

Motors with Explosion Protection

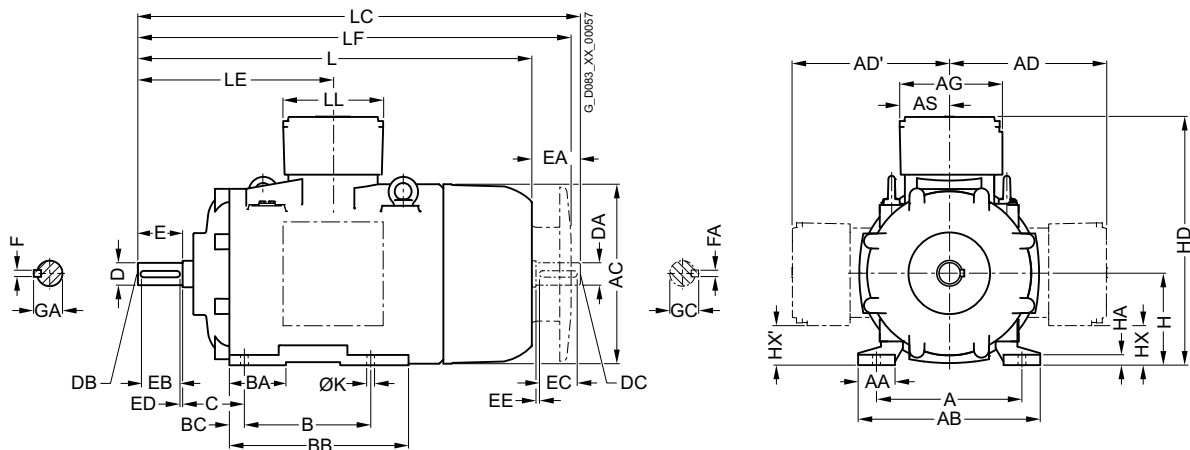
SIMOTICS XP 1MD5 motor series

Dimensions for frame sizes 71 B to 250 M

Dimensional drawings

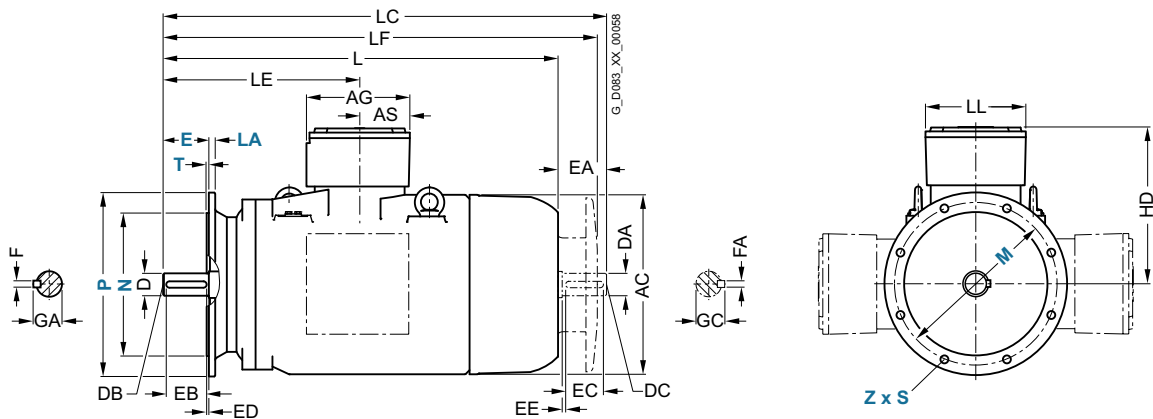
Type of construction IM B3

For flange dimensions, see Page 2/26.



Types of construction IM B5 and IM V1

For flange dimensions, see Page 2/26.



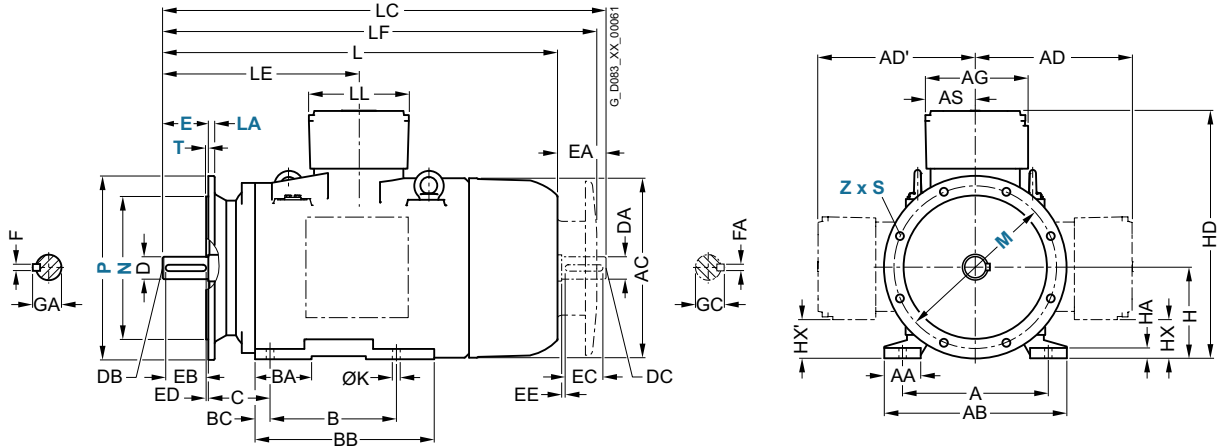
Dimension designation acc. to IEC

Frame size	No. of poles	A	AA	AB	AC	AD	AG	AS	B	BA	BB	BC	C	H	HA	HD	øK	L
SIMOTICS XP																		
71 B	2, 4, 6	112	30	140	148	–	138	69	90	30	125	10	45	71	10	271	7	345
80 B	2, 4, 6	125	35	160	168	–	138	69	100	35	130	13	50	80	10	289	10	358
90 L	2, 4, 6	140	40	180	186	–	138	69	125	40	155	15	56	90	13	303	10	426
100 L	2, 4, 6	160	45	205	213	–	138	69	140	45	170	15	63	100	18	327	12	482
112 M	2, 4, 6	190	50	240	237	–	138	69	140	60	170	15	70	112	18	352	12	465
132 S	2, 4, 6	216	50	260	278	274	186	92	140	88	228	25	89	132	18	406	12	574
132 M	2, 4, 6	216	50	260	278	274	186	92	178	88	228	25	89	132	18	406	12	574
160 M	2, 4, 6	254	60	310	331	304	186	92	210	61	307	21	108	160	27	465	15	786
160 L	2, 4, 6	254	60	310	331	304	186	92	254	61	307	21	108	160	27	465	15	786
180 M	2, 4, 6	279	70	349	363	349	254	123	241	99	359	24	121	180	19	529	15	822
180 L	2, 4, 6	279	70	349	363	349	254	123	279	99	359	24	121	180	19	529	15	822
200 L	2, 4, 6	318	80	400	402	367	254	123	305	120	425	32	133	200	25	569	19	884
225 S	2 4, 6	356	90	446	451	384	254	123	286	136	438	34	149	225	26	609	19	966 996
225 M	2 4, 6	356	90	446	451	384	254	123	311	136	438	34	149	225	26	609	19	966 996
250 M	2 4, 6	406	100	505	490	522	382	176	349	110	420	36	168	250	35	772	25	1028

Dimensional drawings (continued)

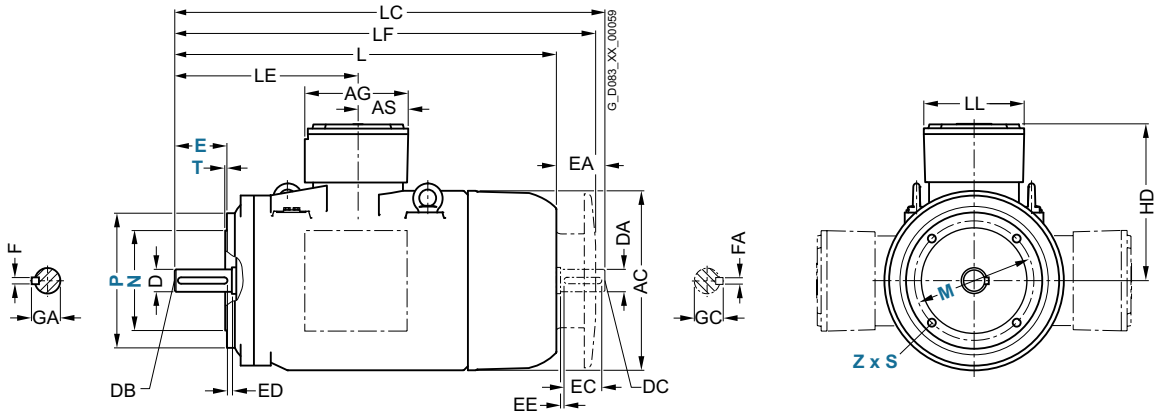
Type of construction IM B35

For flange dimensions, see Page 2/26.



Type of construction IM B14

For flange dimensions, see Page 2/26.



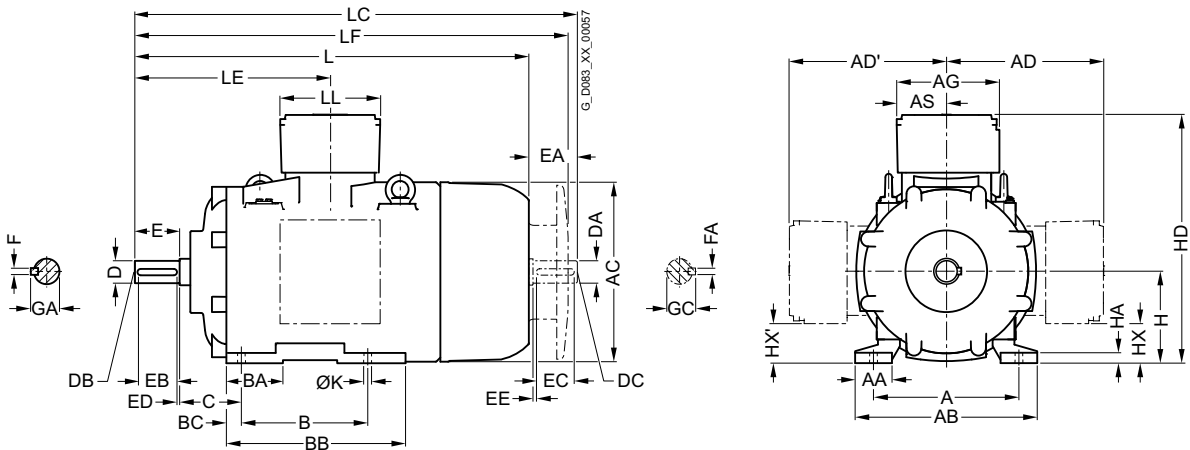
Frame size	No. of poles	Dimension designation acc. to IEC					DE shaft extension					NDE shaft extension							
		LC	LE	LF	LL	D	DB	E	EB	ED	F	GA	DA	DC	EA	EC	EE	FA	GC
SIMOTICS XP																			
71 B	2, 4, 6	385	135	377	138	14	M5	30	22	4	5	16	14	M5	30	22	4	5	16
80 B	2, 4, 6	408	158	391	138	19	M6	40	32	4	6	21.5	19	M6	40	32	4	6	22
90 L	2, 4, 6	486	173	459	138	24	M8	50	40	5	8	27	24	M8	50	40	5	8	27
100 L	2, 4, 6	552	205	520	138	28	M10	60	50	5	8	31	28	M10	60	50	5	8	31
112 M	2, 4, 6	535	210	505	138	28	M10	60	50	5	8	31	28	M10	60	50	5	8	31
132 S	2, 4, 6	664	270	638	184	38	M12	80	70	5	10	41	38	M12	80	70	5	10	41
132 M	2, 4, 6	664	270	638	184	38	M12	80	70	5	10	41	38	M12	80	70	5	10	41
160 M	2, 4, 6	906	381	850	184	42	M16	110	100	5	12	45	42	M16	110	100	5	12	45
160 L	2, 4, 6	906	381	850	184	42	M16	110	100	5	12	45	42	M16	110	100	5	12	45
180 M	2, 4, 6	942	415	912	246	48	M16	110	100	5	14	51.5	48	M16	110	100	5	14	52
180 L	2, 4, 6	942	415	912	246	48	M16	110	100	5	14	51.6	48	M16	110	100	5	14	52
200 L	2, 4, 6	1004	460	974	246	55	M20	110	100	5	16	59	55	M20	110	100	5	16	59
225 S	2	1086	480	1062	246	55	M20	110	100	5	16	59	55	M20	110	100	5	16	59
	4, 6	1146	510	1092		60		140	125	7.5	18	64	60		140	125	7.5	18	64
225 M	2	1086	480	1062	246	55	M20	110	100	5	16	59	55	M20	110	100	5	16	59
	4, 6	1146	510	1092		60		140	125	7.5	18	64	60		140	125	7.5	18	64
250 M	2	1178	496	1140	354	60	M20	140	125	7.5	18	64	60	M20	140	125	7.5	18	64
	4, 6					65						69	65						69

Motors with Explosion Protection
SIMOTICS XP 1MD5 motor series

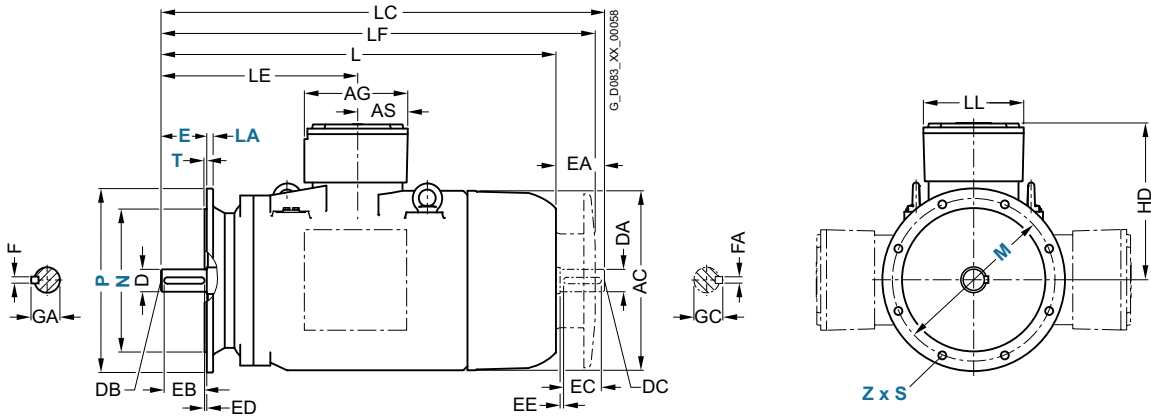
Dimensions for frame sizes 280 S to 355 M

Dimensional drawings (continued)

Type of construction IM B3



Types of construction IM B5 and IM V1
For flange dimensions, see Page 2/26.

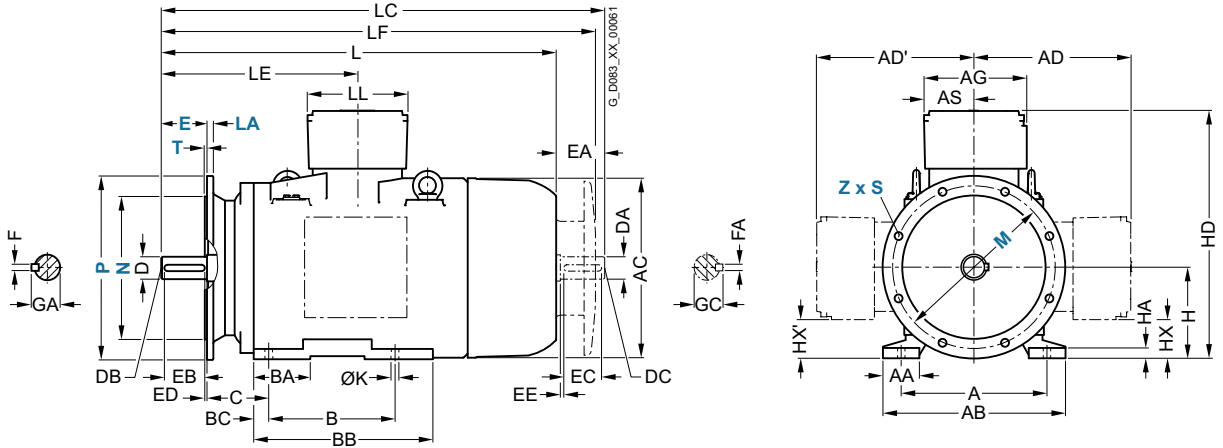


		Dimension designation acc. to IEC																
Frame size	No. of poles	A	AA	AB	AC	AD	AG	AS	B	BA	BB	BC	C	H	HA	HD	øK	L
SIMOTICS XP																		
280 S	2 4, 6	457	110	570	550	552	382	176	368	150	520	51	190	280	40	832	25	1119
280 M	2 4, 6	457	110	570	550	552	382	176	419	150	520	51	190	280	40	832	25	1119
315 S	2 4, 6	508	125	630	622	660	509	196	406	165	575	59	216	315	40	975	28	1304 1334
315 M	2 4, 6	508	125	630	622	660	509	196	457	165	575	59	216	315	40	975	28	1304 1334
315 LL	2 4, 6	508	125	630	622	676	509	196	508	165	575	59	216	315	40	991	28	1491 1521
315 L	2 4, 6	508	125	630	622	676	509	196	560	165	575	59	216	315	40	991	28	1491 1521
355 M	2 4, 6	630	150	780	734	–	509	196	800	220	980	90	254	355	35	1182	35	1781 1840

Dimensional drawings (continued)

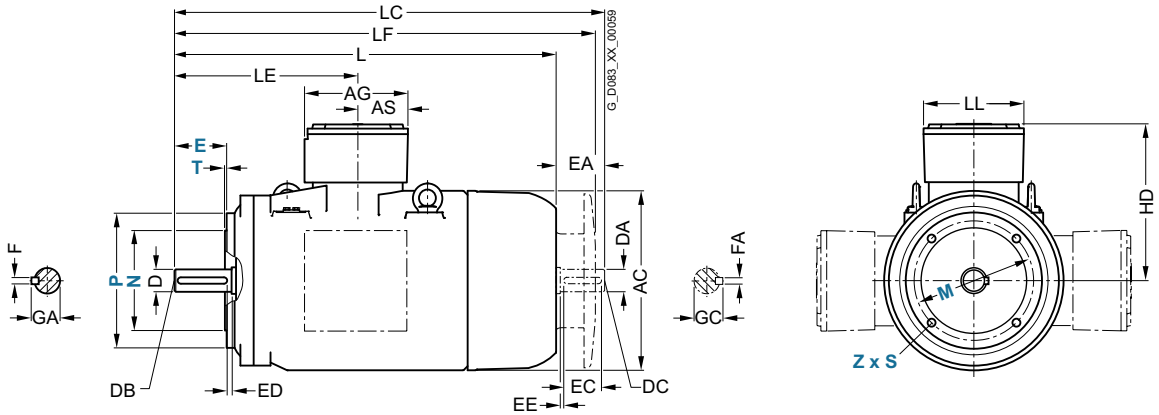
Type of construction IM B35

For flange dimensions, see Page 2/26.



Type of construction IM B14

For flange dimensions, see Page 2/26.



		Dimension designation acc. to IEC					DE shaft extension					NDE shaft extension								
Frame size	No. of poles	LC	LE	LF	LL	D	DB	E	EB	ED	F	GA	DA	DC	EA	EC	EE	FA	GC	
SIMOTICS XP																				
280 S	2	1269	582	1231	354	65	M20	140	125	7.5	18	69	65	M20	140	125	7.5	18	69	
	4, 6					75					20	79.5	75					20	79.5	
280 M	2	1269	582	1231	354	65	M20	140	125	7.5	18	69	65	M20	140	125	7.5	18	69	
	4, 6					75					20	79.5	75					20	79.5	
315 S	2	1494	630	1422	401	65	M20	140	125	7.5	18	69	65	M20	140	125	7.5	18	69	
	4, 6	1554	660	1452		80		170	140	15	22	79.5	80		170	140	15	22	80	
315 M	2	1494	630	1422	401	65	M20	140	125	7.5	18	69	65	M20	140	125	7.5	18	69	
	4, 6	1554	660	1452		80		170	140	15	22	85	80		170	140	15	22	85	
315 LL	2	1694	630	1609	401	65	M20	140	125	7.5	18	69	65	M20	140	125	7.5	18	69	
	4, 6	1741	660	1639		80		170	140	15	22	85	80		170	140	15	22	85	
315 L	2	1694	630	1609	401	65	M20	140	125	7.5	18	69	65	M20	140	125	7.5	18	69	
	4, 6	1741	660	1639		80		170	140	15	22	85	80		170	140	15	22	85	
355 M	2	1986	793	1947	401	75	M20	140	125	7.5	20	79.5	75	M20	140	125	7.5	20	79.5	
	4, 6	2115	863	2006		100	M24	210	180	15	28	106	75		140		7.5	20	79.5	