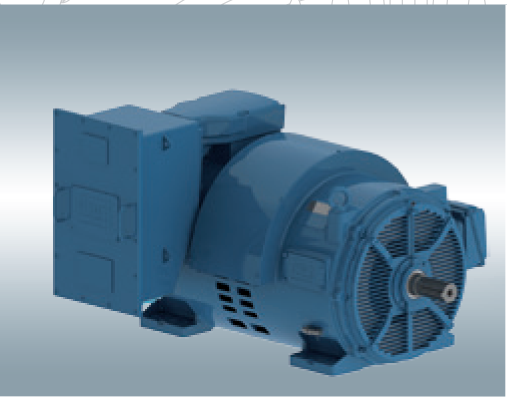
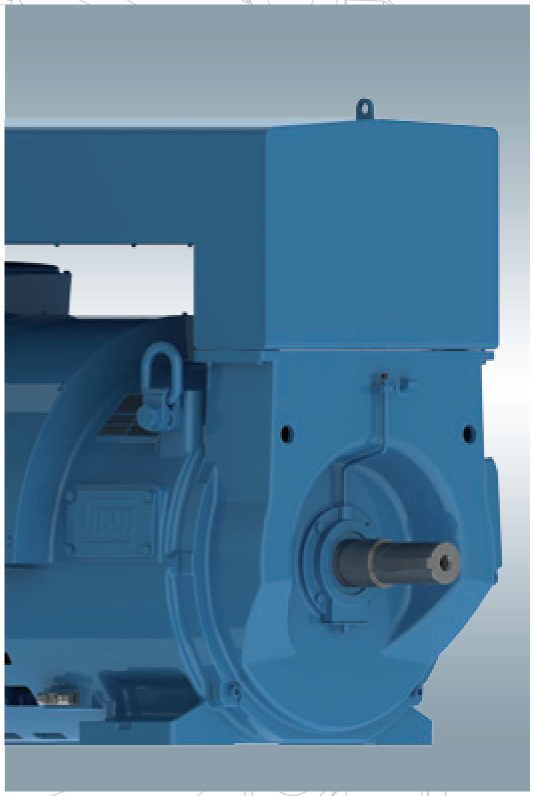
W40

TECHNICAL CATALOG
NEMA MARKET

Three-phase Electric Open Drip Proof Motor

Frames NEMA 447/9T up to L6808/09





W40
Open Induction Motors

The W40 motor is a general purpose line designed for environments where dirt and moisture are minimal. The W40 cast iron frame is designed to provide maximum ventilation and heat dissipation, offering low vibration levels, high mechanical stiffness and durability. Widely used in applications such as compressors, pumps and chillers, the W40 line meets or exceeds the efficiency levels determined by International Standards and the minimum efficiency level programs in force worldwide.

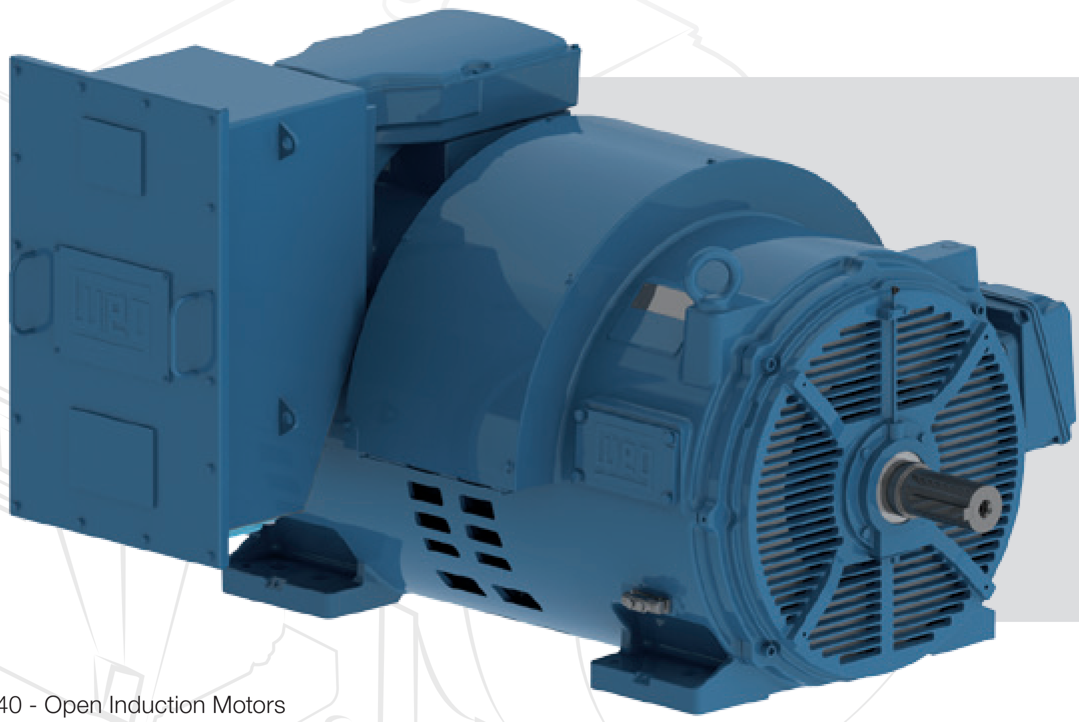
Standard Features

- Rated output: NEMA (60 Hz) - 200 to 2,500 HP
- Number of poles: 2, 4 and 6
- Frame sizes NEMA 447/9T up to L6808/09
- Frequency: 50 or 60 Hz
- Voltage: 208 to 4,160 V
- Insulation class F (DT 80K)
- Degree of protection: IP23 (frames 447/9T up to L5810/11)
  IP24 (for frame size L6808/09)
- Efficiency levels: High Efficiency and NEMA Premium Efficiency
- Color: RAL 5009 (Blue)
- Cooling method: IC-01 according to DIN EN 60034-6
- Mounting: F-1(B3)
- Frame and end-shields material: FC 200 cast iron
- Terminal box material: FC 200 cast iron (frames 447/9T and 5010/11)
  Steel plate (frames L5010/11 and above)
- Flying leads for motor connection
- Grease nipples for all frames
- Ball bearings
- Suitable for frequency inverter operation for voltages up to 460V. Meets NEMA MG1 Part 31
- Pt-100 3 wires two per phase for frame size 5010/11 up to L6808/09 - Voltage 1.2kV and above.
- Thermistor PTC 155° for all low voltage frames.

Optional Features

- Voltage: 5,000 to 6,600 V
- Number of poles: 8 poles and above
- Other mounting configurations, including vertical and flanged motors[1)]
- Accessories terminal box (standard for medium and high voltage motors)
- Terminal block for motor connection
- Thermal protections: Thermostats or RTD's (Pt-100) on windings or bearings
- Class H insulation
- Suitable for frequency inverter operation for voltages above 575 V
- Space heaters
- Cable glands
- Roller bearings
- Sleeve bearings for frames L5810 and above[2)]
- Degree of protection WPI for frame size 5010 and up.

Note: 1) Footless motors are not available in frames 447/9T and above.
WP motors can not be assembled in vertical position.
2) Sleeve bearings are not available for flanged motors.



The W40 motor is an effective option for applications which do not require a high degree of protection. Due to its open enclosure, the motor design permits higher output levels to be achieved when compared with totally enclosed motors, resulting in a cost effective solution for driven equipment. The motor enclosures are carefully designed with high-tech simulation tools to ensure low sound pressure levels, even with the high amount of air circulating inside the casting.

W40
The Most Cost-Effective Industrial Motor

Electrical Data

High Efficiency - Low Voltage

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (sq.ft.lb)	Allowable locked rotor time (s)		Weight (lb)	Sound dB(A)	Service Factor	460 V							
														Rated speed (rpm)	% of full load						Full load current In (A)
															Efficiency			Power Factor			
HP	kW			Code	Il/In				Hot	Cold					50	75	100	50	75	100	
II Poles																					
350	260	447/9TS	509	G	6,5	1,7	2,5	35,7	14	31	1874	85,0	1,15	3565	94,5	95,0	95,0	0,83	0,88	0,89	386
400	300	447/9TS	581	F	6,0	1,5	2,3	39,1	14	31	1951	85,0	1,15	3565	95,0	95,4	95,4	0,83	0,88	0,89	443
450	330	447/9TS	654	F	6,0	1,6	2,2	43,6	14	31	2139	85,0	1,15	3565	95,0	95,4	95,8	0,84	0,89	0,90	480
500	370	447/9TS	727	F	6,0	1,6	2,3	46,9	14	31	2194	85,0	1,15	3565	95,0	95,4	95,8	0,84	0,89	0,90	539
550	400	447/9TS	799	G	7,2	2,0	2,5	50,3	14	31	2326	85,0	1,15	3565	95,0	95,4	95,8	0,84	0,89	0,90	582
600	440	447/9TS	871	H	7,9	2,0	2,7	53,6	14	31	2414	85,0	1,15	3570	95,0	95,4	95,8	0,83	0,89	0,90	641
650	480	5010/11	943	G	6,5	1,8	2,3	73,3	12	26	2977	89,0	1,15	3570	94,5	95,0	95,4	0,78	0,85	0,88	718
700	515	5010/11	1016	G	6,8	2,0	2,4	78,5	16	35	3087	89,0	1,15	3570	95,0	95,4	95,4	0,79	0,86	0,88	770
750	550	5010/11	1085	H	7,5	2,1	2,6	89,0	12	26	3308	89,0	1,15	3580	95,0	95,8	95,8	0,76	0,83	0,87	828
800	590	5010/11	1159	H	7,4	2,0	2,5	89,0	12	26	3528	89,0	1,15	3575	95,4	95,8	95,8	0,78	0,85	0,87	888
850	630	5010/11*	1232	H	7,4	2,0	2,5	95,7	10	22	3638	89,0	1,00	3575	95,4	95,8	95,8	0,78	0,85	0,88	938
900	660	5010/11*	1304	G	7,2	2,0	2,5	95,7	8	18	3749	89,0	1,00	3575	95,4	95,8	95,8	0,78	0,85	0,88	983
IV Poles																					
300	220	447/9T	873	F	6,0	2,2	2,3	56,1	10	22	2150	77,0	1,15	1780	95,4	95,4	95,5	0,78	0,84	0,86	336
350	260	447/9T	1019	F	6,0	2,4	2,6	66,1	10	22	2370	77,0	1,15	1780	95,4	95,8	95,5	0,79	0,85	0,87	393
400	300	447/9T	1164	H	7,7	2,6	2,7	77,6	9	20	2591	77,0	1,15	1780	95,8	95,8	95,5	0,81	0,87	0,89	443
450	330	5010/11	1305	F	6,0	2,2	2,2	118	18	40	3087	80,0	1,15	1787	95,0	95,4	95,4	0,73	0,82	0,85	511
500	370	5010/11	1450	F	6,1	2,3	2,3	131	17	37	3308	80,0	1,15	1787	95,0	95,4	95,4	0,73	0,82	0,85	573
550	400	5010/11	1595	G	6,8	2,2	2,2	144	16	35	3528	80,0	1,15	1787	95,2	95,8	95,8	0,76	0,84	0,87	602
600	440	5010/11*	1740	G	6,8	2,2	2,2	157	12	26	3749	80,0	1,00	1787	95,4	95,8	95,8	0,76	0,84	0,87	663

** Motor with class F (105K) temperature rise.*

Electrical Data

NEMA Premium Efficiency - Low Voltage

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (sq.ft.lb)	Allowable locked rotor time (s)		Weight (lb)	Sound dB(A)	Service Factor	460 V								
														Rated speed (rpm)	% of full load						Full load current In (A)
															Efficiency			Power Factor			
HP	kW			Code	Il/In				Hot	Cold					50	75	100	50	75	100	
II Poles																					
350	260	447/9TS	509	G	6,5	1,7	2,5	35,7	14	31	1874	87,0	1,15	3565	95,0	95,4	95,4	0,83	0,88	0,89	384
400	300	447/9TS	581	G	6,5	1,7	2,5	39,1	14	31	2040	87,0	1,15	3565	95,4	95,8	95,8	0,83	0,88	0,89	442
450	330	447/9TS	654	G	6,8	1,8	2,5	43,6	14	31	2128	87,0	1,15	3565	95,8	96,2	96,2	0,84	0,89	0,90	478
500	370	447/9TS	726	G	7,1	1,9	2,5	46,9	14	31	2194	87,0	1,15	3570	95,8	96,2	96,2	0,84	0,89	0,90	536
550	400	447/9TS	799	G	7,2	2,0	2,5	50,3	14	31	2326	87,0	1,15	3565	95,8	96,2	96,2	0,84	0,89	0,90	580
600	440	447/9TS	871	H	7,9	2,0	2,7	53,6	14	31	2414	87,0	1,15	3570	95,8	96,2	96,2	0,83	0,89	0,90	638
650	480	5010/11	943	G	6,5	1,8	2,3	73,3	12	26	2977	89,0	1,15	3570	95,0	95,4	96,2	0,78	0,85	0,88	712
700	515	5010/11	1016	G	6,8	2,0	2,4	78,5	16	35	3418	89,0	1,15	3570	95,4	95,8	96,2	0,79	0,86	0,88	764
750	560	5010/11	1085	H	7,5	2,1	2,6	89,0	12	26	3308	89,0	1,15	3580	95,4	96,0	96,0	0,76	0,83	0,87	827
800	590	5010/11	1159	H	7,4	2,0	2,5	89,0	12	26	3528	89,0	1,15	3575	95,8	96,2	96,2	0,78	0,85	0,87	885
850	630	5010/11*	1232	H	7,4	2,0	2,5	95,7	10	22	3638	89,0	1,00	3575	95,8	96,2	96,2	0,78	0,85	0,88	934
900	660	5010/11*	1304	G	7,2	2,0	2,5	95,7	8	18	3749	89,0	1,00	3575	95,8	96,2	96,2	0,78	0,85	0,88	979
1000	750	L5010/11	1449	E	5,2	1,3	1,8	126	25	55	5072	89,0	1,00	3575	96,2	96,5	96,5	0,80	0,85	0,87	1120
1100	800	L5810/11	1592	G	6,5	1,2	2,0	198	20	44	6395	94,0	1,00	3580	96,5	97,0	97,0	0,81	0,85	0,87	1190
1250	900	L5810/11	1809	F	6,5	1,1	2,0	217	20	44	6615	94,0	1,00	3580	96,5	97,0	97,0	0,81	0,85	0,87	1340
IV Poles																					
300	220	447/9T	873	G	7,1	2,2	2,3	56,1	10	22	2150	77,0	1,15	1780	95,8	95,8	95,8	0,81	0,87	0,89	324
350	260	447/9T	1019	G	6,6	2,0	2,3	66,1	10	22	2370	77,0	1,15	1780	95,8	95,8	95,8	0,76	0,83	0,86	396
400	300	447/9T	1164	G	6,8	2,3	2,3	77,6	9	20	2591	77,0	1,15	1780	95,8	95,8	95,8	0,78	0,85	0,87	452
450	330	5010/11	1305	G	6,8	2,2	2,2	118	18	40	3087	80,0	1,15	1787	95,4	95,8	96,2	0,73	0,82	0,85	507
500	370	5010/11	1450	H	7,0	2,3	2,3	131	17	37	3308	80,0	1,15	1787	95,4	95,8	96,2	0,73	0,82	0,85	568
550	400	5010/11	1595	G	6,8	2,2	2,2	144	16	35	3528	80,0	1,15	1787	95,6	96,2	96,2	0,76	0,84	0,87	600
600	440	5010/11*	1740	G	6,8	2,2	2,2	157	12	26	3749	80,0	1,00	1787	95,8	96,2	96,2	0,76	0,84	0,87	660
650	480	L5010/11	1887	F	6,0	1,5	2,2	219	25	55	5292	80,0	1,15	1785	95,4	96,2	96,2	0,76	0,83	0,85	737
700	515	L5010/11	2032	H	7,0	1,8	2,3	106	15	33	5954	80,0	1,15	1785	95,4	96,2	96,2	0,70	0,80	0,84	800
750	560	L5010/11	2177	G	6,5	1,7	2,3	248	25	55	5954	80,0	1,15	1785	95,4	96,2	96,2	0,73	0,81	0,84	870
800	590	L5010/11	2322	F	6,2	1,6	2,2	248	25	55	5954	80,0	1,00	1785	95,4	96,2	96,2	0,74	0,82	0,85	906
850	630	L5810/11	2460	G	6,8	1,6	2,1	454	20	44	6615	85,0	1,15	1790	96,4	96,5	96,5	0,77	0,84	0,86	953
900	670	L5810/11	2605	G	7,0	2,0	2,2	503	20	44	7166	85,0	1,15	1790	96,4	96,5	96,5	0,75	0,83	0,86	1010
970	720	L5810/11	2808	G	6,8	1,8	2,1	524	20	44	7166	85,0	1,00	1790	96,4	96,5	96,5	0,78	0,85	0,86	1090
1000	750	L5810/11	2894	H	7,2	1,7	2,0	332	20	44	7718	85,0	1,00	1790	96,4	96,5	96,5	0,78	0,84	0,85	1150
1100	800	L5810/11	3184	H	7,2	1,8	2,1	332	20	44	7718	85,0	1,00	1790	96,4	96,5	96,5	0,77	0,84	0,85	1220
VI Poles																					
200	150	447/9T	874	F	5,8	2,0	2,2	98,2	18	40	2260	79,0	1,15	1185	95,0	95,4	95,4	0,69	0,78	0,82	241
250	185	447/9T	1093	G	6,5	2,2	2,4	115	18	40	2481	79,0	1,15	1185	95,4	95,8	95,8	0,67	0,77	0,81	299
300	220	447/9T*	1306	H	6,7	2,4	2,8	131	18	40	2701	79,0	1,15	1190	95,4	95,8	95,8	0,62	0,73	0,79	365
350	260	5010/11	1524	G	6,2	2,0	2,1	217	15	33	3308	78,0	1,15	1190	95,4	95,8	95,8	0,71	0,80	0,84	406
400	300	5010/11	1741	G	6,3	2,1	2,1	265	15	33	3749	78,0	1,15	1190	95,4	95,8	95,8	0,71	0,80	0,84	468
450	330	5010/11*	1959	G	6,5	2,3	2,3	265	15	33	3749	78,0	1,00	1190	95,4	95,8	95,8	0,68	0,78	0,82	527

** Motor with class F (105K) temperature rise.*

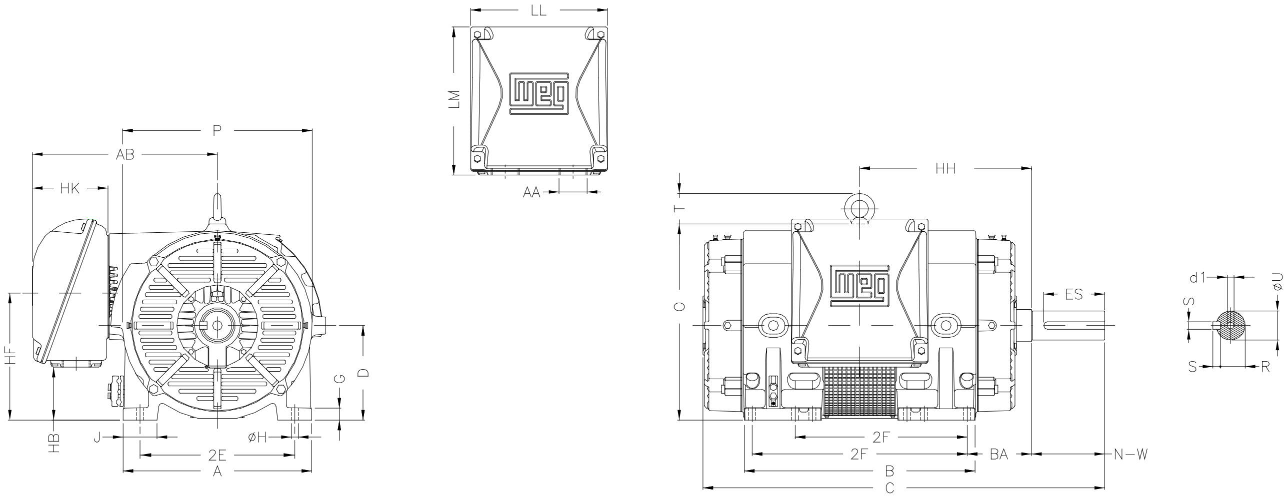
NEMA Premium Efficiency - High Voltage

Output		Frame	Full Load Torque (ft.lb)	Locked Rotor Current		Locked Rotor Torque Tl/Tn	Break-down Torque Tb/Tn	Inertia J (sq.ft.lb)	Allowable locked rotor time (s)		Weight (lb)	Sound dB(A)	Service Factor	4160 V							
														Rated speed (rpm)	% of full load						Full load current In (A)
															Efficiency			Power Factor			
HP	kW			Code	Il/In				Hot	Cold					50	75	100	50	75	100	
II Poles																					
350	260	5010/11	508	H	7,5	1,4	2,7	46,5	12	26	2756	91,0	1,15	3567	93,5	94,5	94,5	0,75	0,84	0,87	43,9
400	300	5010/11	581	H	7,5	1,4	2,7	46,5	10	22	2867	91,0	1,15	3567	93,7	94,7	94,7	0,75	0,84	0,87	50,6
450	330	5010/11	654	H	7,5	1,4	2,7	49,6	10	22	2977	91,0	1,15	3567	94,1	94,8	94,8	0,75	0,84	0,87	55,5
500	370	5010/11	726	H	7,5	1,4	2,7	52,4	10	22	3087	91,0	1,15	3567	94,3	95,0	95,0	0,75	0,84	0,87	62,1
550	400	5010/11	799	H	7,5	1,4	2,7	52,4	10	22	3197	91,0	1,15	3567	94,6	95,2	95,2	0,75	0,84	0,87	67,0
600	440	5010/11	871	H	7,5	1,4	2,7	57,2	10	22	3308	91,0	1,15	3567	94,9	95,4	95,4	0,75	0,84	0,87	73,6
650	480	5010/11	944	H	7,8	1,5	2,8	57,2	8	18	3418	91,0	1,15	3567	95,0	95,5	95,5	0,75	0,84	0,87	80,2
700	515	5010/11	1017	J	8,2	1,5	2,8	61,2	8	18	3528	91,0	1,15	3567	95,0	95,6	95,6	0,75	0,84	0,87	86,0
750	550	5010/11*	1089	H	7,8	1,5	2,8	61,2	8	18	3638	91,0	1,00	3567	95,1	95,7	95,7	0,75	0,84	0,87	91,7
800	590	5010/11*	1162	H	7,8	1,5	2,8	61,2	8	18	3749	91,0	1,00	3567	95,2	95,8	95,8	0,73	0,83	0,86	99,4
900	660	L5810/11	1302	G	7,1	1,1	2,4	213	15	33	4851	94,0	1,15	3580	95,2	96,2	96,2	0,80	0,85	0,88	108
1000	750	L5010/11	1451	F	6,2	0,7	2,2	91,9	20	44	4851	89,0	1,15	3570	95,4	95,8	95,8	0,85	0,88	0,89	122
1000	750	L5810/11	1447	H	7,2	1,1	2,4	233	15	33	5072	94,0	1,15	3580	95,2	96,5	96,5	0,80	0,86	0,88	123
1250	900	L5010/11	1814	F	6,2	0,7	2,2	91,9	10	22	5182	89,0	1,00	3570	95,8	96,2	96,2	0,85	0,88	0,89	146
1500	1100	L5810/11	2171	H	7,3	1,2	2,5	245	12	26	5954	94,0	1,00	3580	96,0	96,5	96,5	0,79	0,84	0,86	184
1750	1320	L5810/11	2533	H	7,5	1,2	2,5	253	12	26	6615	94,0	1,00	3580	96,5	96,8	96,8	0,81	0,87	0,89	213
1900	1400	L6808/09	2753	F	6,0	0,6	2,2	368	15	33	8489	89,0	1,15	3575	96,2	96,5	96,5	0,85	0,88	0,89	226
2000	1500	L6808/09	2894	F	6,5	0,6	2,7	402	15	33	8820	89,0	1,15	3580	96,1	96,8	96,8	0,86	0,90	0,91	236
2250	1650	L6808/09	3261	E	5,8	0,6	2,0	402	15	33	8820	89,0	1,00	3575	96,5	96,8	96,8	0,86	0,88	0,89	266
2500	1800	L6808/09*	3623	E	5,5	0,6	2,0	402	14	31	9041	89,0	1,00	3575	96,5	96,8	96,8	0,87	0,88	0,89	290
IV Poles																					
350	260	5010/11	1018	F	6,0	1,0	2,2	119	20	44	2867	89,0	1,15	1781	93,5	94,0	94,0	0,75	0,83	0,85	45,2
400	300	5010/11	1164	G	6,0	1,0	2,2	127	15	33	3087	89,0	1,15	1781	93,7	94,2	94,2	0,75	0,83	0,85	52,0
450	330	5010/11	1309	F	6,0	1,0	2,2	135	15	33	3308	89,0	1,15	1781	93,8	94,3	94,3	0,75	0,83	0,85	57,1
500	370	5010/11	1454	F	6,0	1,0	2,2	142	15	33	3528	89,0	1,15	1781	94,0	94,5	94,5	0,75	0,83	0,85	63,9
550	400	5010/11	1599	F	6,0	1,0	2,2	157	15	33	3749	89,0	1,15	1782	94,5	95,0	95,0	0,75	0,83	0,85	68,7
600	440	5010/11*	1744	F	6,0	1,0	2,2	157	15	33	3749	89,0	1,00	1782	94,5	95,0	95,0	0,75	0,83	0,85	75,7
650	480	L5010/11	1892	G	6,5	1,0	1,7	203	25	55	4675	80,0	1,15	1780	94,5	95,0	95,0	0,80	0,83	0,84	83,5
700	515	L5810/11	2032	G	6,1	0,8	2,2	296	17	37	4410	94,0	1,15	1785	95,8	96,2	96,2	0,73	0,81	0,83	89,5
800	590	L5810/11	2322	G	6,1	0,8	2,2	338	17	37	4741	94,0	1,15	1785	95,8	96,2	96,2	0,73	0,81	0,83	103
900	660	L5810/11	2612	G	6,2	0,8	2,2	338	17	37	4961	94,0	1,15	1785	96,2	96,5	96,5	0,73	0,82	0,83	114
1000	750	L5810/11	2902	G	6,2	0,8	2,2	380	15	33	5292	94,0	1,15	1785	96,2	96,5	96,5	0,74	0,83	0,84	128
1250	900	L5810/11	3628	F	6,2	0,8	2,2	415	15	33	5843	94,0	1,00	1785	96,2	96,5	96,5	0,74	0,83	0,84	154
1500	1100	L5810/11	4354	F	6,2	0,8	2,2	450	15	33	6615	94,0	1,00	1785	96,2	96,5	96,8	0,75	0,83	0,85	186
1750	1320	L6808/09	5065	G	6,3	0,9	2,2	555	12	26	9041	89,0	1,00	1790	96,4	96,6	96,7	0,74	0,81	0,84	226
2000	1500	L6808/09	5789	G	6,3	0,9	2,2	582	12	26	9482	89,0	1,00	1790	96,6	96,8	96,8	0,74	0,81	0,84	256

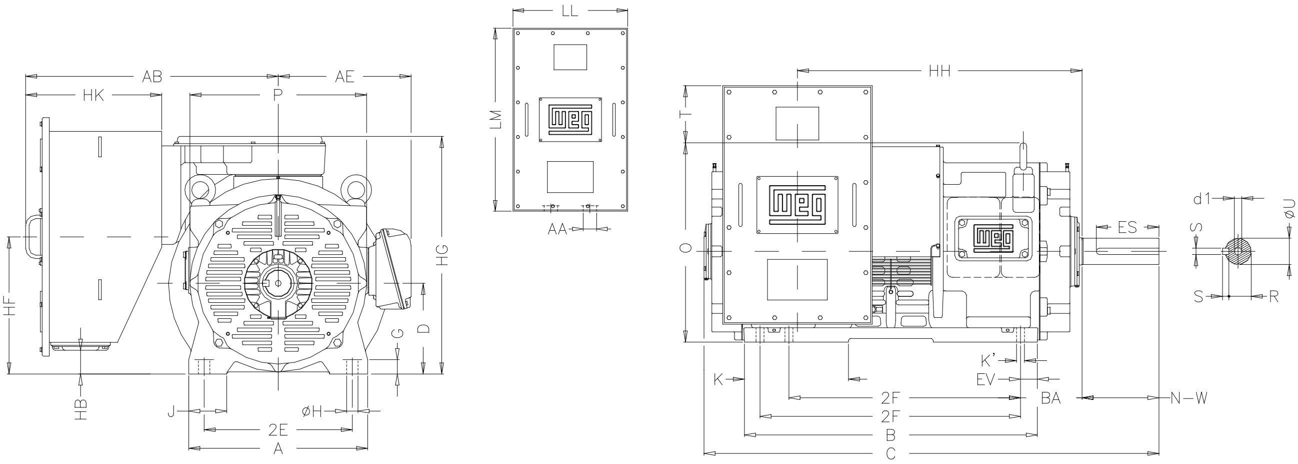
** Motor with class F (105K) temperature rise.*

NEMA Mechanical Data (Dimension in Inches)

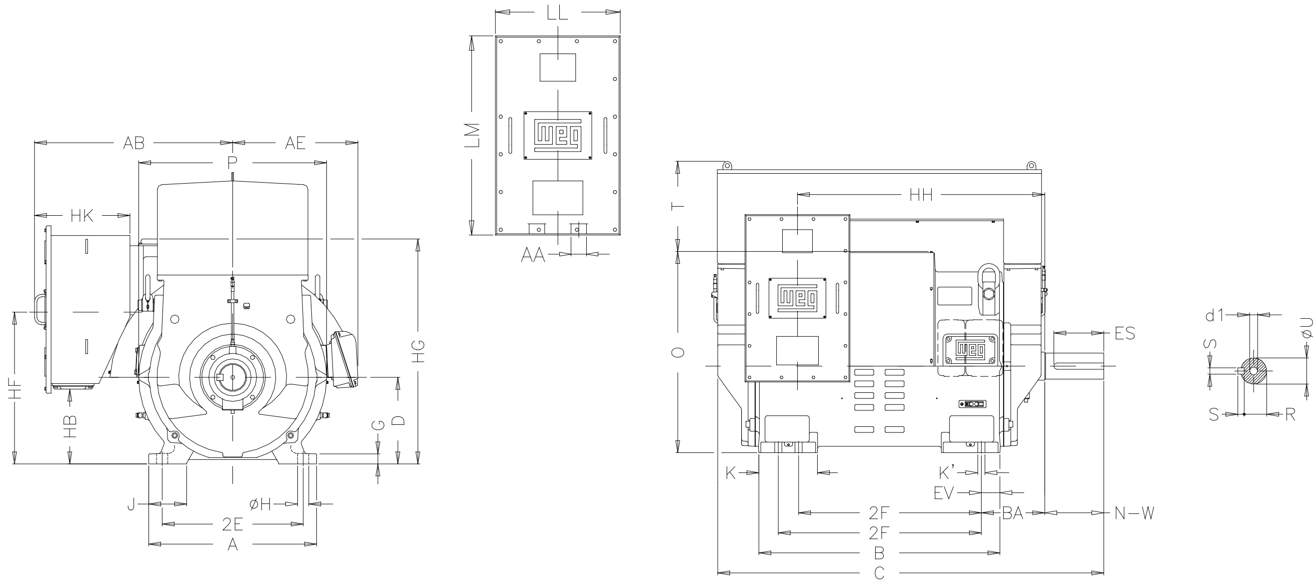
IP23 Frame 447/9T - Low Voltage



IP23 Frames L5010 to L5810 - Low Voltage



IP23 Frames 5010/11 to L5810/11 - Medium Voltage



NEMA Mechanical Data (Dimension in Inches)

IP23 Frame 447/9T - Low Voltage

Frame	2E	J	A	H	G	D	P	AB	2F	K	B	BA	U	d1	N-W
447/9TS	18.000	3.983	21.929	0.810	1.397	11.000	25.197	21.505	18.000/ 20.000	8.971	26.820	7.480	2.375	DUNC 3/4"-10	4.750
447/9T													3.375	DUNC 7/8"-9	8.500

Frame	ES	S	R	O	C	T	LL	LM	HK	HB	HF	AA	Bearing	
													DE	NDE
447/9TS	3.000	0.625	2.021	22.811	42.959	3.543	15.904	17.225	8.907	6.158	17.770	2XNPT 3"	6314 C3	6314 C3
447/9T	7.087	0.875	2.882		46.709								6319 C3	

IP23 Frames L5010 to L5810 - Low Voltage

Frame	2E	J	A	AB	AE	P	2F	K	B	BA	U	d1	N-W	ES	S	R	EV
5010/11	20.000	5.245	24.724	36.207	18.357	30.354	32.000/ 36.000	14.377	40.478	8.504	2.625 [1]	DUNC 3/4"-10	4.750 [1]	3.000 [1]	0.625 [1]	2.275 [1]	2.325
											3.625		10.625	8.661	0.875	3.134	
L5010/11		5.140	24.803	34.907	19.951	33.583		11.165	42.736	8.500	3.250 [1]	DUNC 3/4"-10 [1]	5.750 [1]	4.331 [1]	0.750 [1]	2.831 [1]	2.667
											4.375	DUNC 1"-8	11.625	8.661	1.000	3.817	
L5810/11	23.000	6.726	29.528		21.915	39.488	36.000/40.000	11.292	47.430	10.000	3.375 [1]	DUNC 7/8"-9 [1]	6.750 [1]	5.512 [1]	0.875 [1]	2.882 [1]	3.636
											5.125	DUNC 1 1/4"-7	11.625	9.843	1.250	4.423	

Frame	D	G	O	T	LL	LM	HB	HF	HG	HH	HK	H	K'	C	AA	Bearings	
																DE	NDE
5010/11	12.500	1.972	27.224	8.502	20.669	32.874	3.761	25.042	32.323	39.329	18.805	1.575	1.102	56.992 [1]	2xNPT 4"	6314 C3 [1]	6314 C3 [1]
														62.867		6319 C3	6314 C3
L5010/11	12.500	1.873	29.469	8.108			5.510	25.979	34.992	40.822			1.181	59.093 [1]		6218 C3 [1]	6218 C3 [1]
														64.968		6224 C3	6218 C3
L5810/11	14.500		34.465	6.687			9.085	29.553	38.567	45.827		1.969		65.569 [1]		6220 C3 [1]	6220 C3 [1]
														70.444		6228 C3	6220 C3

Note: 1) Dimension applicable to 2 pole motors.
Note: 2) For side mounted terminal box only.
Note: 3) For top mounted terminal box only.

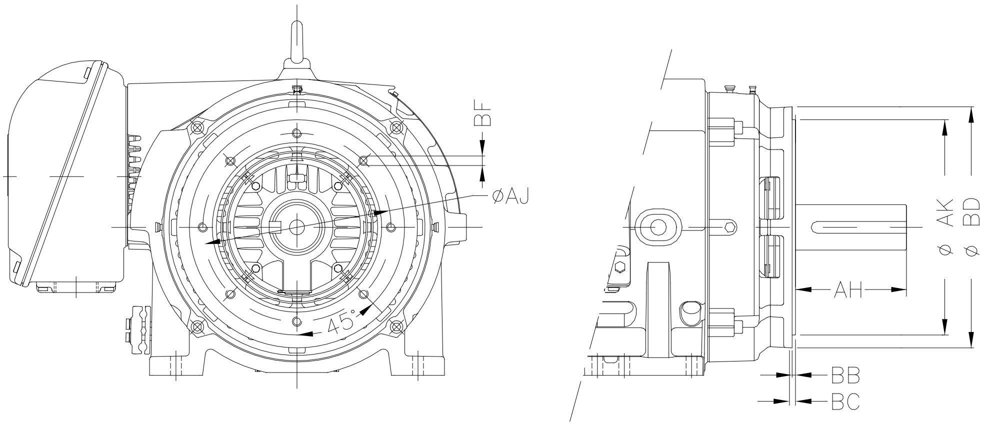
IP23 Frames 5010/11 to L5810/11 - Medium Voltage

Frame	2E	J	A	AB	P	2F	K	B	BA	U	d1	N-W	ES	S	R
5010/11	20.000	5.236	24.724	28.543	30.670	32.000/36.000	14.200	40.478	8.504	2.625 [1]	DUNC 3/4"-10	4.750 [1]	3.000 [1]	0.625 [1]	2.275 [1]
										3.625		10.625	8.661	0.875	3.134
L5010/11	20.000	5.140	24.803	34.907	33.583	32.000/36.000	11.165	42.736	8.500	3.250 [1]	DUNC 3/4"-10 [1]	5.750 [1]	4.331 [1]	0.750 [1]	2.831 [1]
										4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11	23.000	6.726	29.528		39.488	36.000/40.000	11.292	47.430	10.000	3.375 [1]	DUNC 7/8"-9 [1]	6.750 [1]	5.512 [1]	0.875 [1]	2.882 [1]
										5.125	DUNC 1 1/4"-7	11.625	9.843	1.250	4.423

Frame	D	G	O	T	LL	LM	HB	HD	HF	HG	HH	HK	H	H'	C	AA	Bearings	
																	DE	NDE
5010/11	12.500	1.972	27.150	8.502	18.090	28.700	6.150	34.850 [2]	25.042	32.323	39.329	11.410	1.102	1.575	56.992 [1]	NPT 4"	6314 C3 [1]	6314 C3 [1]
								41.510 [3]							62.867		6319 C3	6314 C3
L5010/11	12.500	1.873	29.469	8.108	20.669	32.874	5.510	37.577	25.979	34.992	40.822	18.805	1.181	1.575	59.093 [1]		6218 C3 [1]	6218 C3 [1]
															64.968		6224 C3	6218 C3
L5810/11	14.500		34.465	6.687			9.085	41.152	29.553	38.567	45.827		1.181	1.969	65.569 [1]		6220 C3 [1]	6220 C3 [1]
															70.444		6228 C3	6220 C3

Note: 1) Dimension applicable to 2 pole motors.
Note: 2) For side mounted terminal box only.
Note: 3) For top mounted terminal box only.

FC Flange



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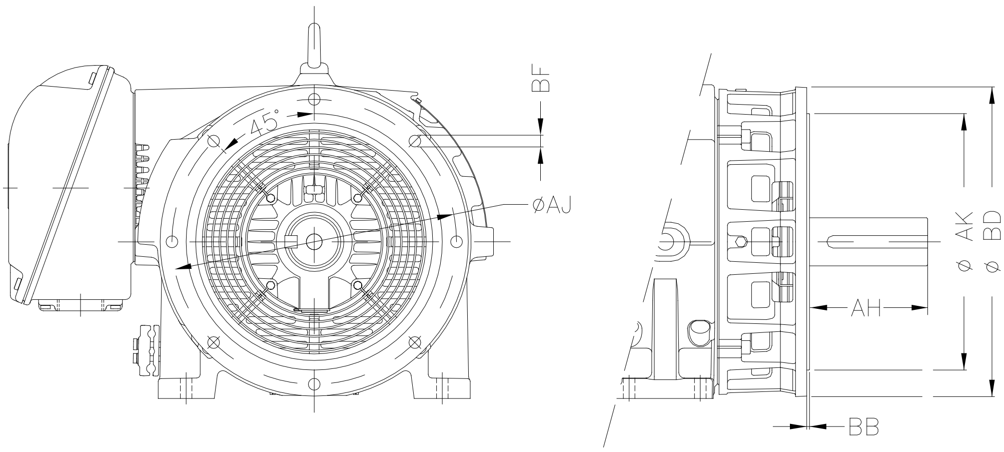
<tr><td>447/9TS</td><td rowspan="2">FC-355</td><td rowspan="2">0.787</td><td rowspan="2">14.000</td><td rowspan="2">16.000</td><td rowspan="2">17.913</td><td rowspan="2">UNC 5/8"x11</td><td rowspan="2">0.250</td><td>4.500</td><td rowspan="2">45°</td><td rowspan="2">8</td></tr>
<tr><td>447/9T</td><td>8.250</td></tr>
</table>

FD Flange



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<tr><th>Frame</th><th>Flange</th><th>AJ</th><th>AK</th><th>BD</th><th>BF</th><th>BB</th><th>AH</th><th>α</th><th>Nº of holes</th></tr>
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<tr><td>447/9T</td><td>8.250</td></tr>
<tr><td>5010/11TS</td><td rowspan="4">FD-558</td><td rowspan="4">22.000</td><td rowspan="4">24.000</td><td rowspan="8">0.250</td><td rowspan="6">11.375</td></tr>
<tr><td>5010/11T</td></tr>
<tr><td>L5010/11TS</td></tr>
<tr><td>L5010/11T</td></tr>
<tr><td>L5810/11TS</td><td rowspan="2">FD-762</td><td rowspan="2">30.000</td><td rowspan="2">28.000</td><td rowspan="2">32.008</td></tr>
<tr><td>L5810/11T</td></tr>
<tr><td>L6808/09TS</td><td rowspan="2">FD-895</td><td rowspan="2">35.250</td><td rowspan="2">33.250</td><td rowspan="2">37.250</td><td rowspan="2">1.000</td><td>6.500</td></tr>
<tr><td>L6808/09T</td><td>11.375</td></tr>
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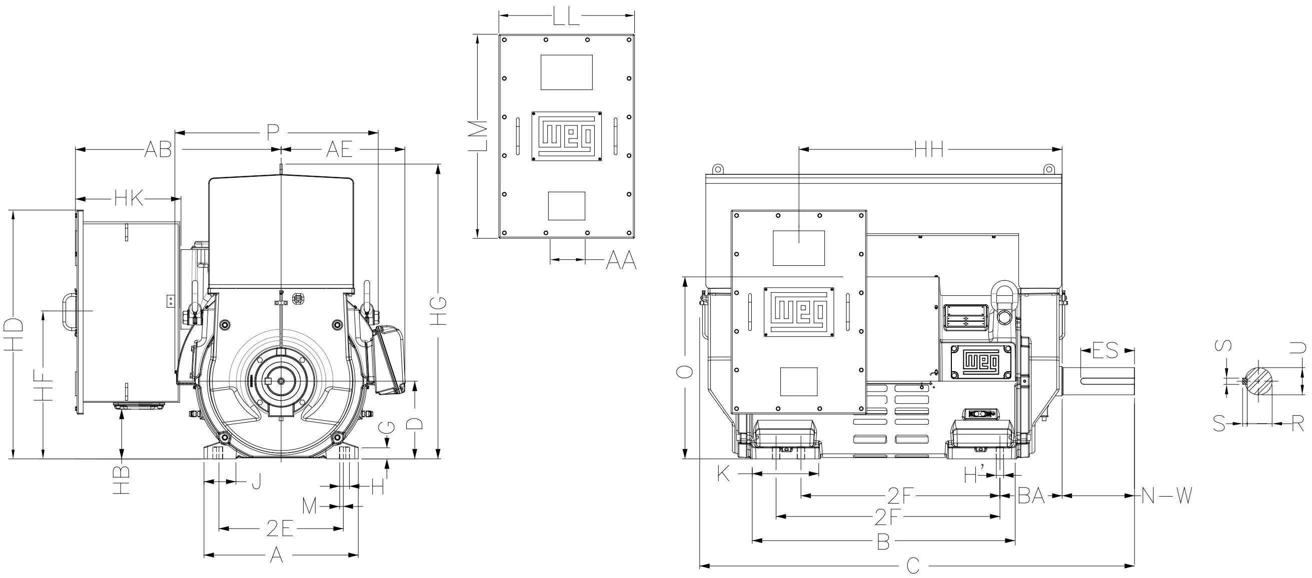
NEMA Mechanical Data (Dimension in Inches)

WPI Frames 5010/11 to L5810/11 - Low Voltage



Frame	2E	J	A	AB	P	2F	K	B	BA	U	d1	N-W	ES	S	R
L5010/11	20.000	5.140	24.803	34.908	34.095	32.000/36.000	11.165	42.736	10.000	3.250 [1]	DUNC 3/4"-10 [1]	5.750 [1]	4.331 [1]	0.750 [1]	2.831 [1]
										4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11	23.000	6.710	29.530	34.908	39.976	36.000/40.000	10.810	46.785	12.500	3.375 [1]	DUNC 7/8"-9 [1]	6.750 [1]	5.512 [1]	0.875 [1]	2.880 [1]
										5.125	DUNC 1 1/4"-7	11.625	9.842	1.250	4.423

Frame	D	G	O	LL	LM	M	HB	HD	HF	HG	HI	HH	HK	H	H'	C	AA	Bearings	
																		DE	NDE
L5010/11	12.500	1.873	29.527	21.850	32.874	0.591	5.510	38.384 [2]	21.142	52.130	63.746	42.322	18.805	1.181	1.575	64.037 [1]	2xNPT 4"	6218 C3 [1]	6218 C3 [1]
																69.912		6224 C3	6218 C3
L5810/11	14.500	1.873	34.460	21.850	32.874	0.591	9.085	41.959 [2]	24.717	56.860	71.102	48.326	18.805	1.181	1.968	72.537 [1]	2xNPT 4"	6220 C3 [1]	6220 C3 [1]
																77.412		6228 C3	6220 C3

WPI Frames L5010/11 to L6808/09 - High Voltage

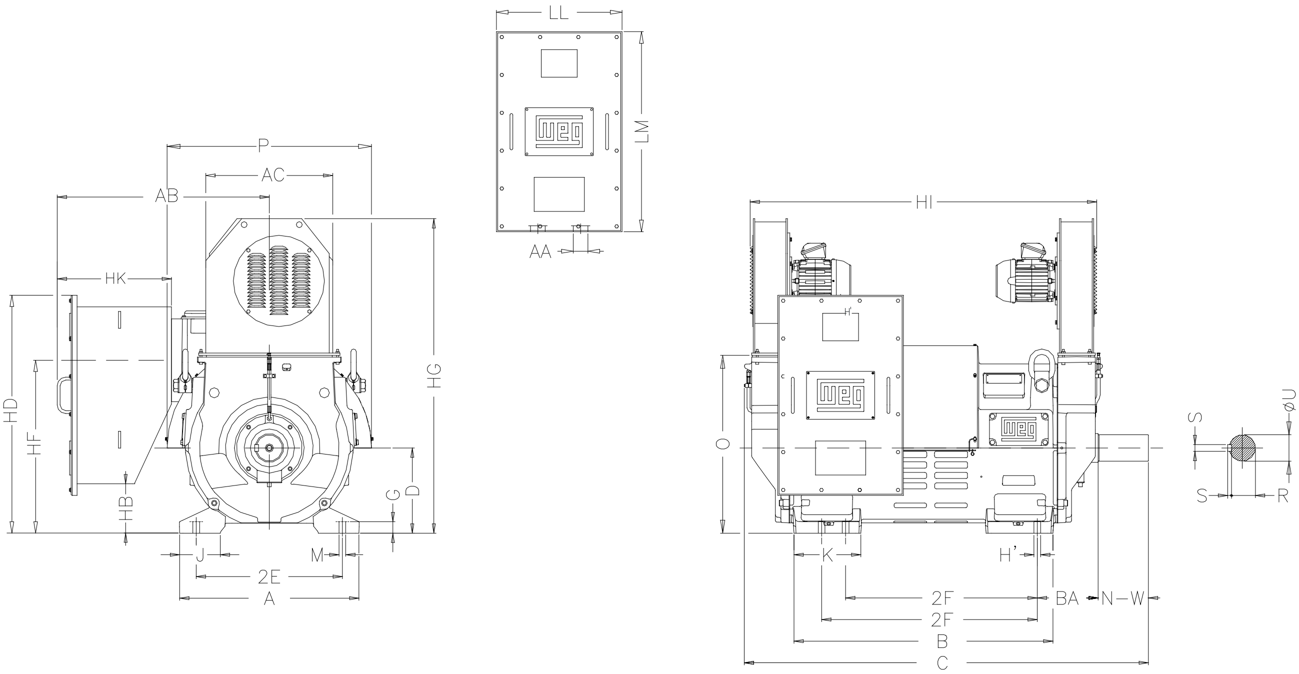
Frame	2E	J	A	AB	AE	P	2F	K	B	BA	U	d1	N-W	ES	S	R
L5010/11	20.000	5.140	24.803	34.907	19.900	34.095	32.000/36.000	11.165	42.736	10.000	3.250 [1]	DUNC 3/4"-10 [1]	5.750 [1]	4.331 [1]	0.750 [1]	2.831 [1]
											4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11	23.000	6.726	29.528	34.907	21.864	39.976	36.000/40.000	10.810	47.785	12.500	3.375 [1]	DUNC 7/8"-9 [1]	6.750 [1]	5.512 [1]	0.875 [1]	2.880 [1]
											5.125	DUNC 1 1/4"-7	11.625	9.842	1.250	4.423
L6808/09	27.000	7.470	33.071	39.041	24.620	48.800	36.000/40.000	10.810	46.760	12.500	3.750 [1]	DUNC 7/8"-9 [1]	6.750 [1]	5.512 [1]	0.875 [1]	3.261 [1]
											5.125	DUNC 1 1/4"-7	11.625	9.842	1.250	4.423

Frame	D	G	O	LL	LM	M	HB	HD	HF	HG	HH	HK	H	H'	C	AA	Bearings	
																	DE	NDE
L5010/11	12.500	1.873	29.527	21.850	32.874	0.591	5.510	38.384	21.142	47.436	42.322	18.805	1.181	1.575	64.037 [1]	NPT 4"	6218 C3 [1]	6218 C3 [1]
															69.912		6224 C3	6218 C3
L5810/11	14.500	1.873	34.460	21.850	32.874	0.591	9.085	41.959	24.717	51.482	48.326	18.805	1.181	1.968	72.537 [1]	NPT 4"	6220 C3 [1]	6220 C3 [1]
															77.412		6228 C3	6220 C3
L6808/09	17.000	1.973	39.524	21.850	32.874	0.709	14.695	47.569	30.327	57.214	48.720	18.805	1.417	2.205	72.537 [1]	NPT 4"	6220 C3 [1]	6220 C3 [1]
															77.412		6228 C3	6220 C3

Note: 1) Dimension applicable to 2 pole motors.

DPFV Frames 5010/11 to L5810/11 - Low Voltage

For cases where an independent cooling system is required, the W40 motors can be supplied with a forced ventilation kit, as shown below.



Frame	2E	J	A	AB	AC	P	2F	K	B	BA	U	d1	N-W	ES	S	R
5010/11	20.000	5.236	24.724	34.908	22.047	34.095	32.000/36.000	14.370	40.472	8.500	2.625 1)	DUNC 3/4"-10 1)	4.750 1)	3.000 1)	0.750 1)	2.831 1)
											3.900	DUNC 1"-8	10.625	9.055	1.000	3.817
L5010/11	20.000	5.140	24.803	34.908	20.866	34.095	32.000/36.000	11.165	42.736	10.000	3.250 1)	DUNC 3/4"-10 1)	5.750 1)	4.331 1)	0.750 1)	2.831 1)
											4.375	DUNC 1"-8	11.625	8.661	1.000	3.817
L5810/11	23.000	6.710	29.530	34.908	31.102	39.976	36.000/40.000	10.810	46.785	12.500	3.375 1)	DUNC 7/8"-9 1)	6.750 1)	5.512 1)	0.875 1)	2.880 1)
											5.125	DUNC 1 1/4"-7	11.625	9.842	1.250	4.423

Frame	D	G	O	LL	LM	M	HB	HD	HF	HG	HI	HH	HK	H	H'	C	AA	Bearings		Motor rated power (kit) [HP]
																		DE	NDE	
5010/11	12.500	1.873	29.527	20.669	32.874	0.551	3.671	35.726 2)	21.142	46.968	59.450	39.267	18.805	1.102	1.575	64.037 1)	2xNPT 4"	6314-C3 1)	6314-C3 1)	2x0.75
																69.912		6319-C3	6314-C3	
L5010/11	12.500	1.873	29.527	20.669	32.874	0.591	5.510	37.577 2)	21.142	52.130	63.746	42.322	18.805	1.181	1.575	64.037 1)	2xNPT 4"	6218 C3 1)	6218 C3 1)	
																69.912		6224 C3	6218 C3	
L5810/11	14.500	1.873	34.460	20.669	32.874	0.591	9.085	41.162 2)	24.717	56.860	71.102	48.326	18.805	1.181	1.968	72.537 1)	2xNPT 4"	6220 C3 1)	6220 C3 1)	2x3.0
																77.412		6228 C3	6220 C3	

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