

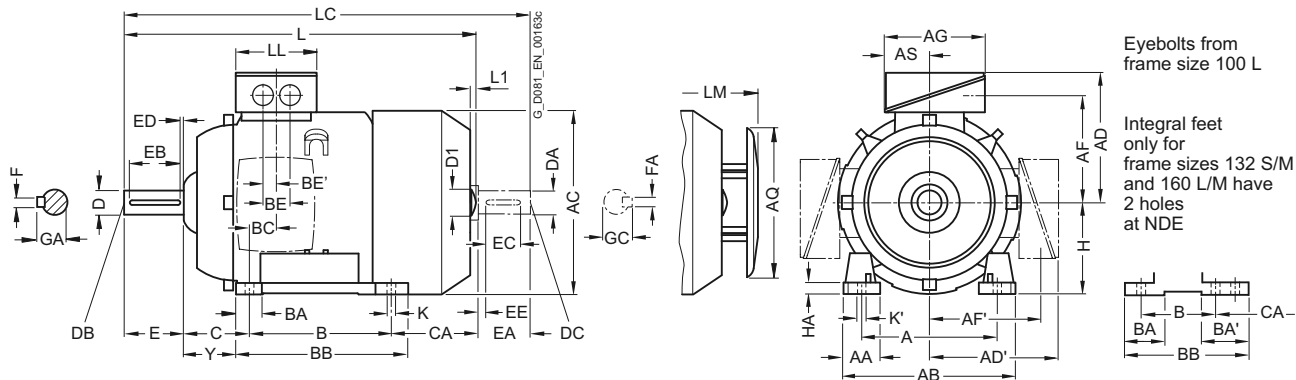
SIMOTICS XP 1MB1 Explosion-Proof Motors

Dimensions

Aluminum series 1MB1011, 1MB1012, 1MB1021, 1MB1022, 1MB1031, 1MB1032 – self-ventilated, frame sizes 100 L to 160 L

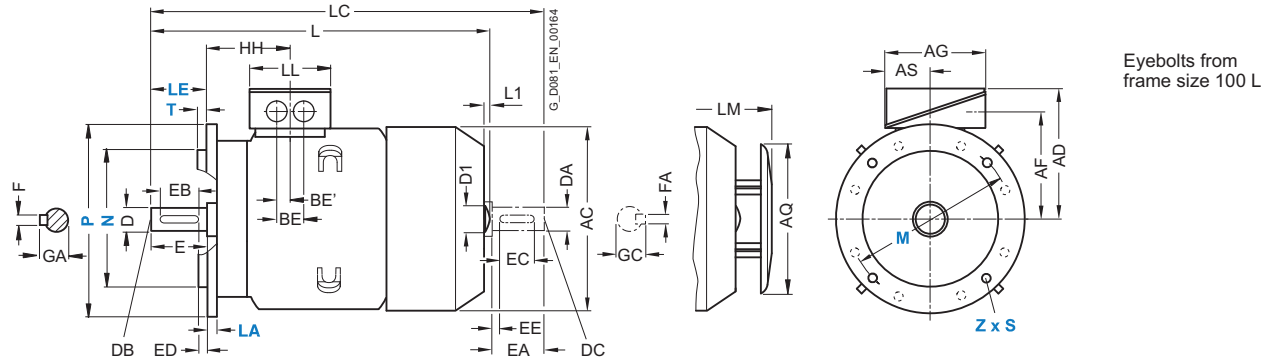
Dimensional drawings

Type of construction IM B3



Types of construction IM B5 and IM V1

For flange dimensions, see section flange dimensions (Z = the number of retaining holes)



For motor			Dimension designation acc. to IEC																							
Frame size	No. of poles	Motor type	A	AA	AB	AC	AD	AD'	AF	AF'	AG	AQ	AS	B*	BA	BA'	BB	BC	BE	BE'	C ¹⁾	CA*	H	HA	Y ¹⁾	
100 L	2, 4, 6, 8	All	160	42	196	198	166	166	125.5	125.5	135	195	63.5	140	37.5	–	176	33.5	50	25	63	141	100	12	45	
112 M	2, 4, 6, 8	All	190	46	226	222	177	177	136.5	136.5	135	195	63.5	140	35.4	–	176	26	50	25	70	129.7	112	12	52	
132 S	2, 4, 6, 8	All	216	53	256	262	202	202	159.5	159.5	155	260	70.5	140	38	76 ²⁾	218 ³⁾	26.5	48	24	89	128.5 ⁴⁾	132	15	69	
132 M	2, 4, 6, 8	All	216	53	256	262	202	202	159.5	159.5	155	260	70.5	178	38	76	218	26.5	48	24	89	128.5 ⁴⁾	132	15	69	
160 M	2, 4, 6, 8	All	254	60	300	314	236.5	236.5	190	190	175	260	77.5	210	44	89 ⁵⁾	300 ⁶⁾	47	57	28.5	108	148 ⁷⁾	160	18	85	
160 L	2, 4, 6, 8	All	254	60	300	314	236.5	236.5	190	190	175	260	77.5	254	44	89	300	47	57	28.5	108	148 ⁸⁾	160	18	85	

* This dimension is assigned in DIN EN 50347 to the frame size listed.

1) Additional information – not a standard dimension according to DIN EN 50347.

2) With screwed-on feet, dimension BA' is 38 mm.

3) With screwed-on feet, dimension BB is 180 mm.

4) With screwed-on feet, dimension CA is 166.5 mm.

5) With screwed-on feet, dimension BA' is 44 mm.

6) With screwed-on feet, dimension BB is 256 mm.

7) With screwed-on feet, dimension CA is 192 mm.

SIMOTICS XP 1MB1 Explosion-Proof Motors

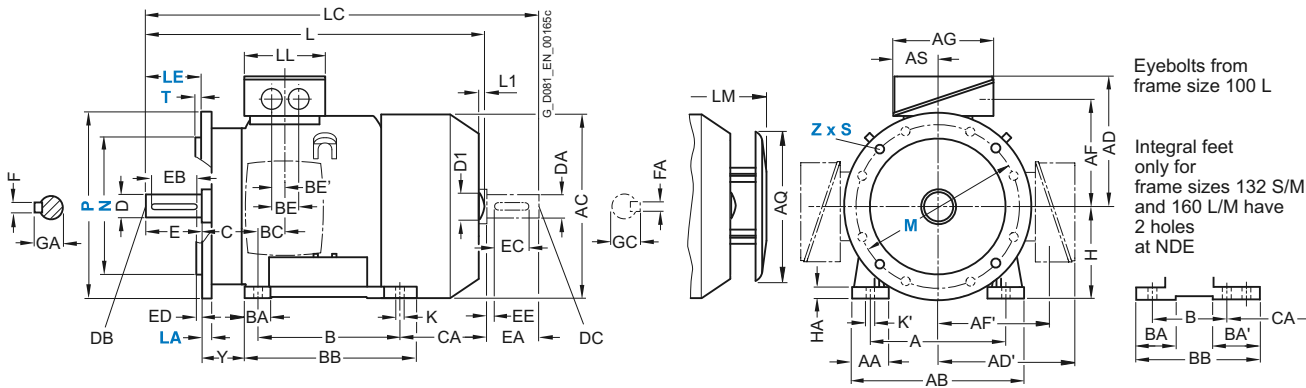
Dimensions

Aluminum series 1MB1011, 1MB1012, 1MB1021, 1MB1022, 1MB1031, 1MB1032 – self-ventilated, frame sizes 100 L to 160 L

Dimensional drawings (continued)

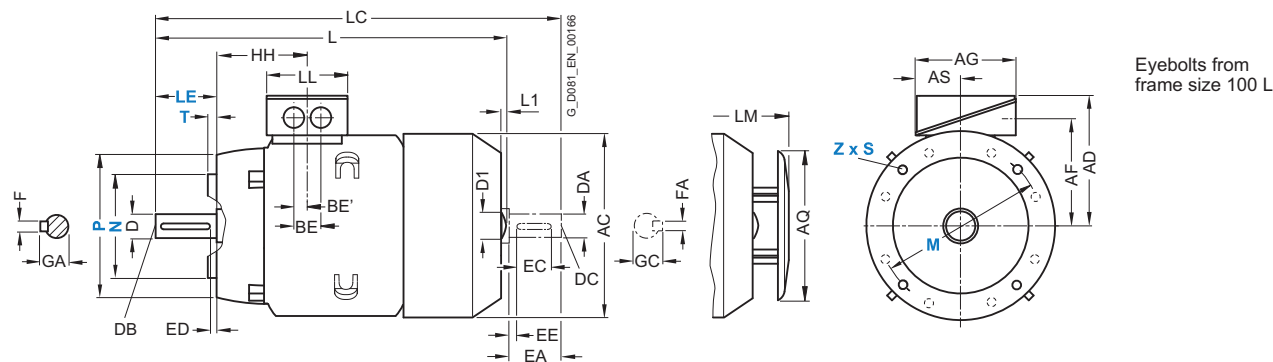
Type of construction IM B35

For flange dimensions, see section flange dimensions (Z = the number of retaining holes)



Type of construction IM B14

For flange dimensions, see section flange dimensions (Z = the number of retaining holes)



For motor		Dimension designation acc. to IEC										DE shaft extension				NDE shaft extension									
Frame size	No. of poles	Motor type	HH	K	K'	L	L1	D1	LC	LL	LM	D	DB	E	EB	ED	F	GA	DA	DC	EA	EC	EE	FA	GC
100 L	2, 4, 6, 8	All	96.5	12	16	395.5 ¹⁾	7	32	454	112	428.5	28	M10	60	50	5	8	31	24	M8	50	40	5	8	27
112 M	2, 4, 6, 8	All	96	12	16	389 ¹⁾	7	32	450	112	422	28	M10	60	50	5	8	31	24	M8	50	40	5	8	27
132 S	2, 4, 6, 8	All	115.5	12	16	465 ¹⁾	8.5	39	535.5	130	516.5	38	M12	80	70	5	10	41	28	M10	60	50	5	8	31
132 M	2, 4, 6, 8	All	115.5	12	16	465	8.5	39	535.5	130	516.5	38	M12	80	70	5	10	41	28	M10	60	50	5	8	31
160 M	2, 4, 6, 8	All	155	15	19	604 ¹⁾	10	45	730	145	654	42	M16	110	90	10	12	45	42	M16	110	90	10	12	45
160 L	2, 4, 6, 8	All	155	15	19	604 ¹⁾	10	45	730	145	654	42	M16	110	90	10	12	45	42	M16	110	90	10	12	45

¹⁾ The length is specified as far as the tip of the fan cover.

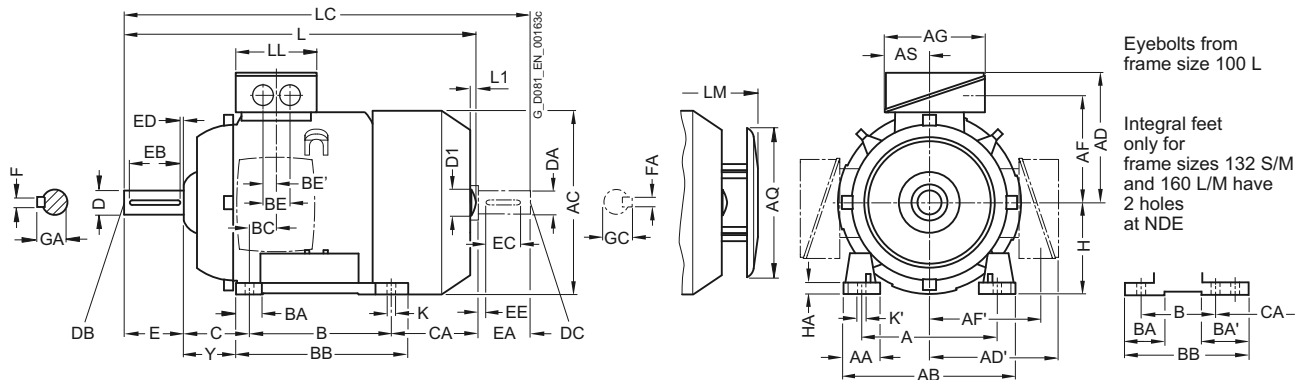
SIMOTICS XP 1MB1 Explosion-Proof Motors

Dimensions

Aluminum series 1MB1013, 1MB1023, 1MB1033
self-ventilated, frame sizes 100 L to 160 L

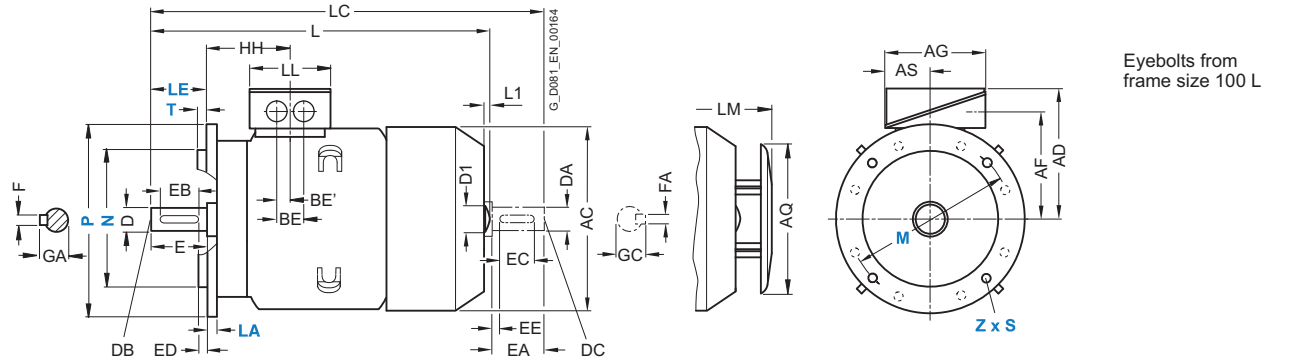
Dimensional drawings

Type of construction IM B3



Types of construction IM B5 and IM V1

For flange dimensions, see section flange dimensions (Z = the number of retaining holes)



For motor		Dimension designation acc. to IEC																			
Frame size	No. of poles	Motor type	A	AA	AB	AC	AD	AD'	AF	AF'	AG	AQ	AS	B*	BA	BA'	BB	BC	BE	BE'	C ¹⁾
100 L	2, 4	1MB1013	160	42	196	198	166	166	125.5	125.5	135	195	63.5	140	37.5	–	176	33.5	50	25	63
		1MB1023	160	42	196	198	166	166	125.5	125.5	135	195	63.5	140	37.5	–	176	33.5	50	25	63
112 M	2, 4	1MB1033	190	46	226	222	177	177	136.5	136.5	135	195	63.5	140	35.4	–	176	26	50	25	70
		1BA2, 1BB2	190	46	226	222	177	177	136.5	136.5	135	195	63.5	140	35.4	–	176	26	50	25	70
132 S	2, 6	1CA0, 1CC0	216	53	256	262	202	202	159.5	159.5	155	260	70.5	140	38	76 ²⁾	218 ³⁾	26.5	48	24	89
		1CA1, 1CB0	216	53	256	262	202	202	159.5	159.5	155	260	70.5	140	38	–	–	26.5	48	24	128.5 ⁴⁾
132 M	6	1CC2	216	53	256	262	202	202	159.5	159.5	155	260	70.5	178	38	76	218	26.5	48	24	132
		1CB2, 1CC3	216	53	256	262	202	202	159.5	159.5	155	260	70.5	178	38	–	–	26.5	48	24	155
160 M	2, 4, 6	1DA2, 1DA3, 1DB2, 1DC2	254	60	300	314	236.5	236.5	190	190	175	260	77.5	210	44	89 ⁵⁾	300 ⁶⁾	47	57	28.5	108
		1DA4, 1DB4, 1DC4	254	60	300	314	236.5	236.5	190	190	175	260	77.5	254	44	–	300	47	57	28.5	148 ⁷⁾
160 L	2, 4, 6	1DA4, 1DB4, 1DC4	254	60	300	314	236.5	236.5	190	190	175	260	77.5	254	44	–	300	47	57	28.5	208

* This dimension is assigned in DIN EN 50347 to the frame size listed.

1) Additional information – not a standard dimension according to DIN EN 50347.

2) With screwed-on feet, dimension BA' is 38 mm.

3) With screwed-on feet, dimension BB is 180 mm.

4) With screwed-on feet, dimension CA is 166.5 mm.

5) With screwed-on feet, dimension BA' is 44 mm.

6) With screwed-on feet, dimension BB is 256 mm.

7) With screwed-on feet, dimension CA is 192 mm.

SIMOTICS XP 1MB1 Explosion-Proof Motors

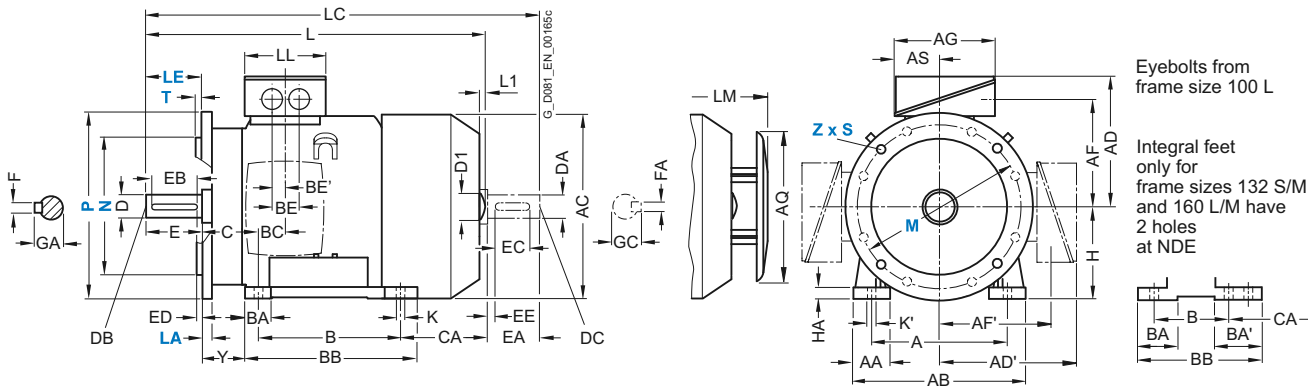
Dimensions

Aluminum series 1MB1013, 1MB1023, 1MB1033
self-ventilated, frame sizes 100 L to 160 L

Dimensional drawings (continued)

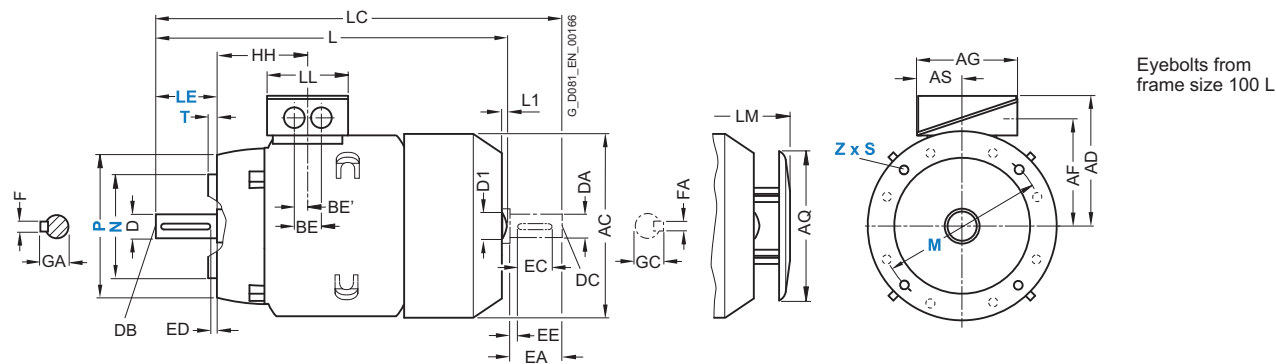
Type of construction IM B35

For flange dimensions, see section flange dimensions (Z = the number of retaining holes)



Type of construction IM B14

For flange dimensions, see section flange dimensions (Z = the number of retaining holes)



For motor			Dimension designation acc. to IEC										DE shaft extension							NDE shaft extension						
Frame size	No. of poles	Motor type	HH	K	K'	L ¹⁾	L1	D1	LC	LL	LM	D	DB	E	EB	ED	F	GA	DA	DC	EA	EC	EE	FA	GC	
100 L	2, 4	1MB1013	96.5	12	16	430.5	7	32	489	112	463.5	28	M10	60	50	5	8	31	24	M8	50	40	5	8	27	
		1MB1023																								
		1MB1033																								
112 M	2, 4	1BA4, 1AB4, 1AB5	96	12	16	414	7	32	475	112	447	28	M10	60	50	5	8	31	24	M8	50	40	5	8	27	
132 S	2, 6	1CA0, 1CC0	115.5	12	16	465	8.5	39	535.5	130	516.5	38	M12	80	70	5	10	41	28	M10	60	50	5	8	31	
	2, 4	1CA1, 1CB0				515			585.5		550.5															
132 M	6	1CC2	115.5	12	16	465	8.5	39	535.5	130	516.5	38	M12	80	70	5	10	41	28	M10	60	50	5	8	31	
	4, 6	1CB2, 1CC3				515			585.5		550.5															
160 M	2, 4, 6	1DA2, 1DA3, 1DB2, 1DC2	155	15	19	604	10	45	730	145	654	42	M16	110	90	10	12	45	42	M16	110	90	10	12	45	
160 L	2, 4, 6	1DA4, 1DB4, 1DC4	155	15	19	664	10	45	790	145	714	42	M16	110	90	10	12	45	42	M16	110	90	10	12	45	

¹⁾ The length is specified as far as the tip of the fan cover.