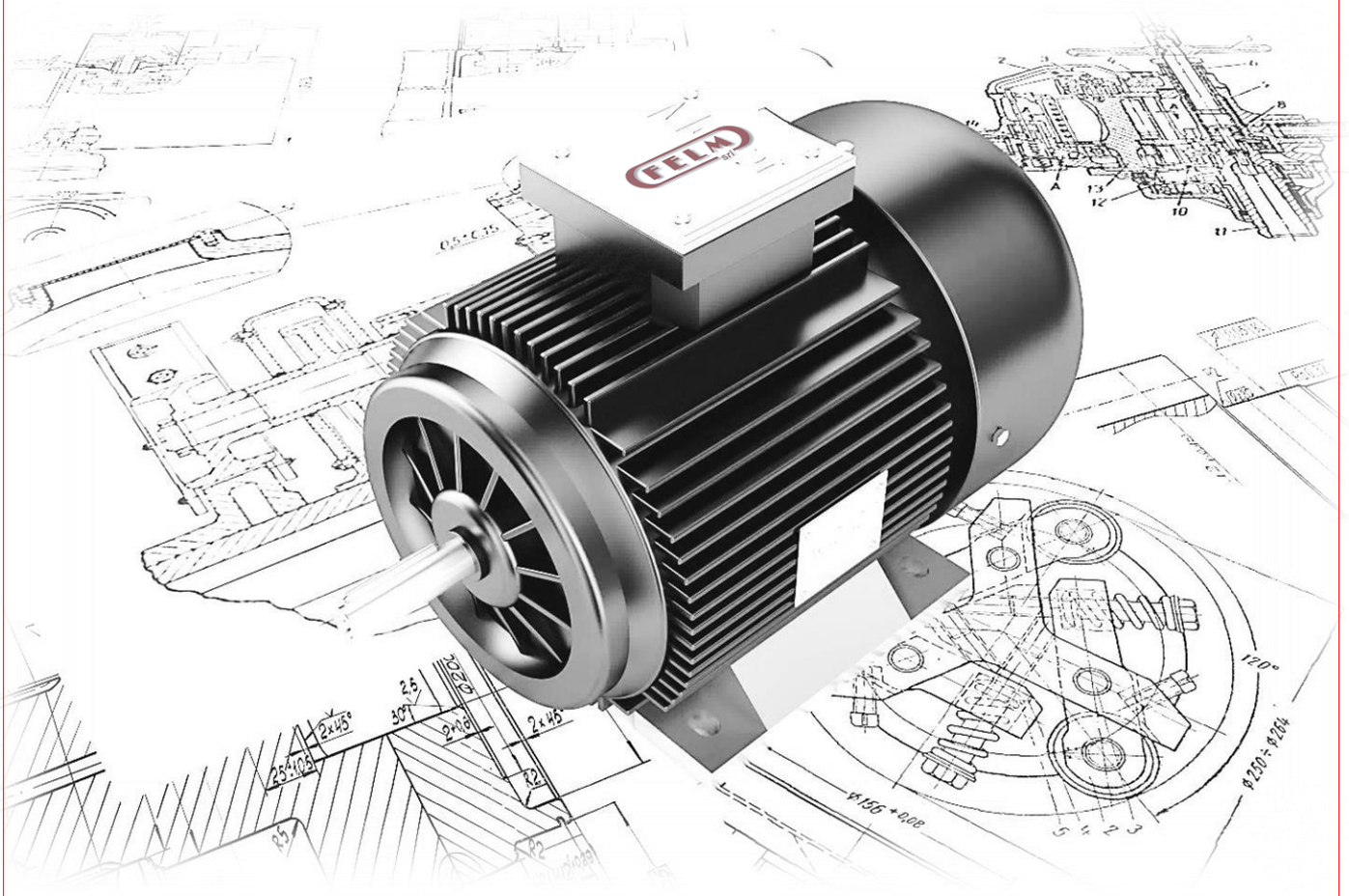
FELM

Electric Motors - www.felm.it

INVERTER DUTY MOTORS

LOW VOLTAGE



Your Engineering Company of Electric Motors

11/2019 rev.2

GENERAL CHARACTERISTICS

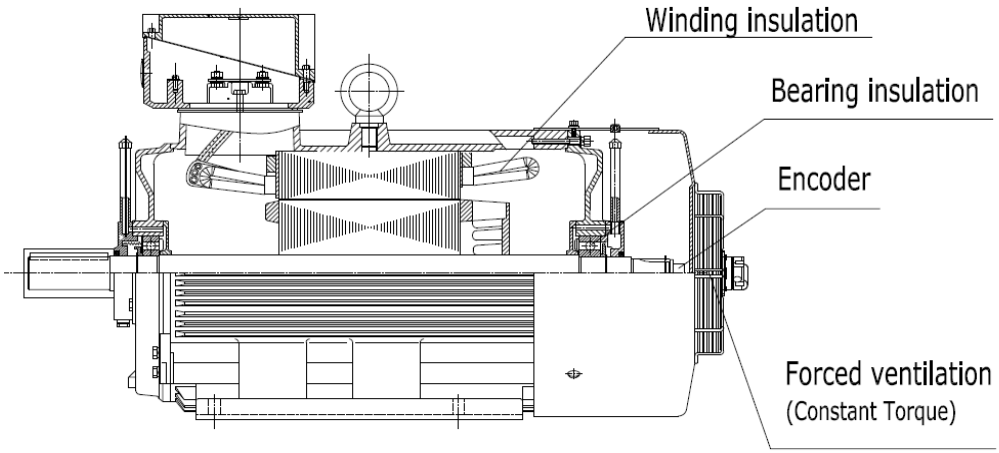
The design, manufacturing and testing of squirrel cage induction motors made by FELM® are in according to IEC standard, Felm supply high quality cast iron motors with high performance and technical flexibility to meet the customer request. The motors are widely used in various industries like mining, pumps, compressors, wind machineries, fans ect.

Compact Series Motors Technical details:

Efficiency level: Premium IE2/IE3/IE4 Motors < 220 kW - > 1500 kW High efficiency level
Number of Poles: 2 up to 12
Frequency: 50 Hz. **(Optional: 60 Hz.)**
Voltage: 400 V. **(Optional: other rated voltages)**
Frames: 315 up to 560
Cast iron frame
Cooling system: IC411 **(Options: IC416 Inverter use rated 1:10)**
Die cast Aluminum Rotor
Color: RAL 5010 (Blue) **(Options: others type of color)**
Shaft sealing: O´Ring
VPI Insulation System
Insulation class F (class B temperature rise) **(Options: Class H)**
Random winding from 315X/355X/400X/450X
Formed winding for 500X and 560X frame
Degree of protection: IP55 **(Options: IP56 - IP65)**
Mounting: B3 **(Options: B35 - V1)**
Painting plan: **(Options: Marine - Chemical - Munsell)**
Internal epoxy coating (tropicalized)
Sintered drain plug
Terminal block on top
Shaft Material: C45
Double grounding (1 inside terminal box + 2 on the frame)
Grease Caltex SRI-2 or SKF LGHP2 **(Different types recommended by Felm)**
Re-greasing system for frames 315 up to 560

Options:
Space Heaters, PT100 connected in separate auxiliary terminal box
Vibration probe/temperature probe
Trip amplifier 4-20 mA signal forced ventilation
Predisposition and All type of Encoder
Special shaft materials, grounding brush
Automatic lubrication on board remote control vibration and temperature
DC or AC Brake

- Standard mounting: IEC60034-F - Standard protection: IEC60034-5
- Variable frequency motors whose are designed to be lead by frequency converter can work under variable-frequency power.
- Vacuum Pressure Impregnation (VPI)
- Double insulated reinforced copper wires.
- Special insulation system, high frequency harmonic shock resistance.
- For heavy application windings in copper bar.
- Insulating bearings construction for shaft voltage resistance, SKF Insocoat bearings.
- Power range: 0.55~1800 kW.
- Frame range: H 80~H 630.
- Motors are equipped with a faire cooling ventilation under different speed.
- IC416 Cooling, upon request.
- Specific winding can be used for various voltages (50Hz or 60Hz).
- Motors can be equipped with encoder that can fluently start and precisely controlled.
- PTC, PT100 and other thermal elements can be chosen to protect winding and bearings.
- Heater can be added to prevent moisture.

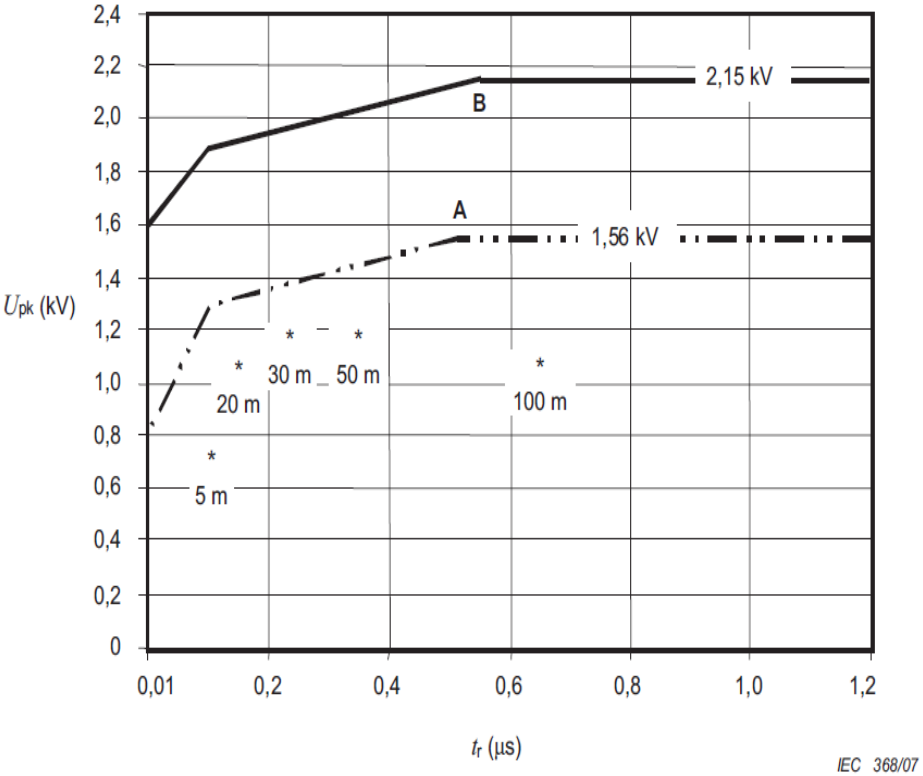


In the case of higher values it is suggested to use a suitable filter between the motor and the inverter to reduce the stress on the motor.

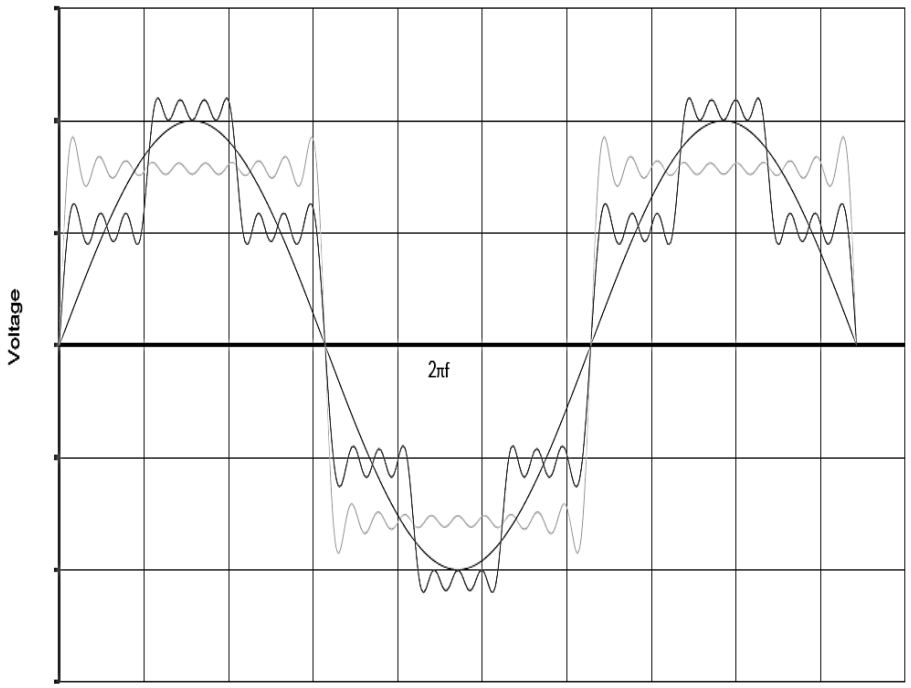
A filter is required in case of excessive length of the power cables (distance between motor and inverter greater than 65 mt.)

A Without filters for motors up to 500 V a.c.
B Without filters for motors up to 690 V a.c.
* Examples of measured results at 415 V supply, for different lengths of steel armored cable

Rules IEC 60034-25



Waveform output from the inverter



4 Pole

Type	Output	Current	Rated Torque	Break-down torque /rated torque multiple	Rated speed	Weight Kg. (approx)	
	kW	A	Nm		r/min	IC416	IC411
F2-VP 90S-4	1,1	2,8	7,53	2,8	1395	24	22
F2-VP 90L-4	1,5	3,7	10,1	2,8	1412	29	28
F2-VP 100L1-4	2,2	5,08	14,7	2,8	1431	36	34
F2-VP 100L2-4	3	6,86	20	2,8	1431	40	38
F2-VP 112M-4	4	8,48	26,5	2,8	1438	48	44
F2-VP 132S-4	5,5	11,7	36,3	2,8	1445	70	61
F2-VP 132M-4	7,5	15,1	49,5	2,8	1445	82	73
F2-VP 160M-4	11	22	72,4	2,8	1451	125	113
F2-VP 160L-4	15	29,5	98,5	2,8	1452	145	133
F2-VP 180M-4	18,5	35	120	2,8	1465	187	167
F2-VP 180L-4	22	42	143	2,8	1464	201	181
F2-VP 200L-4	30	56,6	195	2,8	1468	257	232
F2-VP 225S-4	37	70,6	240	2,8	1472	317	287
F2-VP 225M-4	45	84,9	290	2,8	1477	352	322
F2-VP 250M-4	55	120	355	2,8	1477	411	381
F2-VP 280S-4	75	137	483	2,8	1481	545	510
F2-VP 280M-4	90	163	580	2,8	1481	635	600
F2-VP 315S-4	110	204	707	2,8	1485	961	921
F2-VP 315M-4	132	237	848	2,8	1485	1042	1002
F2-VP 315L-4	160	282	1028	2,8	1486	1110	1070
F2-VP 315LX-4	200	360	1281	2,8	1491	1221	1181
F2-VP 355M-4	250	444	1600	2,8	1492	1765	1720
F2-VP 355L-4	315	558	2015	2,8	1493	1995	1950

Major power on request

6 Pole

Type	Output	Current	Rated Torque	Break-down torque /rated torque multiple	Rated speed	Weight Kg. (approx)	
	kW	A	Nm		r/min	IC416	IC411
F2-VP 90S-6	0,75	2,29	7,76	2,8	922	25	23
F2-VP 90L-6	1,1	3,15	11,4	2,8	918	29	25
F2-VP 100L-6	1,5	3,96	15,3	2,8	933	36	33
F2-VP 112M-6	2,2	5,27	22,2	2,8	946	43	39
F2-VP 132S-6	3	7,36	29,6	2,8	965	64	56
F2-VP 132M1-6	4	9,52	39,5	2,8	965	79	71
F2-VP 132M2-6	5,5	12,5	54,3	2,8	967	83	75
F2-VP 160M-6	7,5	16,8	74	2,8	968	120	108
F2-VP 160L-6	11	32	108	2,8	966	143	131
F2-VP 180L-6	15	30,8	146	2,8	976	191	171
F2-VP 200L1-6	18,5	37,3	180	2,8	978	246	216
F2-VP 200L2-6	22	43,9	215	2,8	976	255	225
F2-VP 225M-6	30	58,9	291	2,8	984	322	292
F2-VP 250M-6	37	69,3	360	2,8	981	438	408
F2-VP 280S-6	45	84,2	436	2,8	985	500	465
F2-VP 280M-6	55	102	535	2,8	983	575	540
F2-VP 315S-6	75	143	723	2,8	990	901	861
F2-VP 315M-6	90	173	870	2,8	988	980	940
F2-VP 315L-6	110	206	1063	2,8	988	1150	1110
F2-VP 315LX-6	132	243	1275	2,8	989	1215	1175
F2-VP 355M-6	160	283	1540	2,8	992	1735	1690
F2-VP 355MY-6	200	353	1925	2,8	922	1915	1870
F2-VP 355L-6	250	4454	2409	2,8	991	2025	1980

Major power on request

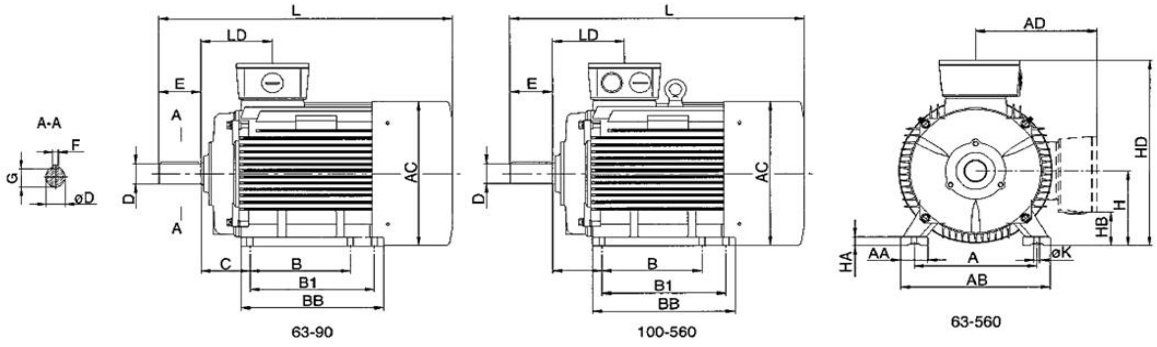
8 Pole

Type	Output	Current	Rated Torque	Break-down torque /rated torque multiple	Rated speed	Weight Kg. (approx)	
	kW	A	Nm		r/min	IC416	IC411
F2-VP 132S-8	2,2	5,92	29,3	2,8	715	70	62
F2-VP 132M-8	3	7,56	40,1	2,8	713	74	66
F2-VP 160M-8	4	9,71	53,2	2,8	718	106	94
F2-VP 160MX-8	5,5	13,3	72,7	2,8	722	118	106
F2-VP 160L-8	7,5	17	99,3	2,8	721	140	128
F2-VP 180L-8	11	24,9	144	2,8	725	190	170
F2-VP 200L-8	15	33,8	196	2,8	731	255	230
F2-VP 225S-8	18,5	40,8	241	2,8	733	297	272
F2-VP 255M-8	22	46,1	286	2,8	734	319	294
F2-VP 250M-8	30	62,2	390	2,8	734	395	370
F2-VP 280S-8	37	75,6	480	2,8	736	510	475
F2-VP 280M-8	45	93,3	583	2,8	767	590	555
F2-VP 315S-8	55	112	710	2,8	740	945	905
F2-VP 315M-8	75	150	968	2,8	740	1021	981
F2-VP 315L-8	90	179	1160	2,8	741	1141	1071
F2-VP 315LX-8	110	217	1415	2,8	742	1200	1160
F2-VP 355M-8	132	252	1694	2,8	744	1845	1800
F2-VP 355MY-8	160	298	2053	2,8	744	1935	1890
F2-VP 355L-8	200	379	2567	2,8	744	2085	2040

Major power on request

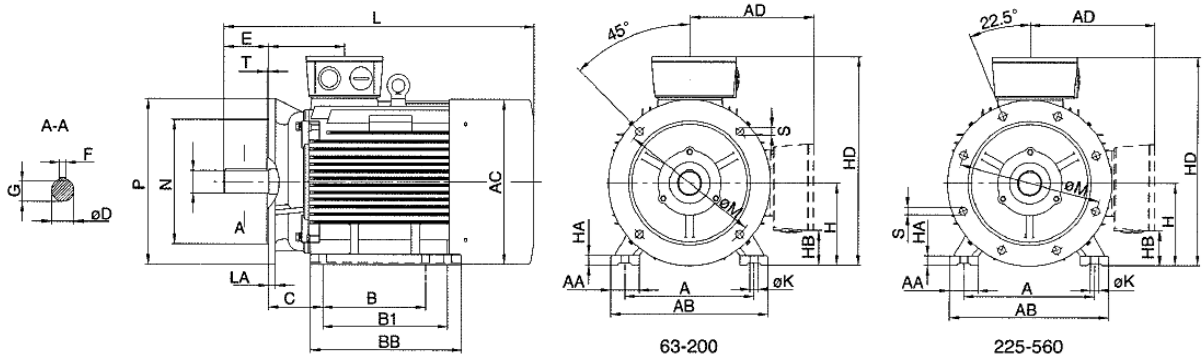
All data (technical, dimensions, etc..) listed in the tables are indicative and not binding. The guaranteed values are upon request. Felm srl reserves the right to change the project, the technical characteristics and dimensions at any time without previous notice.

Tutti i dati (tecnici, dimensionali, ecc.) riportati nelle tabelle sono indicativi e non impegnativi. I valori garantiti vengono rilasciati su richiesta. Con l'obiettivo di un continuo sviluppo del Prodotto Motore Elettrico, FELM srl si riserva il diritto di modificare il progetto, le caratteristiche tecniche e dimensionali in qualsiasi momento senza preavviso.



◆ B3

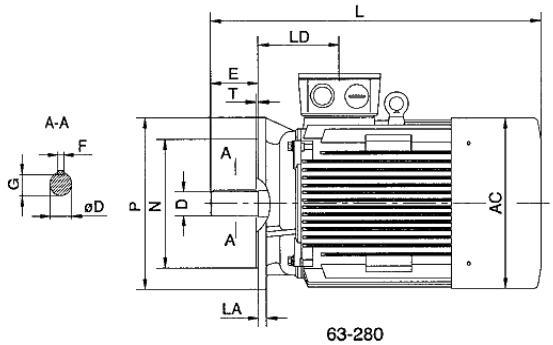
frame	Pole	Dimension							Dimension										
		A	B	B1	C	CA	H	K	AA	AB	AC	AD	BB	HA	HB	HB On top	HB L&R	LD	L	LC
63	2-8	100	80		40	-	63° -0,5	7	30	135	130	-	115	8	-	180	-	65	225	253
71	2-8	112	90		45	-	71° -0,5	7	32	150	145	-	125	8		195	-	70	250	285
80	2-8	125	100	-	50	98	80° -0,5	10	35	160	160	145	130	12	36	225	160	75	280	336
90S	2-8	140	100	-	56	117	90° -0,5	10	36	180	180	155	140	12	50	245	180	75	315	373
90L	2-8	140	125	-	56	117	90° -0,5	10	36	180	180	155	165	12	50	245	180	75	340	373
100L	2-8	160	140	-	63	120	100° -0,5	12	40	200	200	180	175	14	55	280	200	83	375	443
112M	2-8	190	140	-	70	138	112° -0,5	12	45	230	220	190	180	15	60	305	222	87	400	468
132S	2-8	216	140	-	89	164	132° -0,5	12	55	265	260	220	190	18	65	355	262	102	465	553
132M	2-8	216	178	-	89	146	132° -0,5	12	55	265	260	220	230	18	65	355	262	102	505	593
160M	2-8	254	210	-	108	188	160° -0,5	15	65	315	315	265	260	20	81	425	385	146	608	726
160L	2-8	254	254	-	108	188	160° -0,5	15	65	315	315	265	305	20	81	425	385	146	652	770
180M	2.4	279	241	-	121	226	180° -0,5	15	70	350	360	280	315	22	105	460	420	161	690	808
180L	4-8	279	279	-	121	228	180° -0,5	15	70	350	360	280	350	22	105	460	420	161	730	848
200L	2-8	318	305	-	133	220	200° -0,5	19	70	390	400	310	370	25	85	510	475	186	760	878
225S	4-8	356	286	-	149	243	225° -0,5	19	75	435	450	335	370	28	110	555	535	189	810	928
225M	2	356	311	-	149	243	225° -0,5	19	75	435	450	335	395	28	110	555	535	189	805	923
	4-8	356	311	-	149	198	225° -0,5	19	75	435	450	335	395	28	110	555	535	189	835	953
250M	2	406	349	-	168	261	250° -0,5	24	80	485	485	375	445	30	110	625	570	207	910	1028
	4-8	406	349	-	168	261	250° -0,5	24	80	485	485	375	445	30	120	625	570	207	910	1028
280S	2	457	368	-	190	295	280° -1,0	24	85	545	550	405	490	35	142	685	660	215	985	1103
	4-8	457	368	-	190	315	280° -1,0	24	85	545	550	405	490	35	142	685	660	215	1005	1153
280M	2	457	419	-	190	289	280° -1,0	24	85	545	550	405	540	35	142	685	660	215	1030	1148
	4-8	457	419	-	190	319	280° -1,0	24	85	545	550	405	540	35	142	685	660	215	1060	1208
315S	2	508	406	-	216	426	315° -1,0	28	120	630	625	560	570	45	110	875	780	257	1180	1328
	4-8	508	406	-	216	426	315° -1,0	28	120	630	625	560	570	45	110	875	780	257	1210	1358
315M 315L	2	508	457	508	216	485	315° -1,0	28	120	630	625	560	680	45	110	875	780	257	1290	1438
	4-8	508	457	508	216	485	315° -1,0	28	120	630	625	560	680	45	110	875	780	257	1320	1498
355M	2	610	500	560	254	640	355° -1,0	28	120	730	700	615	750	52	110	970	830	284	1526	1674
	4-8	610	500	560	254	640	355° -1,0	28	120	730	700	615	750	52	110	970	830	284	1556	1734
355L	2	610	560	630	254	580	355° -1,0	28	120	730	700	615	750	52	110	970	830	284	1526	1674
	4-8	610	560	630	254	580	355° -1,0	28	120	730	700	615	750	52	110	970	830	284	1556	1734
400M 400L	2	686	710	-	280	698	400° -1,0	35	120	810	860	-	1100	45	-	1090	-	362	1850	2028
	4-8	686	710	-	280	733	400° -1,0	35	120	810	860	-	1100	45	-	1090	-	362	1925	2143



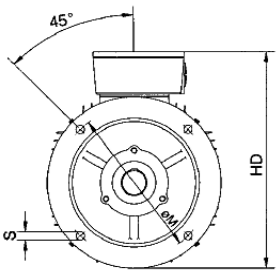
◆ B35

Frame	Poles	Dimension													Dimension											
		A	B	B1	C	CA	H	K	M	N	P	R	S	T	AA	AB	AC	AD	BB	HA	HB	HD		LA	LD	L	LC
																						Top	L&R				
80	2-8	125	100	-	50	98	80° -0,5	10	165	130	200	0	4-Ø12	4	35	160	160	145	130	12	36	225	160	12	75	280	336
90S	2-8	140	100	-	56	117	90° -0,5	10	165	130	200	0	4-Ø12	4	36	180	180	155	140	12	50	245	180	12	75	315	373
90L	2-8	140	125	-	56	117	90° -0,5	10	165	130	200	0	4-Ø12	4	36	180	180	155	165	12	50	245	180	12	75	340	373
100L	2-8	160	140	-	63	120	100° -0,5	12	215	180	250	0	4-Ø15	4	40	200	200	180	175	14	55	280	200	13	83	375	443
112M	2-8	190	140	-	70	138	112° -0,5	12	215	180	250	0	4-Ø15	4	45	230	220	190	180	15	60	305	222	14	87	400	468
132S	2-8	216	140	-	89	164	132° -0,5	12	265	230	300	0	4-Ø15	4	55	265	260	220	190	18	65	355	262	14	102	465	553
132M	2-8	216	178	-	89	146	132° -0,5	12	265	230	300	0	4-Ø15	4	55	265	260	220	230	18	65	355	262	14	102	505	593
160M	2-8	254	210	-	108	188	160° -0,5	15	300	250	350	0	4-Ø19	5	65	315	315	265	260	20	81	425	385	15	146	608	726
160L	2-8	254	254	-	108	188	160° -0,5	15	300	250	350	0	4-Ø19	5	65	315	315	265	305	20	81	425	385	15	146	652	770
180M	2.4	279	241	-	121	226	180° -0,5	15	300	250	350	0	4-Ø19	5	70	350	360	280	315	22	105	460	420	15	161	690	808
180L	4-8	279	279	-	121	228	180° -0,5	15	300	250	350	0	4-Ø19	5	70	350	360	280	350	22	105	460	420	15	161	730	848
200L	2-8	318	305	-	133	220	200° -0,5	19	350	300	400	0	4-Ø19	5	70	390	400	310	370	25	85	510	475	17	186	760	878
225S	4-8	356	286	-	149	243	225° -0,5	19	400	350	450	0	4-Ø19	5	75	435	450	335	370	28	110	555	535	20	189	810	928
225M	2	356	311	-	149	243	225° -0,5	19	400	350	450	0	4-Ø19	5	75	435	450	335	395	28	110	555	535	20	189	805	923
	4-8	356	311	-	149	198	225° -0,5	19	400	350	450	0	4-Ø19	5	75	435	450	335	395	28	110	555	535	20	189	835	953
250M	2	406	349	-	168	261	250° -0,5	24	500	450	550	0	4-Ø19	5	80	485	485	375	445	30	110	625	570	22	207	910	1028
	4-8	406	349	-	168	261	250° -0,5	24	500	450	550	0	4-Ø19	5	80	485	485	375	445	30	120	625	570	22	207	910	1028
280S	2	457	368	-	190	295	280° -1,0	24	500	450	550	0	4-Ø19	5	85	545	550	405	490	35	142	685	660	22	215	985	1103
	4-8	457	368	-	190	315	280° -1,0	24	500	450	550	0	4-Ø19	5	85	545	550	405	490	35	142	685	660	22	215	1005	1153
280M	2	457	419	-	190	289	280° -1,0	24	500	450	550	0	4-Ø19	5	85	545	550	405	540	35	142	685	660	22	215	1030	1148
	4-8	457	419	-	190	319	280° -1,0	24	500	450	550	0	4-Ø19	5	85	545	550	405	540	35	142	685	660	22	215	1060	1208
315S	2	508	406	-	216	426	315° -1,0	28	600	550	660	0	4-Ø24	6	120	630	625	560	570	45	110	875	780	22	257	1180	1328
	4-8	508	406	-	216	426	315° -1,0	28	600	550	660	0	4-Ø24	6	120	630	625	560	570	45	110	875	780	22	257	1210	1358
315M 315L	2	508	457	508	216	485	315° -1,0	28	600	550	660	0	4-Ø24	6	120	630	625	560	680	45	110	875	780	22	257	1290	1438
	4-8	508	457	508	216	485	315° -1,0	28	600	550	660	0	4-Ø24	6	120	630	625	560	680	45	110	875	780	22	257	1320	1498
355M	2	610	500	560	254	640	355° -1,0	28	740	680	800	0	4-Ø24	6	120	730	700	615	750	52	125	970	830	25	284	1526	1674
	4-8	610	500	560	254	640	355° -1,0	28	740	680	800	0	4-Ø24	6	120	730	700	615	750	52	125	970	830	25	284	1556	1734
355L	2	610	560	630	254	580	355° -1,0	28	740	680	800	0	4-Ø24	6	120	730	700	615	750	52	125	970	830	25	284	1526	1674
	4-8	610	560	630	254	580	355° -1,0	28	740	680	800	0	4-Ø24	6	120	730	700	615	750	52	125	970	830	25	284	1556	1734
400M 400L	2	686	710	-	280	698	400° -1,0	35	940	880	1000	0	4-Ø28	6	120	810	860	-	1100	45	-	1090	-	25	362	1850	2028
	4-8	686	710	-	280	733	400° -1,0	35	940	880	1000	0	4-Ø28	6	120	810	860	-	1100	45	-	1090	-	25	362	1925	2143

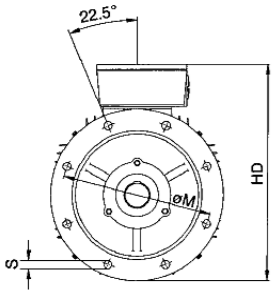
R= distance from flange to shaft shoulder.



63-280



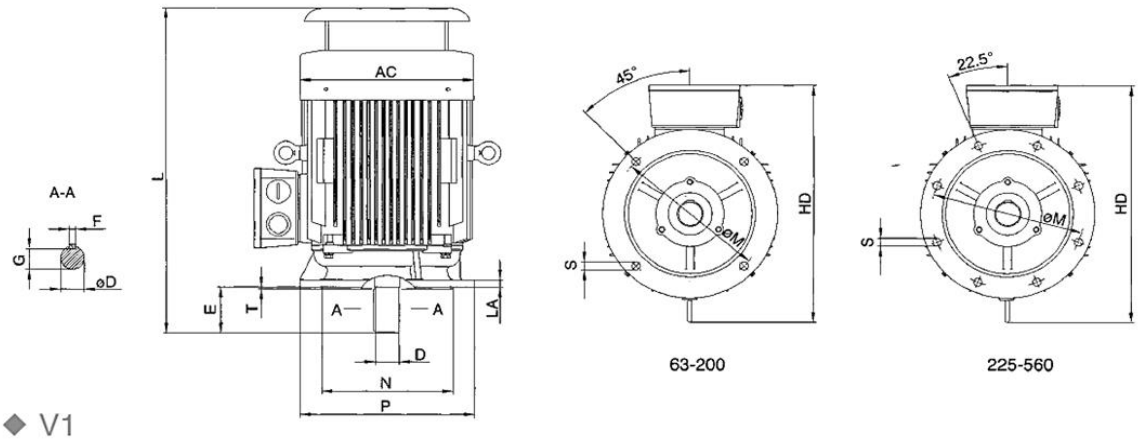
63-200



225-280

◆ B5

Frame	Pole	Dimension						Dimension					
		M	N	P	R	S	T	AC	AD	LA	LD	L	LC
80	2-8	165	130	200	0	4-ø12	4	160	145	12	75	280	336
90S	2-8	165	130	200	0	4-ø12	4	180	155	12	75	315	373
90L	2-8	165	130	200	0	4-ø12	4	180	155	12	75	340	373
100L	2-8	215	180	250	0	4-ø15	4	200	180	13	83	375	443
112M	2-8	215	180	250	0	4-ø15	4	220	193	14	87	400	468
132S	2-8	265	230	300	0	4-ø15	4	260	223	14	102	465	553
132M	2-8	265	230	300	0	4-ø15	4	260	223	14	102	505	593
160M	2-8	300	250	350	0	4-ø19	5	315	265	15	146	608	726
160L	2-8	300	250	350	0	4-ø19	5	315	265	15	146	652	770
180M	2.4	300	250	350	0	4-ø19	5	360	280	15	161	690	808
180L	4-8	300	250	350	0	4-ø19	5	360	280	15	161	730	848
200L	2-8	350	300	400	0	4-ø19	5	400	310	17	186	760	878
225S	4-8	400	350	450	0	4-ø19	5	450	330	20	189	810	928
225M	2	400	350	450	0	4-ø19	5	450	330	20	189	805	923
	4-8	400	350	450	0	4-ø19	5	450	330	20	189	835	953
250M	2	500	450	550	0	4-ø19	5	485	375	22	207	910	1028
	4-8	500	450	550	0	4-ø19	5	485	375	22	207	910	1028
280S	2	500	450	550	0	4-ø19	5	550	405	22	215	985	1103
	4-8	500	450	550	0	4-ø19	5	550	405	22	215	1005	1153
280M	2	500	450	550	0	4-ø19	5	550	405	22	215	1030	1148
	4-8	500	450	550	0	4-ø19	5	550	405	22	215	1060	1208



◆ V1

Frame	Pole	Dimension									Dimension					
		D	E	F	G	M	N	P	R	S	T	AC	HD	LA	LD	L
80	2-8	19	40	6	15.5	165	130	200	0	4-ø12	4	160	225	12	75	305
90S	2-8	24	50	8	20	165	130	200	0	4-ø12	4	180	245	12	75	345
90L	2-8	24	50	8	20	165	130	200	0	4-ø12	4	180	245	12	75	370
100L	2-8	28	60	8	24	215	180	250	0	4-ø15	4	200	280	13	83	410
112M	2-8	28	60	8	24	215	180	250	0	4-ø15	4	220	305	14	87	450
132S	2-8	38	80	10	33	265	230	300	0	4-ø15	4	260	365	14	102	510
132M	2-8	38	80	10	33	265	230	300	0	4-ø15	4	260	365	14	102	550
160M	2-8	42	110	12	37	300	250	350	0	4-ø19	5	315	445	15	146	660
160L	2-8	42	110	12	37	300	250	350	0	4-ø19	5	315	445	15	146	705
180M	2.4	48	110	14	42.5	300	250	350	0	4-ø19	5	360	480	15	161	750
180L	4-8	48	110	14	42.5	300	250	350	0	4-ø19	5	360	480	15	161	790
200L	2-8	55	110	16	49	350	300	400	0	4-ø19	5	400	530	17	186	840
225S	4-8	60	140	18	53	400	350	450	0	4-ø19	5	450	575	20	189	905
225M	2	55	110	16	49	400	350	450	0	4-ø19	5	450	575	20	189	910
	4-8	60	140	18	53	400	350	450	0	4-ø19	5	450	575	20	189	935
250M	2	60	140	18	53	500	450	550	0	4-ø19	5	485	635	22	207	1005
	4-8	65	140	18	58	500	450	550	0	4-ø19	5	485	635	22	207	1005
280S	2	65	140	18	58	500	450	550	0	4-ø19	5	550	725	22	215	1110
	4-8	75	140	20	67.5	500	450	550	0	4-ø19	5	550	725	22	215	1130
280M	2	65	140	18	58	500	450	550	0	4-ø19	5	550	725	22	215	1155
	4-8	75	140	20	67.5	500	450	550	0	4-ø19	5	550	725	22	215	1185
315S	2	65	140	18	58	600	550	660	0	4-ø24	6	625	895	22	257	1340
	4-8	80	170	22	71	600	550	660	0	4-ø24	6	625	895	22	257	1370
315M	2	65	140	18	58	600	550	660	0	4-ø24	6	625	895	22	257	1450
315L	4-8	80	170	22	71	600	550	660	0	4-ø24	6	625	895	22	257	1480
355M	2	75	140	20	67.5	740	680	800	0	4-ø24	6	700	970	25	284	1665
355L	4-8	100	210	25	86	740	680	800	0	4-ø24	6	700	970	25	284	1700
400M	2	80	170	22	71	940	880	1000	0	4-ø28	6	860	1150	25	362	2150
400L	4-8	110	210	28	100	940	880	1000	0	4-ø28	6	860	1150	25	362	2220

Note:

All data (technical, dimensions, etc.) listed in the tables are indicative and not binding. The guaranteed values are upon request. Felm srl reserves the right to change the project, the technical characteristics and dimensions at any time without previous notice.

Tutti i dati (tecnici, dimensionali, ecc.) riportati nelle tabelle sono indicativi e non impegnativi. I valori garantiti vengono rilasciati su richiesta. Con l'obiettivo di un continuo sviluppo del Prodotto Motore Elettrico, FELM srl si riserva il diritto di modificare il progetto, le caratteristiche tecniche e dimensionali in qualsiasi momento senza preavviso.

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