

Product SPECIFICATION SHEET

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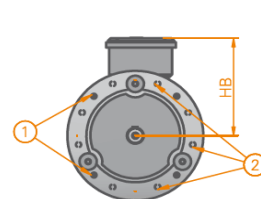
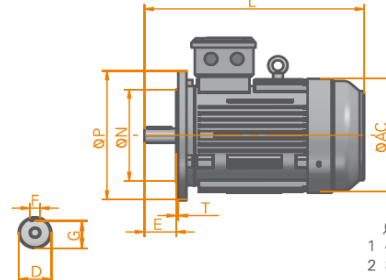
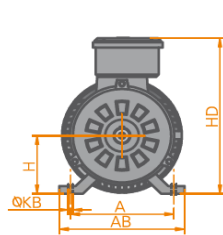
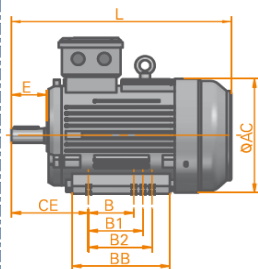
NV3 Series

IP55



Features

- Low voltage TEFC frame cast iron motors
- Standard efficiency to IEC 60034-30 (IE1)
- 0.37kW up to 385kW
- Class F insulation
- 2, 4 and 6 pole motors
- 400VAC / 525VAC
- S1 Duty cycle
- Max operating altitude 1000m.a.s.l.
- B3 Foot mount & B35 Foot and Flange mount available



ØS Holes on M PCD
1 4Holes up to frame size 200
2 8Holes from frame size 225 - 315

Frame	Pole	A	AB	AC	B	B1	B2	BB	CE	D	E	F	G	H	HB	HD	KB	L	M	N	P	S	T
71	2-8	112	144	136	90	—	—	120	75	14	30	5	11	71	135	206	7	265	130	110	160	10	3.5
80	2-8	125	160	175	100	—	—	130	90	19	40	6	15.5	80	150	230	10	295	165	130	200	12	3.5
90S	2-8	140	180	190	100	—	—	135	106	24	50	8	20	90	165	260	10	320	165	130	200	12	3.5
90L	2-8	140	180	190	100	125	—	160	106	24	50	8	20	90	165	260	10	345	165	130	200	12	3.5
100L	2-8	160	200	215	140	—	—	182	123	28	60	8	24	100	170	275	12	385	215	180	250	14.5	4
112M	2-8	190	230	236	140	—	—	195	130	28	60	8	24	112	195	310	12	410	215	180	250	14.5	4
132S	2-8	216	265	275	140	—	—	205	169	38	80	10	33	132	215	350	12	480	265	230	300	14.5	4
132M	4-8	216	265	275	140	178	—	245	169	38	80	10	33	132	215	350	12	520	265	230	300	14.5	4
160M	2-8	254	320	330	210	—	—	260	218	42	110	12	37	160	265	425	14.5	610	300	250	350	18.5	5
160L	2-8	254	320	330	210	254	—	305	218	42	110	12	37	160	265	425	14.5	655	300	250	350	18.5	5
180M	2-4	279	350	380	241	—	—	285	231	48	110	14	42.5	180	280	440	14.5	680	300	250	350	18.5	5
180L	4-8	279	350	380	241	279	—	325	231	48	110	14	42.5	180	280	440	14.5	720	300	250	350	18.5	5
200L	2-8	318	390	420	—	305	—	355	243	55	110	16	49	200	315	505	18.5	760	350	300	400	18.5	5
225S	4-8	356	435	465	286	—	—	350	289	60	140	18	53	225	335	550	18.5	825	400	350	450	18.5	5
225M	2	356	435	465	286	311	—	375	259	55	110	16	49	225	335	550	18.5	820	400	350	450	18.5	5
225M	4-8	356	435	465	286	311	—	375	289	60	140	18	53	225	335	550	18.5	850	400	350	450	18.5	5
250S/M	2	406	485	520	311	349	—	450	308	60	140	18	53	250	375	635	24	925	500	450	550	18.5	5
250S/M	4-8	406	485	520	311	349	—	450	308	70	140	20	62.5	250	375	635	24	925	500	450	550	18.5	5
280S/M	2	457	550	570	368	419	—	490	330	65	140	18	58	280	405	695	24	1035	500	450	550	18.5	5

NV3 Standard Specification Range (IE 1) - Performance Data 2 Pole Motors Standard Efficiency (IE 1) - IEC 60034 - 30

Output kW	Frame Size	Type NV3	Speed r/min	Pole	Current at 400 V	Current at 525 V	FLT Nm	Efficiency (%) 4/4	Efficiency (%) 3/4	Power Factor 4/4	Power Factor 3/4	D.O.L Starting pu Torque	BDT p.u.	Rotor Inertia kg.m²	Motor Mass kg
0.75	80	080	2840	2	1.73	1.32	2.5	75.2	75.5	0.83	0.77	2.2	6.1	2.3	0.00091
1.1	80	083	2840	2	2.46	1.88	3.7	76.8	76.9	0.84	0.78	2.2	6.9	2.3	0.0011
1.5	90S	090	2850	2	3.23	2.46	5.0	79.7	80.0	0.84	0.78	2.2	7.0	2.3	0.0014
2.2	90L	093	2850	2	4.56	3.48	7.4	81.9	82.0	0.85	0.79	2.2	7.0	2.3	0.0016
3	100L	101	2880	2	5.94	4.53	9.9	83.8	81.9	0.87	0.81	2.2	7.5	2.3	0.0040
4	112M	112	2880	2	7.78	5.93	13.3	84.3	84.4	0.88	0.82	2.2	7.5	2.3	0.0067
5.5	132S	130	2900	2	10.5	7.98	18.1	86.1	86.2	0.88	0.82	2.2	7.5	2.3	0.0124
7.5	132S	131	2900	2	14.2	10.8	24.7	86.5	86.3	0.88	0.82	2.2	7.5	2.3	0.0149
9.2	132M	135	2900	2	17.3	13.2	30.3	87.2	86.6	0.88	0.82	2.2	7.5	2.3	0.0176
11	160M	163	2930	2	20.0	15.3	35.8	89.1	88.6	0.89	0.83	2.2	7.5	2.3	0.0436
15	160M	164	2930	2	27.2	20.7	48.9	89.5	89.5	0.89	0.83	2.2	7.5	2.3	0.0551
18.5	160L	166	2930	2	33.0	25.1	60.3	89.9	90.0	0.90	0.84	2.2	7.5	2.3	0.0655
22	180M	183	2940	2	39.0	29.7	71.4	90.5	89.1	0.90	0.84	2.0	7.5	2.3	0.0881
30	200L	206	2950	2	52.6	40.1	97	91.4	91.4	0.90	0.84	2.0	7.5	2.3	0.14821
37	200L	207	2950	2	64.2	48.9	120	92.4	92.0	0.90	0.84	2.0	7.5	2.3	0.16822
45	225M	223	2970	2	77.9	59.4	145	92.6	92.5	0.90	0.84	2.0	7.5	2.3	0.29345
55	250S	253	2970	2	94.8	72.3	177	93.0	93.0	0.90	0.84	2.0	7.5	2.3	0.3784
75	250M	255	2970	2	129	98.0	241	93.5	93.5	0.90	0.84	2.0	7.0	2.3	0.587
90	280S	283	2970	2	154	117	289	93.8	93.6	0.90	0.85	2.0	7.1	2.2	0.615
110	280M	285	2970	2	185	141	354	94.2	94.3	0.91	0.85	1.8	7.1	2.2	1.4083
132	315S	310	2980	2	220	169	423	94.4	94.3	0.91	0.85	1.8	7.1	2.2	1.5584
160	315M	311	2980	2	270	205	513	94.7	94.4	0.91	0.85	1.8	7.1	2.2	1.7256
185.3	315L	312	2980	2	310	235	593	94.9	94.5	0.91	0.86	1.8	7.1	2.2	1.8012
200	315L	313	2980	2	330	250	641	94.9	94.9	0.92	0.86	1.8	7.1	2.2	1.9405

Locked Rotor Ratios - Pu Value
Power Factor - Power Factor under different conditions
Output - Rated Output (kW)
Speed - Motor Rated speed (r/min)
Frame - IEC Frame Size

FLT - Full Load torque (Nm)
BDT - Break Down Torque
LRT - Locked Rotor Time (seconds)
Type - Range Type
Efficiency - Efficiency under different conditions

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NV3 Series

IP55

NV3 Standard Specification Range (IE 1) - Performance Data 4 Pole Motors Standard Efficiency (IE 1) - IEC 60034 - 30

Output kW	Frame Size	Type NV3	Speed r/min	Pole	Current at 400 V	Current at 525 V	FLT Nm	Efficiency (%) 4/4	Efficiency (%) 3/4	Power Factor 4/4	Power Factor 3/4	D.O.L Starting pu Torque	D.O.L Current	BDT p.u.	Rotor Inertia kg.m ²	Motor Mass kg
0.37	71	70	1375	4	1.11	0.84	2.5	670	68.0	0.72	0.69	2.2	4.5	2.3	0.0020	15
0.55	80	080	1390	4	1.45	1.10	3.8	73.0	73.0	0.75	0.71	2.4	5.2	2.3	0.0028	17
0.75	80	083	1390	4	1.95	1.48	5.1	73.2	73.7	0.76	0.71	2.3	6.0	2.3	0.0036	18
1.1	90S	090	1400	4	2.70	2.06	7.5	76.3	76.8	0.77	0.72	2.3	6.0	2.3	0.0044	20
1.5	90L	093	1400	4	3.51	2.68	10.1	79.0	79.8	0.78	0.73	2.3	6.0	2.3	0.0056	23
2.2	100L	101	1420	4	4.90	3.73	14.8	80.0	82.4	0.81	0.76	2.3	7.0	2.3	0.0109	30
3	100L	102	1420	4	6.39	4.87	19.9	82.6	82.3	0.82	0.77	2.3	7.0	2.3	0.0144	35
4	112M	112	1440	4	8.3	6.31	26.5	85.0	85.0	0.82	0.78	2.3	7.0	2.3	0.0171	40
5.5	132S	130	1440	4	11.1	8.5	36.5	86.2	86.3	0.83	0.79	2.3	7.0	2.3	0.0385	60
7.5	132M	133	1440	4	15.0	11.4	49.0	86.2	86.3	0.84	0.80	2.3	7.0	2.3	0.0514	70
9.2	132M	135	1440	4	18.1	13.8	62.8	87.2	87.3	0.84	0.80	2.3	7.0	2.3	0.0607	85
11	160M	163	1460	4	21.4	16.3	71.9	88.2	88.3	0.84	0.80	2.2	7.0	2.3	0.1076	110
15	160L	166	1460	4	28.5	21.7	97	89.4	89.6	0.85	0.81	2.2	7.5	2.3	0.1390	130
18.5	180M	183	1470	4	34.2	26.1	120	90.8	90.9	0.86	0.82	2.2	7.5	2.3	0.1913	165
22	180L	186	1470	4	40.6	30.9	143	90.9	91.0	0.86	0.82	2.2	7.5	2.3	0.2192	180
30	200L	207	1470	4	54.8	41.7	193	91.9	92.0	0.86	0.85	2.2	7.2	2.3	0.3187	240
37	225S	220	1480	4	66.5	50.7	239	92.3	92.4	0.87	0.86	2.2	7.2	2.3	0.6463	280
45	225M	223	1480	4	80.5	61.3	290	92.8	92.9	0.87	0.86	2.2	7.2	2.3	0.7547	310
55	250S	253	1480	4	98	75	355	92.9	92.7	0.87	0.86	2.2	7.2	2.3	0.9344	400
75	250M	255	1480	4	133	101	484	93.6	93.8	0.87	0.87	2.2	6.8	2.2	1.7867	540
90	280S	283	1480	4	157	120	580	94.0	94.0	0.88	0.87	2.2	6.8	2.2	2.1229	620
110	280M	285	1480	4	192	146	709	94.0	94.2	0.88	0.87	2.1	6.9	2.2	3.8188	870
132	315S	310	1480	4	230	174	851	94.8	94.7	0.88	0.87	2.1	6.9	2.2	3.8306	990
160	315M	311	1480	4	275	210	1032	95.0	95.0	0.88	0.88	2.1	6.9	2.2	4.6727	1050
185	315L	312	1480	4	315	240	1193	95.0	95.0	0.89	0.88	2.1	6.9	2.2	5.0561	1150
200	315L	313	1480	4	340	260	1290	95.0	95.0	0.89	0.88	2.1	6.9	2.2	5.3463	1250

NV3 Standard Specification Range (IE 1) - Performance Data 6 Pole Motors Standard Efficiency (IE 1) - IEC 60034 - 30

Output kW	Frame Size	Type NV3	Speed r/min	Pole	Current at 400 V	Current at 525 V	FLT Nm	Efficiency (%) 4/4	Efficiency (%) 3/4	Power Factor 4/4	Power Factor 3/4	D.O.L Starting pu Torque	D.O.L Current	BDT p.u.	Rotor Inertia kg.m ²	Motor Mass kg
0.37	80	080	890	6	1.19	0.91	4.0	64.0	64.0	0.70	0.66	1.9	4.7	2.0	0.0042	15
0.55	80	083	890	6	1.69	1.29	5.9	65.2	65.7	0.72	0.68	1.9	4.7	2.1	0.0051	17
0.75	90S	090	910	6	2.18	1.66	7.9	69.1	69.6	0.72	0.68	2.0	4.7	2.1	0.0057	20
1.1	90L	093	910	6	3.01	2.30	11.5	72.2	72.7	0.73	0.69	2.0	5.3	2.1	0.0072	23
1.5	100L	102	920	6	3.79	2.89	15.6	76.2	76.7	0.75	0.71	2.0	5.5	2.1	0.0144	30
2.2	112M	112	940	6	5.32	4.06	22.3	78.5	78.9	0.76	0.71	2.0	5.5	2.1	0.0229	38
3	132S	130	960	6	7.10	5.41	29.8	80.3	80.2	0.76	0.72	2.1	6.5	2.1	0.0390	55
4.1	132M	133	960	6	9.01	6.87	39.8	84.3	84.8	0.76	0.72	2.1	6.5	2.1	0.0499	63
5.5	132M	134	960	6	12.2	9.27	54.7	84.7	84.9	0.77	0.73	2.1	6.5	2.1	0.0714	70
7.5	160M	163	970	6	16.3	12.5	73.8	86.0	86.1	0.77	0.73	2.0	6.5	2.1	0.1248	105
11	160L	166	970	6	23.3	17.8	108	87.3	87.7	0.78	0.74	2.0	6.5	2.1	0.1800	120
15	180L	186	970	6	30.1	23.0	148	88.7	88.9	0.81	0.77	2.0	7.0	2.1	0.3415	175
18.5	200L	206	970	6	37.0	28.2	182	89.2	89.6	0.81	0.77	2.1	7.0	2.1	0.4894	220
22	200L	207	970	6	42.3	32.2	216	90.5	90.5	0.83	0.81	2.0	7.0	2.1	0.552	235
30	225M	223	980	6	56.3	42.9	292	91.6	91.8	0.84	0.81	2.0	7.0	2.1	0.7063	300
37	250S	253	980	6	68.5	52.2	360	91.7	91.8	0.85	0.83	2.1	7.0	2.0	1.1189	370
45	250M	255	980	6	82.0	62.5	438	92.1	92.2	0.86	0.83	2.1	7.0	2.0	2.1645	480
55	280S	283	980	6	99.3	75.6	536	93.0	92.6	0.86	0.83	2.1	7.0	2.0	2.6692	535
75	280M	285	980	6	135	103	731	93.0	93.5	0.86	0.83	2.0	6.7	2.0	4.11	790
90	315S	310	990	6	161	123	868	93.7	93.8	0.86	0.83	2.0	6.7	2.0	4.8746	880
110	315M	311	990	6	196	150	1061	94.0	94.0	0.86	0.83	2.0	6.7	2.0	5.9125	997
132	315L	312	990	6	235	179	1273	94.3	94.3	0.86	0.84	2.0	6.7	2.0	6.9504	1100
160	315L	313	990	6	280	215	1543	94.3	94.4	0.87	0.85	1.9	6.7	2.0	9.9993	1400

Locked Rotor Ratios -
Power Factor -
Output -
Speed -
Frame -

Pu Value
Power Factor under different conditions
Rated Output (kW)
Motor Rated speed (r/min)
IEC Frame Size

FLT -
BDT -
LRT -
Type -
Efficiency -

Full Load torque (Nm)
Break Down Torque
Locked Rotor Time (seconds)
Range Type
Efficiency under different conditions

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