

Motors

Explosion-protected motors

**Motors for Zone 2 and Zone 22****Selection and ordering data**

Frame size	Motor	P_N	n_N	T_N	I_N	$\cos \varphi$	η			I_{st}/I_N
		kW	rpm	Nm	50 Hz 400 V A	–	4/4 load %	3/4 load %	2/4 load %	–
50 Hz power										
4-pole, 1500 rpm										
71	MB71MG4E	0.25	1395	1.71	0.76	0.69	68.5	68.4	64.2	3.7
	MB71ZMK4E	0.37	1380	2.55	1.02	0.72	72.7	73.2	69.9	3.8
80	MB80MH4P	0.55	1440	3.6	1.26	0.78	80.8	81.1	79.3	5.9
	MB80ZMQ4P	0.75	1450	4.9	1.75	0.75	82.5	82.3	79.9	7.1
90	MB90SM4P	1.1	1440	7.3	2.40	0.78	84.1	84.7	83.4	6.9
	MB90ZLR4P	1.5	1445	9.9	3.15	0.80	85.3	86.0	85.2	7.3
100	MB100ZLSA4P	2.2	1455	14.4	4.45	0.82	86.7	87.2	86.3	8.3
	MB100ZLSB4P	3	1450	19.8	6.2	0.80	87.7	88.1	87.1	8.0
112	MB112ZMKB4P	4	1460	26	7.90	0.82	88.6	89.2	88.6	7.1
132	MB132ZST4P	5.5	1470	36	10.8	0.82	89.6	90.0	89.4	8.6
	MB132ZMS4P	7.5	1465	49	15.0	0.80	90.4	90.7	90.4	8.5
160	MB160MPB4P	11	1470	71	21.0	0.82	91.4	91.9	91.9	8.0
	MB160ZLL4P	15	1475	97	28.5	0.82	92.1	92.3	91.5	8.5
180	MBS180MQ4P	18.5	1470	120	35.0	0.82	92.6	93.1	93.0	7.2
	MBS180ZLN4P	22	1470	143	41.0	0.83	93.0	93.6	93.6	6.8



Motors

Explosion-protected motors

Motors for Zone 2 and Zone 22

Frame size	Motor	T_{St}/T_N	T_{Bk}/T_N	L_{pA}	L_{WA}	J_{mot}	m_{mot}	9th to 12th position of the Article No.	Additional identification code -Z with order code	
		–	–	dB (A)	dB (A)	10^{-4} kgm^2	kg	2KJ3... - . ■ ■ ■ ■ - -Z	Zone 2 ¹⁾	Zone 22 ¹⁾
50 Hz power										
4-pole, 1500 rpm										
71	MB71MG4E	2.4	2.5	50	61	7.6	6	2KJ3... - . C C 7 2 -	K72	K74
	MB71ZMK4E	2.3	2.4	50	61	9.5	7	2KJ3... - . C E 7 2 -	K72	K74
80	MB80MH4P	2.1	3.1	53	64	21	11	2KJ3... - . D C 7 3 -	K72	K74
	MB80ZMQ4P	2.7	3.9	53	64	29	14	2KJ3... - . D F 7 3 -	K72	K74
90	MB90SM4P	2.9	3.6	56	68	36	16	2KJ3... - . E K 7 3 -	K72	K74
	MB90ZLR4P	2.9	3.5	60	68	49	19	2KJ3... - . E M 7 3 -	K72	K74
100	MB100ZLSA4P	3.0	3.8	67	75	110	25	2KJ3... - . F N 7 3 -	K72	K74
	MB100ZLSB4P	3.1	3.8	67	75	110	25	2KJ3... - . F P 7 3 -	K72	K74
112	MB112ZMKB4P	2.4	3.7	58	70	170	34	2KJ3... - . G J 7 3 -	K72	K74
132	MB132ZST4P	2.9	3.7	64	76	460	64	2KJ3... - . H J 7 3 -	K72	K74
	MB132ZMS4P	3.0	3.8	72	80	360	61	2KJ3... - . H L 7 3 -	K72	K74
160	MB160MPB4P	2.5	3.5	67	75	620	73	2KJ3... - . J R 7 3 -	K72	K74
	MB160ZLL4P	2.5	3.8	65	77	990	100	2KJ3... - . J U 7 3 -	K72	K74
180	MBS180MQ4P	2.5	3.3	66	73	1300	165	2KJ3... - . K L 7 3 -	K72	K74
	MBS180ZLN4P	2.3	3.3	68	75	1400	170	2KJ3... - . K N 7 3 -	K72	K74

¹⁾ Additional ordering data and notes relating to explosion-protected geared motors are listed in table "Designs for SIMOGEAR explosion-protected geared motors in Zone 2 and Zone 22" on [page 2/32](#).