be found on the package label. The motor must have an "EAC Ex certificate", although the certificate does not generally have to be shipped with the motor. The customs authorities use the motor article number to check the motor certification.
A copy of the EAC Ex certificate must be in the customer's possession before the motor is commissioned.
The certificates are available from the SIOS (Siemens Industry Online Support) portal as well as the Drive Technology Configurator (DT Configurator).

Coolant temperature

Coolant temperature –40 to +40 °C for explosion-proof motor

For all 1MB10 motors, frame sizes 100 to 160 and 1MB15/6, frame sizes 100 to 315 in explosion protection types Ex nA or Ex t (Zone 21/22), the operating ambient temperature range can be optionally increased to –40 °C. Extensive technical measures are necessary in this case.

Order code **D03**

Order code **D03** is not possible in combination with order code **H02** "Vibration-proof version".

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Selection and ordering data

The article number consists of a combination of digits and letters and is divided into three hyphenated blocks to provide a better overview, e.g.:
1MB1511-1DB22-2AB4-Z
R10

The first block (positions 1 to 7) identifies the motor type; the second block (positions 8 to 12) defines the motor frame size and length, the number of poles and in some cases the frequency/power; and in the third block (positions 13 to 16), the frequency/power, type of construction and other design features are encoded.

For deviations in the second and third block from the catalog codes either **Z** or **90** should be used as appropriate.

Ordering data:

- Complete Article No. and order code(s) or plain text
- If a quotation has been requested, please specify the quotation number in addition to the Article No.
- When ordering a complete motor as a spare part, please specify the works serial No. for the previously supplied motor as well as the Article No.

Structure of the Article No.:			Position:	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	
Positions 1 to 4 Digit, letter, letter, digit	Explosion-proof – Self-ventilated by fan mounted on and driven by rotor			**1**	**M**	**B**	**1**															
Position 5: Digit	Aluminum housing							**0**														
	Cast-iron housing Basic Line							**5**														
	Cast-iron housing Performance Line							**6**														
Positions 6 to 7: 2 digits	Ex tb IIIC (Ex Zone 21)	Motors with IE2 High Efficiency							**1**	**1**												
		Motors with IE1 Standard Efficiency							**1**	**2**												
		Motors with IE3 Premium Efficiency							**1**	**3**												
	Ex tc IIIB (Ex Zone 22)	Motors with IE2 High Efficiency							**2**	**1**												
		Motors with IE1 Standard Efficiency							**2**	**2**												
		Motors with IE3 Premium Efficiency							**2**	**3**												
	Ex nA IIC T3 (Ex Zone 2)	Motors with IE2 High Efficiency							**3**	**1**												
		Motors with IE1 Standard Efficiency							**3**	**2**												
		Motors with IE3 Premium Efficiency							**3**	**3**												
Positions 8, 9 and 11: Digit, letter, digit	**Motor frame size** (frame size as a combination of shaft height and overall length, encoded)											**0** ... **3**	**A** ... **E**		**0** ... **6**							
10th position: Letter	**No. of poles** A: 2-pole, B: 4-pole, C: 6-pole, D: 8-pole													**A** ... **D**								
Positions 12 and 13: 2 digits	**Voltage, circuit and frequency** (encoded with two digits, 9-0 requires order code M.. (e.g. M1Y))															**0** ... **9**		**0** ... **8**				
14th position: Letter	**Type of construction** (encoded with A ... V)																		**A** ... **V**			
15th position: Letter	**Motor protection** (encoded with A ... J)																			**A** ... **J**		
16th position: Digit	**Terminal box position** 4: Terminal box top, 5: Terminal box right, 6: Terminal box left, 7: Terminal box below																				**4** ... **7**	
	Special order versions: encoded – additional order code required not encoded – additional plain text required																					**- Z**

Ordering example

Selection criteria	Requirement	Structure of the Article No.
Motor type 1MB1	Self-ventilated motor with explosion protection of type Ex tb IIIC (Ex Zone 21), cast-iron version, with IE2 High Efficiency, IP55 degree of protection	**1MB1511-■■■■■-■■■■**
Motor frame size/No. of poles/speed	160 M/4-pole/1500 rpm	**1MB1511-1DB2■-■■■■**
Rated power	11 kW	
Voltage and frequency	230 VΔ/400 VY, 50 Hz	**1MB1511-1DB22-2■■■**
Type of construction with special version	IM B3	**1MB1511-1DB22-2A■■**
Motor protection	Motor protection with PTC thermistor with 3 embedded temperature sensors for disconnection	**1MB1511-1DB22-2AB■**
Terminal box position	Terminal box at top	**1MB1511-1DB22-2AB4**
Special version	Rotation of the terminal box by 90°, entry from DE	**1MB1511-1DB22-2AB4-Z** **R10**

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Selection and ordering data

P_{rated}, 50 Hz	P_{rated}, 60 Hz	Frame size	Operating values at rated power: n_{rated}, 50 Hz	T_{rated}, 50 Hz	IE class 50 Hz	IE class 60 Hz	η_{rated}, 50 Hz, 4/4	η_{rated}, 50 Hz, 3/4	η_{rated}, 50 Hz, 2/4	cosφ rated, 50 Hz, 4/4	I_{rated}, 50 Hz, 400 V	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	L_{pfA}, 50 Hz	L_{WA}, 50 Hz	**Aluminum series** **1MB1** – *IE3 version in accordance with IEC 60034-30* Article No.	$m_{IM\ B3}$	J	Torque class
kW	kW	FS	rpm	Nm			%	%	%		A				dB(A)	dB(A)		kg	kgm²	CL
• **Cooling: self-ventilated (IC 411)** • **Efficiency: IE3 Premium Efficiency** • **Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)**																				
2-pole: 3000 rpm at 50 Hz, 3600 rpm at 60 Hz [1]																				
0.75	**0.86**	**80 M**	2850	2.5	IE3	IE3	80.7	82.2	81.9	0.86	1.56	2.6	6.2	3	60	71	**1MB10■3-0DA2■-■■■■**	11	0.0011	16
1.1	**1.27**	**80 M**	2885	3.6	IE3	IE3	82.7	83.9	83.1	0.85	2.25	3	7.1	3.3	60	71	**1MB10■3-0DA3■-■■■■**	12	0.0013	16
1.5	**1.75**	**90 S**	2910	4.9	IE3	IE3	84.2	84.6	83.2	0.86	3	2.7	8.1	4.2	65	77	**1MB10■3-0EA0■-■■■■**	15	0.0021	16
2.2	**2.55**	**90 L**	2910	7.2	IE3	IE3	85.9	86.8	86.1	0.88	4.2	2.6	8.3	4	65	77	**1MB10■3-0EA4■-■■■■**	19	0.0031	16
3	**3.45**	**100 L**	2920	9.8	IE3	IE3	87.1	87.9	87.5	0.88	5.6	3.2	8.1	4.6	67	79	**1MB10■3-1AA4■-■■■■**	26	0.0054	16
4	**4.55**	**112 M**	2950	13	IE3	IE3	88.1	88.7	88.2	0.89	7.4	2.5	8.7	4	69	81	**1MB10■3-1BA2■-■■■■**	34	0.012	16
5.5	**6.3**	**132 S**	2950	18	IE3	IE3	89.2	90.1	89.7	0.9	9.9	1.9	7.3	3.7	68	80	**1MB10■3-1CA0■-■■■■**	43	0.024	16
7.5	**8.6**	**132 S**	2950	24	IE3	IE3	90.1	90.9	90.7	0.92	13.1	2.1	8.3	4	68	80	**1MB10■3-1CA1■-■■■■**	57	0.031	16
11	**12.6**	**160 M**	2955	36	IE3	IE3	91.2	91.3	90.2	0.87	20	2.5	7.6	3.8	70	82	**1MB10■3-1DA2■-■■■■**	75	0.053	16
15	**17.3**	**160 M**	2960	48	IE3	IE3	91.9	91.9	91	0.87	27	2.8	8.8	4.3	70	82	**1MB10■3-1DA3■-■■■■**	84	0.061	16
18.5	**21.3**	**160 L**	2955	60	IE3	IE3	92.4	92.8	92.3	0.9	32	2.8	8.3	3.9	70	82	**1MB10■3-1DA4■-■■■■**	94	0.068	16
4-pole: 1500 rpm at 50 Hz, 1800 rpm at 60 Hz [1]																				
0.55	**0.63**	**80 M**	1440	3.6	IE3	IE3	80.8	81.1	79.3	0.78	1.26	2.1	5.9	3.1	53	64	**1MB10■3-0DB2■-■■■■**	11	0.0021	16
0.75	**0.86**	**80 M**	1450	4.9	IE3	IE3	82.5	82.3	79.9	0.75	1.75	2.7	7.1	3.9	53	64	**1MB10■3-0DB3■-■■■■**	14	0.0029	16
1.1	**1.27**	**90 S**	1440	7.3	IE3	IE3	84.1	84.7	83.4	0.78	2.4	2.9	6.9	3.6	56	68	**1MB10■3-0EB0■-■■■■**	16	0.0036	16
1.5	**1.75**	**90 L**	1445	10	IE3	IE3	85.3	85.9	84.9	0.8	3.15	2.7	7.2	3.6	56	68	**1MB10■3-0EB4■-■■■■**	19	0.0049	16
2.2	**2.55**	**100 L**	1465	14.3	IE3	IE3	86.7	87	85.9	0.83	4.4	3.2	8.4	4.4	60	72	**1MB10■3-1AB4■-■■■■**	30	0.014	16
3	**3.45**	**100 L**	1460	19.6	IE3	IE3	87.7	88.5	87.9	0.83	5.9	2.5	8.3	3.9	60	72	**1MB10■3-1AB5■-■■■■**	30	0.014	16
4	**4.55**	**112 M**	1460	26	IE3	IE3	88.6	89.2	88.6	0.82	7.9	2.4	7.1	3.7	58	70	**1MB10■3-1BB2■-■■■■**	34	0.017	16
5.5	**6.3**	**132 S**	1470	36	IE3	IE3	89.6	90	89.4	0.82	10.8	2.9	8.6	3.7	64	76	**1MB10■3-1CB0■-■■■■**	64	0.046	16
7.5	**8.6**	**132 M**	1465	49	IE3	IE3	90.4	91.1	90.8	0.84	14.3	2.6	8.2	3.7	64	76	**1MB10■3-1CB2■-■■■■**	64	0.046	16
11	**12.6**	**160 M**	1475	71	IE3	IE3	91.4	91.8	91.2	0.84	20.5	2.6	7.6	3.4	65	77	**1MB10■3-1DB2■-■■■■**	83	0.083	16
15	**17.3**	**160 L**	1475	97	IE3	IE3	92.1	92.3	91.5	0.82	28.5	2.5	8.5	3.8	65	77	**1MB10■3-1DB4■-■■■■**	100	0.099	16
6-pole: 1000 rpm at 50 Hz, 1200 rpm at 60 Hz [1]																				
0.37	**0.43**	**80 M**	940	3.8	IE3	IE3	73.5	73.1	69.4	0.66	1.1	2.3	4.2	2.7	42	53	**1MB10■3-0DC2■-■■■■**	12	0.0025	16
0.55	**0.63**	**80 M**	935	5.6	IE3	IE3	77.2	77	73.9	0.67	1.53	2.5	4.5	2.8	42	53	**1MB10■3-0DC3■-■■■■**	14	0.0031	16
0.75	**0.86**	**90 S**	945	7.6	IE3	IE3	78.9	80	78.8	0.7	1.96	2.2	4.6	2.6	43	55	**1MB10■3-0EC0■-■■■■**	16	0.004	16
1.1	**1.27**	**90 L**	940	11	IE3	IE1	81	82	80.5	0.69	2.85	2.3	4.6	2.7	43	55	**1MB10■3-0EC4■-■■■■**	19	0.0048	16
1.5	**1.75**	**100 L**	970	14.8	IE3	IE2	82.5	83.1	81.5	0.73	3.6	1.9	5.2	2.8	59	71	**1MB10■3-1AC4■-■■■■**	30	0.014	16
2.2	**2.55**	**112 M**	970	22	IE3	IE2	84.3	85	83.9	0.75	5	2.2	5.6	2.8	65	74	**1MB10■3-1BC2■-■■■■**	39	0.014	16
3	**3.45**	**132 S**	980	29	IE3	IE3	85.6	86.3	85.7	0.76	6.7	2	6.3	3	63	75	**1MB10■3-1CC0■-■■■■**	43	0.029	16
4	**4.55**	**132 M**	975	39	IE3	IE3	86.8	87.7	87.4	0.76	8.8	2	6.1	2.8	63	75	**1MB10■3-1CC2■-■■■■**	52	0.037	16
5.5	**6.3**	**132 M**	975	54	IE3	IE3	88	88.9	88.5	0.76	11.9	2	6.3	2.9	63	75	**1MB10■3-1CC3■-■■■■**	52	0.037	16
7.5	**8.6**	**160 M**	980	73	IE3	IE3	89.1	89.8	89.2	0.76	16	2	5.1	2.3	67	79	**1MB10■3-1DC2■-■■■■**	93	0.098	16
11	**12.6**	**160 L**	975	108	IE3	IE3	90.3	91.1	90.7	0.77	23	2	5.1	2.4	67	79	**1MB10■3-1DC4■-■■■■**	115	0.12	16

Zones													Order code(s)
Zone 21 (occasionally conductive and non-conductive dust) Ex tb IIIC											**1**		
Zone 22 (rarely conductive or temporarily non-conductive dust) Ex tc IIIB											**2**		
Zone 2 (rarely explosive or temporarily explosive gases) Ex nA IIC											**3**		
Voltages				No. of poles	Frame size	Motor type	Version						Order code(s)
50 Hz	230 VΔ/400 VY	60 Hz [1]	460 VY	2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	**Standard**				**2**	**2**	–
50 Hz	400 VΔ/690 VY	60 Hz [1]	460 VΔ	2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	**Standard**				**3**	**4**	–
50 Hz	500 VY			2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	W/o add. charge				**2**	**7**	–
50 Hz	500 VΔ			2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	W/o add. charge				**4**	**0**	–
Further voltages [1]				For price information, code numbers, order codes and descriptions, see from page 4/28							**9**	**0**	. . .
Types of construction				No. of poles	Frame size	Motor type	Version						Order code(s)
Without flange		IM B3 [2]		2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	**Standard**					**A**	–
With flange		IM B5 [2]		2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	With add. charge					**F**	–
With standard flange		IM B14 [2]		2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	With add. charge					**K**	–
Further types of construction				For price information, code letters and descriptions, see from page 4/30								■	. . .
Motor protection				No. of poles	Frame size	Motor type	Version						Order code(s)
Without				2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	**Standard**						**A** –
PTC thermistor with 3 temperature sensors				2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	With add. charge						**B** –
Further motor protection				For price information, code letters and descriptions, see from page 4/34									■ . . .
Terminal box position				No. of poles	Frame size	Motor type	Version						Order code(s)
Terminal box at top				2, 4, 6	80 M ... 160 L	1MB10■3-0D ... -1D	**Standard**						**4** –
Further terminal box positions				For price information, code numbers and descriptions, see from page 4/36									
Special versions													Order code(s)
Options				For price information, order codes and descriptions, see from page 4/38			**1MB10■3- . . . . ■-■■■■-Z**						. . .+. . .+. . .+. . .

For footnotes, see page 4/27

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Selection and ordering data

P_{rated}, 50 Hz	P_{rated}, 60 Hz	Frame size	Operating values at rated power: n_{rated}, 50 Hz	T_{rated}, 50 Hz	IE class 50 Hz	IE class 60 Hz	η_{rated}, 50 Hz, 4/4	η_{rated}, 50 Hz, 3/4	η_{rated}, 50 Hz, 2/4	$\cos\varphi$ rated, 50 Hz, 4/4	I_{rated}, 50 Hz, 400 V	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	L_{pfA}, 50 Hz	L_{WA}, 50 Hz	**Cast-iron series** 1MB15.3 – *Basic Line* 1MB16.3 – *Performance Line* *IE3 version in accordance with IEC 60034-30* Article No.	$m_{IM\ B3}$	J	Torque class
kW	kW	FS	rpm	Nm			%	%	%		A				dB(A)	dB(A)		kg	kgm^2	CL
• Cooling: self-ventilated (IC 411) • Efficiency: IE3 Premium Efficiency • Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)																				
2-pole: 3000 rpm at 50 Hz, 3600 rpm at 60 Hz [1]																				
0.37	**0.43**	**71 M**	2850	1.2	IE3	IE3	73.8	73.3	69.7	0.76	0.95	3.5	5.8	3.5	52	63	**1MB1 5■3-0CA2■-■■■■**	13	0.00045	16
0.55	**0.63**	**71 M**	2860	1.8	IE3	IE3	77.8	77.5	74.5	0.76	1.34	3.7	6.1	3.7	57	68	**1MB1 5■3-0CA3■-■■■■**	14.5	0.00056	16
0.75	**0.88**	**80 M**	2850	2.5	IE3	IE3	80.7	82.2	81.9	0.86	1.56	2.6	6.2	3	60	71	**1MB1 5■3-0DA2■-■■■■**	18	0.0011	16
1.1	**1.27**	**80 M**	2885	3.6	IE3	IE3	82.7	83.9	83.1	0.85	2.25	3	7.1	3.3	60	71	**1MB1 5■3-0DA3■-■■■■**	21	0.0013	16
1.5	**1.75**	**90 S**	2910	4.9	IE3	IE3	84.2	84.6	83.2	0.86	3	2.7	8.1	4.2	65	77	**1MB1 5■3-0EA0■-■■■■**	25.5	0.0021	16
2.2	**2.55**	**90 L**	2910	7.2	IE3	IE3	85.9	86.8	86.1	0.88	4.2	2.6	8.3	4	65	77	**1MB1 5■3-0EA4■-■■■■**	32	0.0031	16
3	**3.45**	**100 L**	2920	9.8	IE3	IE3	87.1	87.9	87.5	0.88	5.6	3.2	8.1	4.6	67	79	**1MB1■■3-1AA4■-■■■■**	36	0.0054	16
4	**4.55**	**112 M**	2950	13	IE3	IE3	88.1	88.7	88.2	0.89	7.4	2.5	8.7	4	69	81	**1MB1■■3-1BA2■-■■■■**	45	0.012	16
5.5	**6.3**	**132 S**	2950	18	IE3	IE3	89.2	90.1	89.7	0.9	9.9	1.9	7.3	3.7	68	80	**1MB1■■3-1CA0■-■■■■**	58	0.024	16
7.5	**8.6**	**132 S**	2950	24	IE3	IE3	90.1	90.9	90.7	0.92	13.1	2.1	8.3	4	68	80	**1MB1■■3-1CA1■-■■■■**	73	0.031	16
11	**12.6**	**160 M**	2955	36	IE3	IE3	91.2	91.3	90.2	0.87	20	2.5	7.6	3.8	70	82	**1MB1■■3-1DA2■-■■■■**	100	0.053	16
15	**17.3**	**160 M**	2960	48	IE3	IE3	91.9	91.9	91	0.87	27	2.8	8.8	4.3	70	82	**1MB1■■3-1DA3■-■■■■**	110	0.061	16
18.5	**21.3**	**160 L**	2955	60	IE3	IE3	92.4	92.8	92.3	0.9	32	2.8	8.3	3.9	70	82	**1MB1■■3-1DA4■-■■■■**	127	0.068	16
22	**24.5**	**180 M**	2950	71	IE3	IE3	92.7	93	92.4	0.89	38.5	2.3	7.5	3.5	67	80	**1MB1■■3-1EA2■-■■■■**	160	0.08	16
30	**33.5**	**200 L**	2955	97	IE3	IE3	93.3	93.6	93.3	0.87	53	2.5	7	3.3	67	80	**1MB1■■3-2AA4■-■■■■**	225	0.134	16
37	**41.5**	**200 L**	2955	120	IE3	IE3	93.7	93.9	93.5	0.88	65	2.5	7.1	3.2	67	80	**1MB1■■3-2AA5■-■■■■**	250	0.158	16
45	**51**	**225 M**	2960	145	IE3	IE3	94	94.5	94.4	0.89	78	2.4	6.9	3.3	73	87	**1MB1■■3-2BA2■-■■■■**	315	0.26	16
55	**62**	**250 M**	2975	177	IE3	IE3	94.3	94.5	93.9	0.89	95	2.3	6.7	3.1	73	87	**1MB1■■3-2CA2■-■■■■**	385	0.46	13
75	**84**	**280 S**	2975	241	IE3	IE2	94.7	94.8	94.1	0.89	128	2.4	6.8	3	74	88	**1MB1■■3-2DA0■-■■■■**	510	0.77	13
90	**101**	**280 M**	2975	289	IE3	IE2	95	95.1	94.6	0.9	152	2.4	7.2	3.1	74	88	**1MB1■■3-2DA2■-■■■■**	590	0.94	13
110	**123**	**315 S**	2982	352	IE3	IE3	95.2	95.4	94.9	0.91	183	2.4	7.1	3.1	75	89	**1MB1■■3-3AA0■-■■■■**	750	1.4	13
132	**148**	**315 M**	2982	423	IE3	IE3	95.4	95.5	95.2	0.91	220	2.5	7.2	3.1	75	89	**1MB1■■3-3AA2■-■■■■**	880	1.6	13
160	**180**	**315 L**	2982	512	IE3	IE2	95.6	95.7	95.2	0.92	265	2.8	7.8	3.3	77	91	**1MB1■■3-3AA4■-■■■■**	980	1.9	13
200	**224**	**315 L**	2982	640	IE3	IE3	95.8	95.9	95.5	0.92	330	2.5	7.2	3	77	91	**1MB1■■3-3AA5■-■■■■**	1150	2.3	13

	Relubrication	Motor protection	Fan cover	Bearing size	Warranty	
Basic Line	Optional (Standard from FS 280 upwards)	Optional	Steel	62 (63 from FS 280 upwards)	12 months	5
Performance Line	Standard from FS 160 (Optional for FS 100 to 132)	Standard PTC	Steel	63	36 months	6

Zones	
Zone 21 (occasionally conductive and non-conductive dust) Ex tb IIIC	1
Zone 22 (rarely conductive or temporarily non-conductive dust) Ex tc IIIB	2
Zone 2 (rarely explosive or temporarily explosive gases) Ex nA IIC	3

Voltages [3]				No. poles	Frame size	Motor type	Version			Order code(s)
50 Hz	230 VΔ/400 VY	60 Hz [1]	460 VY	2	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	2	2	–
50 Hz	400 VΔ/690 VY	60 Hz [1]	460 VΔ	2	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	3	4	–
50 Hz	500 VY			2	71 M ... 315 L	1MB1■■3-1A ... -3A	W/o add. charge	2	7	–
50 Hz	500 VΔ			2	71 M ... 315 L	1MB1■■3-1A ... -3A	W/o add. charge	4	0	–
Further voltages [1]		For price information, code numbers, order codes and descriptions, see from page 4/29						9	0	. . .

Types of construction		No. poles	Frame size	Motor type	Version		Order code(s)
Without flange	IM B3 [2]	2	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	A	–
With flange	IM B5 [2]	2	71 M ... 315 M	1MB1■■3-1A ... -3A	With add. charge	F	–
With standard flange	IM B14 [2]	2	71 M ... 160 L	1MB1■■3-1A ... -1D	With add. charge	K	–
Further types of construction	For price information, code letters and descriptions, see from page 4/32					■	. . .

Motor protection	Line	No. poles	Frame size	Motor type	Version		Order code(s)
Without	Only possible for **Basic Line**	2	71 M ... 315 L	1MB15■3-1A ... -3A	**Standard**	A	–
PTC thermistor with 3 temperature sensors	**Basic Line**	2	71 M ... 315 L	1MB15■3-1A ... -3A	With add. charge	B	–
	Performance Line	2	71 M ... 315 L	1MB16■3-1A ... -3A	**Standard**	B	–
Further motor protection	For price information, code letters and descriptions, see from page 4/35					■	. . .

Terminal box position	No. poles	Frame size	Motor type	Version		Order code(s)
Terminal box at top	2	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	4	–
Further terminal box positions	For price information, code numbers and descriptions, see from page 4/37					

Special versions			Order code(s)
Options	For price information, order codes and descriptions, see from page 4/42	**1MB1■■3- . . . . ■-■■■■-Z**	. . .+. . .+. . .+. . .

For footnotes, see page 4/27

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Selection and ordering data (continued)

P_{rated}, 50 Hz	P_{rated}, 60 Hz	Frame size	Operating values at rated power: n_{rated}, 50 Hz	T_{rated}, 50 Hz	IE class 50 Hz	IE class 60 Hz	η_{rated}, 50 Hz, 4/4	η_{rated}, 50 Hz, 3/4	η_{rated}, 50 Hz, 2/4	$\cos\varphi$ rated, 50 Hz, 4/4	I_{rated}, 50 Hz, 400 V	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	L_{pfA}, 50 Hz	L_{WA}, 50 Hz	Cast-iron series: 1MB15.3 – *Basic Line*; 1MB16.3 – *Performance Line*; *IE3 version in accordance with IEC 60034-30*; Article No.	$m_{IM\ B3}$	J	Torque class
kW	kW	FS	rpm	Nm			%	%	%		A				dB(A)	dB(A)		kg	kgm^2	CL
• Cooling: self-ventilated (IC 411) • Efficiency: IE3 Premium Efficiency • Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)																				
4-pole: 1500 rpm at 50 Hz, 1800 rpm at 60 Hz [1]																				
0.25	**0.29**	**71 M**	1395	1.7	IE3	IE3	73.5	73.6	70.4	0.72	0.68	2.5	4.2	2.6	44	55	**1MB1 5■3-0CB2■-■■■■**	13	0.00095	16
0.37	**0.43**	**71 M**	1410	2.6	IE3	IE3	77.3	76.8	73.2	0.7	0.99	3.1	4.8	3.1	56	67	**1MB1 5■3-0CB3■-■■■■**	16	0.0014	16
0.55	**0.63**	**80 M**	1440	3.6	IE3	IE3	80.8	81.1	79.3	0.78	1.26	2.1	5.9	3.1	53	64	**1MB1 5■3-0DB2■-■■■■**	18.5	0.0021	16
0.75	**0.88**	**80 M**	1450	4.9	IE3	IE3	82.5	82.3	79.9	0.75	1.75	2.7	7.1	3.9	53	64	**1MB1 5■3-0DB3■-■■■■**	22.5	0.0029	16
1.1	**1.27**	**90 S**	1440	7.3	IE3	IE3	84.1	84.7	83.4	0.78	2.4	2.9	6.9	3.6	56	68	**1MB1 5■3-0EB0■-■■■■**	25	0.0036	16
1.5	**1.75**	**90 L**	1445	10	IE3	IE3	85.3	85.9	84.9	0.8	3.15	2.7	7.2	3.6	56	68	**1MB1 5■3-0EB4■-■■■■**	31	0.0049	16
2.2	**2.55**	**100 L**	1465	14.3	IE3	IE3	86.7	87	85.9	0.83	4.4	3.2	8.4	4.4	60	72	**1MB1■■3-1AB4■-■■■■**	40	0.014	16
3	**3.45**	**100 L**	1460	19.6	IE3	IE3	87.7	88.5	87.9	0.83	5.9	2.5	8.3	3.9	60	72	**1MB1■■3-1AB5■-■■■■**	40	0.014	16
4	**4.55**	**112 M**	1460	26	IE3	IE3	88.6	89.2	88.6	0.82	7.9	2.4	7.1	3.7	58	70	**1MB1■■3-1BB2■-■■■■**	46	0.017	16
5.5	**6.3**	**132 S**	1470	36	IE3	IE3	89.6	90	89.4	0.82	10.8	2.9	8.6	3.7	64	76	**1MB1■■3-1CB0■-■■■■**	74	0.046	16
7.5	**8.6**	**132 M**	1465	49	IE3	IE3	90.4	91.1	90.8	0.84	14.3	2.6	8.2	3.7	64	76	**1MB1■■3-1CB2■-■■■■**	80	0.046	16
11	**12.6**	**160 M**	1475	71	IE3	IE3	91.4	91.8	91.2	0.84	20.5	2.6	7.6	3.4	65	77	**1MB1■■3-1DB2■-■■■■**	109	0.083	16
15	**17.3**	**160 L**	1475	97	IE3	IE3	92.1	92.3	91.5	0.82	28.5	2.5	8.5	3.8	65	77	**1MB1■■3-1DB4■-■■■■**	127	0.099	16
18.5	**21.3**	**180 M**	1470	120	IE3	IE3	92.6	93.1	93	0.82	35	2.5	7.2	3.3	66	73	**1MB1■■3-1EB2■-■■■■**	165	0.13	16
22	**25.3**	**180 L**	1470	143	IE3	IE3	93	93.6	93.6	0.83	41	2.3	6.8	3.3	68	75	**1MB1■■3-1EB4■-■■■■**	170	0.14	16
30	**34.5**	**200 L**	1470	195	IE3	IE2	93.6	94.2	94.2	0.84	55	2.6	7.3	3.1	65	72	**1MB1■■3-2AB5■-■■■■**	240	0.22	16
37	**42.5**	**225 S**	1478	239	IE3	IE2	93.9	94.5	94.4	0.86	66	2.5	6.4	2.7	65	78	**1MB1■■3-2BB0■-■■■■**	285	0.42	16
45	**52**	**225 M**	1478	291	IE3	IE2	94.2	94.9	95.1	0.86	80	2.6	6.4	2.7	65	78	**1MB1■■3-2BB2■-■■■■**	320	0.47	16
55	**63**	**250 M**	1482	354	IE3	IE2	94.6	95.1	95	0.87	96	2.5	6.8	2.9	66	79	**1MB1■■3-2CB2■-■■■■**	420	0.85	16
75	**86**	**280 S**	1485	482	IE3	IE2	95	95.3	95	0.86	133	2.5	6.9	3	69	83	**1MB1■■3-2DB0■-■■■■**	570	1.4	16
90	**104**	**280 M**	1485	579	IE3	IE2	95.2	95.5	95.3	0.87	157	2.6	7.2	3	70	84	**1MB1■■3-2DB2■-■■■■**	670	1.7	16
110	**127**	**315 S**	1488	706	IE3	IE3	95.4	95.8	95.5	0.87	191	2.6	6.8	2.9	70	84	**1MB1■■3-3AB0■-■■■■**	760	2.2	16
132	**152**	**315 M**	1490	846	IE3	IE3	95.6	95.9	95.9	0.87	230	2.8	7.3	3	73	87	**1MB1■■3-3AB2■-■■■■**	960	2.9	16
160	**184**	**315 L**	1490	1025	IE3	IE3	95.8	96.1	96.1	0.87	275	2.9	7.3	3.1	73	87	**1MB1■■3-3AB4■-■■■■**	990	3.1	16
200	**230**	**315 L**	1488	1284	IE3	IE2	96	96.3	96.1	0.88	340	3.2	7.4	3	73	87	**1MB1■■3-3AB5■-■■■■**	1190	3.7	16

	Relubrication	Motor protection	Fan cover	Bearing size	Warranty						
Basic Line	Optional (Standard from FS 280 upwards)	Optional	Steel	62 (63 from FS 280 upwards)	12 months	5					
Performance Line	Standard from FS 160 (Optional for FS 100 to 132)	Standard PTC	Steel	63	36 months	6					

Zones											
Zone 21 (occasionally conductive and non-conductive dust) Ex tb IIIC						1					
Zone 22 (rarely conductive or temporarily non-conductive dust) Ex tc IIIB						2					
Zone 2 (rarely explosive or temporarily explosive gases) Ex nA IIC						3					

Voltages [3]				No. poles	Frame size	Motor type	Version				Order code(s)
50 Hz	230 VΔ/400 VY	60 Hz [1]	460 VY	4	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	2	2		–
50 Hz	400 VΔ/690 VY	60 Hz [1]	460 VΔ	4	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	3	4		–
50 Hz	500 VY			4	71 M ... 315 L	1MB1■■3-1A ... -3A	W/o add. charge	2	7		–
50 Hz	500 VΔ			4	71 M ... 315 L	1MB1■■3-1A ... -3A	W/o add. charge	4	0		–
Further voltages [1]		For price information, code numbers, order codes and descriptions, see from page 4/29						9	0		. . .

Types of construction		No. poles	Frame size	Motor type	Version		Order code(s)
Without flange	IM B3 [2]	4	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	A	–
With flange	IM B5 [2]	4	71 M ... 315 M	1MB1■■3-1A ... -3A	With add. charge	F	–
With standard flange	IM B14 [2]	4	71 M ... 160 L	1MB1■■3-1A ... -1D	With add. charge	K	–
Further types of construction	For price information, code letters and descriptions, see from page 4/32					■	. . .

Motor protection	Line	No. poles	Frame size	Motor type	Version		Order code(s)
Without	Only possible for **Basic Line**	4	71 M ... 315 L	1MB15■3-1A ... -3A	**Standard**	A	–
PTC thermistor with 3 temperature sensors	**Basic Line**	4	71 M ... 315 L	1MB15■3-1A ... -3A	With add. charge	B	–
	Performance Line	4	71 M ... 315 L	1MB16■3-1A ... -3A	**Standard**	B	–
Further motor protection	For price information, code letters and descriptions, see from page 4/35					■	. . .

Terminal box position	No. poles	Frame size	Motor type	Version		Order code(s)
Terminal box at top	4	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	4	–
Further terminal box positions	For price information, code numbers and descriptions, see from page 4/37					

Special versions			Order code(s)
Options	For price information, order codes and descriptions, see from page 4/42	**1MB1■■3- . . . . ■-■■■■**	**-Z** . . .+. . .+. . .+. . .

For footnotes, see page 4/27

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Selection and ordering data (continued)

P_{rated}, 50 Hz	P_{rated}, 60 Hz	Frame size	Operating values at rated power: n_{rated}, 50 Hz	T_{rated}, 50 Hz	IE class 50 Hz	IE class 60 Hz	η_{rated}, 50 Hz, 4/4	η_{rated}, 50 Hz, 3/4	η_{rated}, 50 Hz, 2/4	$\cos\varphi$ rated, 50 Hz, 4/4	I_{rated}, 50 Hz, 400 V	T_{LR}/T_{rated}	I_{LR}/I_{rated}	T_B/T_{rated}	L_{pfA}, 50 Hz	L_{WA}, 50 Hz	Cast-iron series: 1MB15.3 – Basic Line; 1MB16.3 – Performance Line; IE3 version in accordance with IEC 60034-30; Article No.	$m_{IM\ B3}$	J	Torque class
kW	kW	FS	rpm	Nm			%	%	%		A				dB(A)	dB(A)		kg	kgm^2	CL
• Cooling: self-ventilated (IC 411) • Efficiency: IE3 Premium Efficiency • Insulation: Thermal class 155 (temperature class F), IP55 degree of protection, utilization in accordance with thermal class 130 (temperature class B)																				
6-pole: 1000 rpm at 50 Hz, 1200 rpm at 60 Hz [1]																				
0.18	0.21	71 M	885	1.9	IE3	IE3	63.9	64.6	60.8	0.69	0.59	2.3	2.8	2.3	39	50	1MB1 5■3-0CC2■-■■■■	12.5	0.001	16
0.25	0.29	71 M	900	2.7	IE3	IE3	68.6	69.5	66.2	0.69	0.76	2.6	3.2	2.6	46	57	1MB1 5■3-0CC3■-■■■■	15.5	0.0015	16
0.37	0.43	80 M	940	3.8	IE3	IE3	73.5	73.1	69.4	0.66	1.1	2.3	4.2	2.7	42	53	1MB1 5■3-0DC2■-■■■■	18.5	0.0025	16
0.55	0.63	80 M	935	5.6	IE3	IE3	77.2	77	73.9	0.67	1.53	2.5	4.5	2.8	42	53	1MB1 5■3-0DC3■-■■■■	22.5	0.0031	16
0.75	0.88	90 S	945	7.6	IE3	IE3	78.9	80	78.8	0.7	1.96	2.2	4.6	2.6	43	55	1MB1 5■3-0EC0■-■■■■	26.5	0.004	16
1.1	1.27	90 L	940	11	IE3	IE1	81	82	80.5	0.69	2.85	2.3	4.6	2.7	43	55	1MB1 5■3-0EC4■-■■■■	32	0.0048	16
1.5	1.75	100 L	970	14.8	IE3	IE2	82.5	83.1	81.5	0.73	3.6	1.9	5.2	2.8	59	71	1MB1■■3-1AC4■-■■■■	36	0.011	16
2.2	2.55	112 M	970	22	IE3	IE2	84.3	85	83.9	0.75	5	2.2	5.6	2.8	65	74	1MB1■■3-1BC2■-■■■■	53	0.017	16
3	3.45	132 S	980	29	IE3	IE3	85.6	86.3	85.7	0.76	6.7	2	6.3	3	63	75	1MB1■■3-1CC0■-■■■■	70	0.037	16
4	4.55	132 M	975	39	IE3	IE3	86.8	87.7	87.4	0.76	8.8	2	6.1	2.8	63	75	1MB1■■3-1CC2■-■■■■	70	0.037	16
5.5	6.3	132 M	975	54	IE3	IE3	88	88.9	88.5	0.76	11.9	2	6.3	2.9	63	75	1MB1■■3-1CC3■-■■■■	83	0.037	16
7.5	8.6	160 M	980	73	IE3	IE3	89.1	89.8	89.2	0.76	16	2	5.1	2.3	67	79	1MB1■■3-1DC2■-■■■■	122	0.098	16
11	12.6	160 L	975	108	IE3	IE3	90.3	91.1	90.7	0.77	23	2	5.1	2.4	67	79	1MB1■■3-1DC4■-■■■■	147	0.12	16
15	18	180 L	975	147	IE3	IE2	91.2	91.9	91.9	0.8	29.5	2.3	5.9	2.8	61	68	1MB1■■3-1EC4■-■■■■	180	0.19	16
18.5	22	200 L	978	181	IE3	IE2	91.7	92.5	92.5	0.79	37	2.5	5.6	2.6	64	71	1MB1■■3-2AC4■-■■■■	215	0.28	16
22	26.5	200 L	978	215	IE3	IE2	92.2	93.1	93.2	0.79	43.5	2.5	5.6	2.6	61	68	1MB1■■3-2AC5■-■■■■	230	0.32	16
30	36	225 M	982	292	IE3	IE2	92.9	93.6	93.5	0.83	56	2.6	6.6	3	64	77	1MB1■■3-2BC2■-■■■■	325	0.67	16
37	44.5	250 M	985	359	IE3	IE2	93.3	94	94	0.85	67	2.7	7	2.9	62	75	1MB1■■3-2CC2■-■■■■	405	1	16
45	54	280 S	988	435	IE3	IE2	93.7	94.3	94.2	0.85	82	3	6.8	2.8	60	74	1MB1■■3-2DC0■-■■■■	510	1.4	16
55	66	280 M	988	532	IE3	IE2	94.1	94.6	94.4	0.85	99	3.2	7.2	3	60	74	1MB1■■3-2DC2■-■■■■	560	1.6	16
75	90	315 S	990	723	IE3	IE3	94.6	94.9	94.4	0.84	136	2.6	7.5	3.1	63	78	1MB1■■3-3AC0■-■■■■	750	2.6	16
90	108	315 M	991	867	IE3	IE2	94.9	95.2	94.9	0.85	161	2.5	6.7	2.8	63	78	1MB1■■3-3AC2■-■■■■	890	3.1	16
110	132	315 L	991	1060	IE3	IE2	95.1	95.5	95.3	0.84	199	2.8	7.2	3	63	78	1MB1■■3-3AC4■-■■■■	990	3.9	16
132	158	315 L	991	1272	IE3	IE2	95.4	95.9	95.8	0.84	240	2.7	7.2	3	67	82	1MB1■■3-3AC5■-■■■■	1110	4.4	16
160	192	315 L	991	1542	IE3	IE2	95.6	95.8	95.4	0.83	290	3.3	7.7	3.5	67	82	1MB1■■3-3AC6■-■■■■	1160	4.6	16

	Relubrication	Motor protection	Fan cover	Bearing size	Warranty	
Basic Line	Optional (Standard from FS 280 upwards)	Optional	Steel	62 (63 from FS 280 upwards)	12 months	5
Performance Line	Standard from FS 160 (Optional for FS 100 to 132)	Standard PTC	Steel	63	36 months	6

Zones	
Zone 21 (occasionally conductive and non-conductive dust) Ex tb IIIC	1
Zone 22 (rarely conductive or temporarily non-conductive dust) Ex tc IIIB	2
Zone 2 (rarely explosive or temporarily explosive gases) Ex nA IIC	3

Voltages [3]				No. poles	Frame size	Motor type	Version			Order code(s)
50 Hz	230 VΔ/400 VY	60 Hz [1]	460 VY	6	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	2	2	–
50 Hz	400 VΔ/690 VY	60 Hz [1]	460 VΔ	6	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	3	4	–
50 Hz	500 VY			6	71 M ... 315 L	1MB1■■3-1A ... -3A	W/o add. charge	2	7	–
50 Hz	500 VΔ			6	71 M ... 315 L	1MB1■■3-1A ... -3A	W/o add. charge	4	0	–
Further voltages [1]	For price information, code numbers, order codes and descriptions, see from page 4/29							9	0	. . .

Types of construction		No. poles	Frame size	Motor type	Version		Order code(s)
Without flange	IM B3 [2]	6	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	A	–
With flange	IM B5 [2]	6	71 M ... 315 M	1MB1■■3-1A ... -3A	With add. charge	F	–
With standard flange	IM B14 [2]	6	71 M ... 160 L	1MB1■■3-1A ... -1D	With add. charge	K	–
Further types of construction	For price information, code letters and descriptions, see from page 4/32					■	. . .

Motor protection	Line	No. poles	Frame size	Motor type	Version		Order code(s)
Without	Only possible for **Basic Line**	6	71 M ... 315 L	1MB15■3-1A ... -3A	**Standard**	A	–
PTC thermistor with 3 temperature sensors	**Basic Line**	6	71 M ... 315 L	1MB15■3-1A ... -3A	With add. charge	B	–
	Performance Line	6	71 M ... 315 L	1MB16■3-1A ... -3A	**Standard**	B	–
Further motor protection	For price information, code letters and descriptions, see from page 4/35					■	. . .

Terminal box position	No. poles	Frame size	Motor type	Version		Order code(s)
Terminal box at top	6	71 M ... 315 L	1MB1■■3-1A ... -3A	**Standard**	4	–
Further terminal box positions	For price information, code numbers and descriptions, see from page 4/37					

Special versions			Order code(s)
Options	For price information, order codes and descriptions, see from page 4/42	1MB1■■3- . . . . ■-■■■■	-Z . . .+. . .+. . .+. . .

For footnotes, see page 4/27