



## ***KDE SERIES***

**DC Brushless Fan & Blower**

# **Traditional Motor Series**

# SUNON Traditional System Motor Series



## DC Brushless Fan

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H <sub>2</sub> O	dBA
17x17x8	KDE0517PDB1-8 (2).V	○	5 VDC	1.0	20000	1.1	0.26	29
	KDE0517PDB2-8 (2).V	○	5 VDC	0.6	15000	0.8	0.20	27
	KDE0517PDB3-8 (2).V	○	5 VDC	0.4	11000	0.6	0.10	25
20x20x8	KDE0501PDB1-8 (2).V	○	5 VDC	1.0	15000	1.9	0.26	29
	KDE0501PDB2-8 (2).V	○	5 VDC	0.6	12000	1.6	0.15	26.5
	KDE0501PDB3-8 (2).V	○	5 VDC	0.4	9000	1.2	0.11	21
20x20x10	KDE0501PFB1-8 (2).N.V	○	5 VDC	0.9	15000	2.2	0.26	26
	KDE0501PFB2-8 (2).N.V	○	5 VDC	0.6	10000	1.45	0.15	22
	KDE0501PFB3-8 (2).N.V	○	5 VDC	0.4	7300	0.86	0.07	20
25x25x6	KDE0502PEB1-8 OC	○	5 VDC	0.5	11500	3.35	0.18	27
	KDE0502PEB1-8 LV	○	5 VDC	0.4	13000	1.6	0.15	29
	KDE0502PEB2-8 LV	○	5 VDC	0.3	10000	1.2	0.10	26.5
	KDE0502PEB3-8 LV	○	5 VDC	0.2	7000	0.8	0.04	19
25x25x10	KDE0502PFB1-8 V	○	5 VDC	0.9	11500	3.15	0.20	25.4
	KDE0502PFB2-8 V	○	5 VDC	0.6	9500	2.53	0.16	24
	KDE0502PFB3-8 V	○	5 VDC	0.3	6500	1.83	0.09	23
	KDE0502AFB1-8 V	○	5 VDC	0.9	11500	3.15	0.20	26.9
	KDE0502AFB2-8 V	○	5 VDC	0.6	9500	2.53	0.16	25.5
	KDE0502AFB3-8 V	○	5 VDC	0.3	6500	1.83	0.09	24.5
	KDE0502PFB1-8 OC	○	5 VDC	0.9	13000	3.5	0.25	27
	KDE0502PFB2-8 OC	○	5 VDC	0.6	10000	3.0	0.18	25
	KDE0502PFB3-8 OC	○	5 VDC	0.35	7500	2.3	0.11	24
	KDE1202PFB1-8	○	12VDC	1.0	13000	2.4	0.20	33
	KDE1202PFB2-8	○	12VDC	0.7	10000	2.0	0.16	30
	KDE1202PFB3-8	○	12VDC	0.5	7000	1.3	0.09	26
25x25x15	KDE0502PHB1-8	○	5 VDC	0.8	12000	3.7	0.28	29
	KDE0502PHB2-8	○	5 VDC	0.6	10000	3.1	0.16	22
	KDE0502PHB3-8	○	5 VDC	0.3	7000	2.2	0.11	16
30x30x6	KDE0503PEBX-8 OC	○	5 VDC	0.9	9000	5.3	0.14	29
	KDE0503PEB1-8 OC	○	5 VDC	0.55	7500	4.6	0.11	26
	KDE0503PEB1-8 LV	○	5 VDC	0.5	9500	3.0	0.15	31
	KDE0503PEB2-8 LV	○	5 VDC	0.35	7500	2.4	0.08	26
	KDE0503PEB3-8 LV	○	5 VDC	0.3	5500	1.9	0.065	20
30x28x10	KDE0528AFB1-8	○	5 VDC	0.9	11000	2.4	0.13	32
	KDE0528AFB2-8	○	5 VDC	0.6	9000	1.8	0.10	30
	KDE0528AFB3-8	○	5 VDC	0.3	6500	1.5	0.08	27
30x30x10	KDE0503PFB1-8 OC	○	5 VDC	1.0	9500	5.5	0.15	25
	KDE0503PFB2-8 OC	○	5 VDC	0.65	8000	4.6	0.11	22.5
	KDE0503PFB3-8 OC	○	5 VDC	0.35	5500	3.6	0.07	20
	KDE0503PFB1-8 V	○	5 VDC	0.9	8000	5.1	0.14	22.5
	KDE0503PFB2-8 V	○	5 VDC	0.6	7000	4.2	0.11	20.5
	KDE0503PFB3-8 V	○	5 VDC	0.3	5000	3.15	0.06	18.5
	KDE1203PFB1-8	○	12VDC	0.9	9500	3.5	0.14	27
	KDE1203PFB2-8	○	12VDC	0.8	8000	3.0	0.11	25
	KDE1203PFB3-8	○	12VDC	0.6	5500	2.3	0.07	18.5
30x30x15	KDE0503PHB1-8	○	5 VDC	0.9	8500	6.0	0.16	27
	KDE0503PHB2-8	○	5 VDC	0.6	7000	4.8	0.11	22
	KDE0503PHB3-8	○	5 VDC	0.35	5500	3.2	0.10	17
35x35x10	KDE0535PFB1-8 OC	○	5 VDC	1.0	7500	6.5	0.12	25.5
	KDE0535PFB2-8 OC	○	5 VDC	0.7	6000	5.2	0.08	21
	KDE0535PFB3-8 OC	○	5 VDC	0.35	4500	3.8	0.05	18
	KDE0535PFB1-8	○	5 VDC	1.0	7000	5.2	0.09	25
	KDE0535PFB2-8	○	5 VDC	0.7	6000	4.5	0.08	21
	KDE0535PFB3-8	○	5 VDC	0.4	4500	3.2	0.05	18
	KDE1235PFB1-8	○	12VDC	1.0	7000	5.2	0.09	25
	KDE1235PFB2-8	○	12VDC	0.8	6500	4.5	0.08	21
	KDE1235PFB3-8	○	12VDC	0.6	4500	3.2	0.05	18
40x40x6	KDE0504PEB1-8 LV	○	5 VDC	0.55	6000	5.5	0.08	26
	KDE0504PEB2-8 LV	○	5 VDC	0.4	5000	4.35	0.05	23
	KDE0504PEB3-8 LV	○	5 VDC	0.3	4000	3.5	0.04	20
40x40x10	KDE1204PFS1 H	⊙	12VDC	1.4	7400	7.3	0.17	30.3
	KDE1204PFS2 H	⊙	12VDC	1.1	5500	4.9	0.11	25
	KDE1204PFS3 H	⊙	12VDC	0.7	4200	4.2	0.08	22
	KDE1204PFB1 H	○	12VDC	1.4	8400	8.3	0.19	34.4
	KDE1204PFB2 H	○	12VDC	1.1	6600	6.5	0.15	27
	KDE1204PFB3 H	○	12VDC	0.6	5200	4.7	0.10	24

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H <sub>2</sub> O	dBA	
40x40x20	KDE0504PKS2	⊙	5 VDC	1.0	6000	6.5	0.12	25.5	
	KDE0504PKS3	⊙	5 VDC	0.7	4500	5.2	0.08	22.8	
	KDE0504PKB2	⊙	5 VDC	1.0	6500	7.0	0.16	29	
	KDE0504PKB3	○	5 VDC	0.7	5300	6.2	0.12	24	
	KDE1204PKS1 H	⊙	12VDC	1.2	7200	8.9	0.21	25.5	
	KDE1204PKS2 H	⊙	12VDC	0.8	6200	7.7	0.16	21	
	KDE1204PKS3 H	⊙	12VDC	0.7	5200	6.3	0.11	18	
	KDE1204PKB1 H	○	12VDC	1.2	7400	9.1	0.22	27	
	KDE1204PKB2 H	○	12VDC	0.8	6500	8.0	0.17	22.5	
	KDE1204PKB3 H	○	12VDC	0.6	5400	6.5	0.12	19	
	KDE2404PKS2	⊙	12VDC	1.2	6000	6.5	0.12	25.5	
	KDE2404PKS3	⊙	12VDC	0.8	4500	5.2	0.08	22.8	
	KDE2404PKB2	○	12VDC	1.0	6500	7.0	0.16	29	
	KDE2404PKB3	○	12VDC	0.7	5000	6.0	0.11	24	
45x45x10	KDE1245PFS1 H	⊙	12VDC	1.4	6600	8.8	0.15	31.4	
	KDE1245PFS2 H	⊙	12VDC	1.2	5300	7.1	0.12	25.2	
	KDE1245PFS3 H	⊙	12VDC	0.8	3900	5.2	0.09	22	
	KDE1245PFB1 H	○	12VDC	1.4	7100	9.5	0.16	33.8	
	KDE1245PFB2 H	○	12VDC	1.1	5900	8.0	0.13	29	
	KDE1245PFB3 H	○	12VDC	0.7	4400	6.1	0.10	23	
50x50x10	KDE1205PFS1 H	⊙	12VDC	1.6	5600	10.6	0.11	32.4	
	KDE1205PFS2 H	⊙	12VDC	1.1	4500	8.5	0.09	26	
	KDE1205PFS3 H	⊙	12VDC	0.8	3700	7.0	0.07	21.4	
	KDE1205PFB1 H	○	12VDC	1.6	6000	11.4	0.12	34.7	
	KDE1205PFB2 H	○	12VDC	1.2	5000	9.5	0.10	28.9	
	KDE1205PFB3 H	○	12VDC	0.8	4200	8.0	0.08	24.3	
	KDE1205PFS1 H.G	⊙	12VDC	1.4	6500	12.5	0.19	35	
	KDE1205PFS2 H.G	⊙	12VDC	1.0	5500	10.6	0.15	30	
	KDE1205PFS3 H.G	⊙	12VDC	0.7	4500	8.5	0.10	25	
	KDE1205PFB1 H.G	○	12VDC	1.4	6500	12.5	0.19	36	
	KDE1205PFB2 H.G	○	12VDC	1.0	5500	10.6	0.15	31.5	
	KDE1205PFB3 H.G	○	12VDC	0.7	4500	8.5	0.10	26	
	50x50x15	KDE1205PHS1 H	⊙	12VDC	1.5	5800	17.0	0.23	33
		KDE1205PHS2 H	⊙	12VDC	1.0	4700	13.0	0.17	29
KDE1205PHS3 H		⊙	12VDC	0.7	3700	10.2	0.12	22	
KDE1205PHB1 H		○	12VDC	1.5	5800	17.0	0.23	34	
KDE1205PHB2 H		○	12VDC	1.0	4700	13.0	0.17	29.5	
KDE1205PHB3 H		○	12VDC	0.7	3700	10.2	0.12	22.5	
52x52x15	KDE0505PHS2	⊙	5 VDC	1.9	5000	12.4	0.14	27	
	KDE0505PHS3	⊙	5 VDC	1.2	4000	7.6	0.12	24	
	KDE0505PHB2	○	5 VDC	1.9	5300	12.7	0.16	27.8	
	KDE0505PHB3	○	5 VDC	1.2	4300	8.5	0.14	25.4	
	KDE1205PHS2	⊙	12VDC	1.7	5000	12.4	0.14	27	
	KDE1205PHS3	⊙	12VDC	0.9	4000	7.6	0.12	24	
	KDE1205PHB2	○	12VDC	1.7	5300	12.7	0.16	27.8	
	KDE1205PHB3	○	12VDC	0.9	4300	8.5	0.14	25.4	
55x55x10	KDE1255PFS1 H.G	⊙	12VDC	1.4	5700	15.0	0.16	36	
	KDE1255PFS2 H.G	⊙	12VDC	1.0	4700	13.0	0.12	30	
	KDE1255PFS3 H.G	⊙	12VDC	0.7	4000	10.2	0.08	26	
	KDE1255PFB1 H.G	○	12VDC	1.4	5700	15.0	0.16	36.5	
	KDE1255PFB2 H.G	○	12VDC	1.0	4700	13.0	0.12	30.5	
	KDE1255PFB3 H.G	○	12VDC	0.7	4000	10.2	0.08	27	
60x60x10	KDE1206PFS1 H.G	⊙	12VDC	1.4	5200	16.5	0.17	35	
	KDE1206PFS2 H.G	⊙	12VDC	1.0	4300	14.0	0.12	34.5	
	KDE1206PFS3 H.G	⊙	12VDC	0.8	3600	11.3	0.07	28.5	
	KDE1206PFB1 H.G	○	12VDC	1.4	5200	16.5	0.17	36	
	KDE1206PFB2 H.G	○	12VDC	1.0	4300	14.0	0.12	35	
	KDE1206PFB3 H.G	○	12VDC	0.8	3600	11.3	0.07	29	
	60x60x15	KDE1206PHS1 H	⊙	12VDC	1.8	4300	21.0	0.18	36
KDE1206PHS2 H		⊙	12VDC	1.1	3800	18.0	0.14	31	
KDE1206PHS3 H		⊙	12VDC	0.7	3000	15.0	0.12	25	
KDE1206PHB1 H		○	12VDC	1.8	4300	21.0	0.18	37.5	
KDE1206PHB2 H		○	12VDC	1.1	3800	18.0	0.14	31.5	
KDE1206PHB3 H		○	12VDC	0.7	3000	15.0	0.12	26	
60x60x20	KDE1206PKS1 H	⊙	12VDC	1.8	4300	22.0	0.17	32	
	KDE1206PKS2 H	⊙	12VDC	1.1	3600	18.5	0.14	27.5	
	KDE1206PKS3 H	⊙	12VDC	0.8	3200	15.0	0.10	25	
	KDE1206PKB1 H	○	12VDC	1.8	4300	22.0	0.17	32.5	
	KDE1206PKB2 H	○	12VDC	1.1	3600	18.5	0.14	28	
	KDE1206PKB3 H	○	12VDC	0.8	3200	15.0	0.10	26	
60x60x25	KDE1206PTS1 H	⊙	12VDC	1.9	4300	22.5	0.20	33.5	
	KDE1206PTS2 H	⊙	12VDC	1.3	3700	18.0	0.15	29	
	KDE1206PTS3 H	⊙	12VDC	0.8	3100	16.0	0.10	25	
	KDE1206PTB1 H	○	12VDC	2.0	4300	22.5	0.20	34	
	KDE1206PTB2 H	○	12VDC	1.3	3700	18.0	0.15	30	
	KDE1206PTB3 H	○	12VDC	0.8	3100	16.0	0.10	26	

# SUNON Traditional System Motor Series

## DC Brushless Blower



Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H <sub>2</sub> O	dBA
80x80x15	KDE1208PHS1 H	⊙	12VDC	3.1	3200	34	0.16	37.5
	KDE1208PHS2 H	⊙	12VDC	2.3	2800	30	0.12	34
	KDE1208PHS3 H	⊙	12VDC	1.6	2400	25	0.10	31.5
	KDE1208PHB1 H	○	12VDC	3.1	3300	35	0.17	39.5
	KDE1208PHB2 H	○	12VDC	2.3	2900	31	0.13	36
80x80x20	KDE1208PHB3 H	○	12VDC	1.6	2500	25.5	0.10	32
	KDE1208PKS1 H	⊙	12VDC	2.2	3000	37	0.17	34.5
	KDE1208PKS2 H	⊙	12VDC	1.8	2700	33.2	0.15	31.3
	KDE1208PKS3 H	⊙	12VDC	1.3	2300	28.3	0.11	26.5
	KDE1208PKB1 (2).H	○	12VDC	2.0	3200	38.5	0.18	37.5
80x80x25	KDE1208PKB2 (2).H	○	12VDC	1.7	2900	37	0.17	35
	KDE1208PKB3 (2).H	○	12VDC	1.3	2600	31	0.14	31.5
	KDE1208PTS1 H	⊙	12VDC	2.4	2850	37.5	0.17	32.5
	KDE1208PTS2 H	⊙	12VDC	2.3	2700	36.5	0.16	30
	KDE1208PTS3 H	⊙	12VDC	1.4	2300	31.0	0.12	25
80x80x25	KDE1208PTB1 (2).H	○	12VDC	2.3	3000	39.5	0.18	33
	KDE1208PTB2 (2).H	○	12VDC	2.1	2900	39.0	0.17	32
	KDE1208PTB3 (2).H	○	12VDC	1.4	2500	33.1	0.13	28
	KDE2408PTS1-6A	⊙	24VDC	2.6	3000	41.7	0.18	34
	KDE2408PTS2-6A	⊙	24VDC	1.9	2650	34.4	0.16	30
80x80x25	KDE2408PTS3-6A	⊙	24VDC	1.5	2200	29.4	0.11	24.5
	KDE2408PTB1-6A	○	24VDC	2.6	3200	42.5	0.23	36.5
	KDE2408PTB2-6A	○	24VDC	1.9	2800	35.0	0.20	32.5
	KDE2408PTB3-6A	○	24VDC	1.5	2500	30.0	0.14	28.5
	KDE2408PTB3-6A	○	24VDC	1.7	2300	40.0	0.13	28
92x92x25	KDE1209PTS1 H	⊙	12VDC	2.6	2500	45.5	0.14	33
	KDE1209PTS2 H	⊙	12VDC	2.5	2400	44.0	0.14	32
	KDE1209PTS3 H	⊙	12VDC	1.7	2100	39.0	0.11	28
	KDE1209PTB1 (2).H	○	12VDC	2.5	2700	49.0	0.17	34.5
	KDE1209PTB2 (2).H	○	12VDC	2.4	2600	48.5	0.16	33
92x92x25	KDE1209PTB3 (2).H	○	12VDC	1.6	2300	41.0	0.12	30
	KDE2409PTS1-6A	⊙	24VDC	3.4	2800	50.0	0.17	35
	KDE2409PTS2-6A	⊙	24VDC	2.2	2500	44.0	0.15	33
	KDE2409PTS3-6A	⊙	24VDC	1.7	2100	39.0	0.11	27
	KDE2409PTB1-6A	○	24VDC	3.4	3000	51.0	0.20	37
92x92x25	KDE2409PTB2-6A	○	24VDC	2.2	2600	45.0	0.18	34
	KDE2409PTB3-6A	○	24VDC	1.7	2300	40.0	0.13	28
	KDE1212PTS1-6A	⊙	12VDC	4.8	3000	88	0.27	44
	KDE1212PTS2-6A	⊙	12VDC	3.6	2700	78	0.21	40
	KDE1212PTS3-6A	⊙	12VDC	2.4	2300	67	0.16	35
120x120x25	KDE1212PTB1-6A	○	12VDC	4.8	3100	90	0.28	44.5
	KDE1212PTB2-6A	○	12VDC	3.6	2800	80	0.22	41
	KDE1212PTB3-6A	○	12VDC	2.4	2400	69	0.17	35.5
	KDE2412PTS1-6A	⊙	24VDC	5.3	3000	88	0.27	44
	KDE2412PTS2-6A	⊙	24VDC	4.1	2700	78	0.21	40
120x120x25	KDE2412PTS3-6A	⊙	24VDC	3.1	2300	67	0.16	35
	KDE2412PTB1-6A	○	24VDC	5.3	3100	90	0.28	44.5
	KDE2412PTB2-6A	○	24VDC	4.1	2800	80	0.22	41
	KDE2412PTB3-6A	○	24VDC	3.1	2400	69	0.17	35.5
	KDE1212PMSX-6A	⊙	12VDC	7.6	3100	119	0.32	45
120x120x38	KDE1212PMS1-6A	⊙	12VDC	6.8	3000	107	0.30	41
	KDE1212PMS2-6A	⊙	12VDC	5.1	2700	97	0.24	36
	KDE1212PMS3-6A	⊙	12VDC	3.2	2300	83	0.18	34
	KDE1212PMBX-6A	○	12VDC	7.6	3150	120	0.34	46.5
	KDE1212PMB1-6A	○	12VDC	6.8	3100	108	0.31	42
120x120x38	KDE1212PMB2-6A	○	12VDC	5.1	2800	98	0.25	36.5
	KDE1212PMB3-6A	○	12VDC	3.2	2400	84	0.19	35
	KDE2412PMSX-6A	⊙	24VDC	7.2	3100	119	0.32	45
	KDE2412PMS1-6A	⊙	24VDC	6.7	3000	107	0.30	41
	KDE2412PMS2-6A	⊙	24VDC	5.5	2700	97	0.24	36
120x120x38	KDE2412PMS3-6A	⊙	24VDC	4.0	2300	83	0.18	34
	KDE2412PMBX-6A	○	24VDC	7.2	3150	120	0.34	46.5
	KDE2412PMB1-6A	○	24VDC	6.7	3100	108	0.31	42
	KDE2412PMB2-6A	○	24VDC	5.5	2800	98	0.25	36.5
	KDE2412PMB3-6A	○	24VDC	4.0	2400	84	0.19	35
120x120x38	KDE4812PMS1-6A	⊙	48VDC	9.1	2900	132.5	0.29	46
	KDE4812PMS2-6A	⊙	48VDC	7.7	2700	124	0.26	43.5
	KDE4812PMS3-6A	⊙	48VDC	4.8	2300	106.5	0.19	40
	KDE4812PMB1-6A	○	48VDC	9.1	3000	136	0.30	47
	KDE4812PMB2-6A	○	48VDC	7.7	2800	127	0.28	44
120x120x38	KDE4812PMB3-6A	○	48VDC	4.8	2400	107	0.20	41

★: Bearing System: ⊙ Sleeve Bearing / ○ Ball Bearing  
\*Specifications subject to change without notice

Size(mm)	Model	★	Volt.	WATTS	RPM	CFM	Inch H <sub>2</sub> O	dBA
25x25x10	B0502PFB1-8	○	5 VDC	0.9	12000	0.9	0.36	34
	B0502PFB2-8	○	5 VDC	0.6	10000	0.7	0.23	32
	B0502PFB3-8	○	5 VDC	0.3	7000	0.45	0.20	28
	B0502AFB1-8	○	5 VDC	0.9	12000	0.9	0.36	34
	B0502AFB2-8	○	5 VDC	0.6	10000	0.7	0.23	32
30x30x10	B0502AFB3-8	○	5 VDC	0.3	7000	0.45	0.20	28
	B0503PFB1-8	○	5 VDC	0.95	9000	1.2	0.32	31
	B0503PFB2-8	○	5 VDC	0.65	7500	1.0	0.25	29
	B0503PFB3-8	○	5 VDC	0.35	5500	0.55	0.22	26
	B0503AFB1-8	○	5 VDC	0.95	9000	1.2	0.32	31
30x30x10	B0503AFB2-8	○	5 VDC	0.65	7500	1.0	0.25	29
	B0503AFB3-8	○	5 VDC	0.35	5500	0.55	0.22	26
35x35x6	B0535PEB1-8	○	5 VDC	0.7	8500	0.9	0.17	31
	B0535PEB2-8	○	5 VDC	0.45	7000	0.7	0.14	29
	B0535PEB3-8	○	5 VDC	0.3	5000	0.5	0.12	27
	B0535AEB1-8	○	5 VDC	0.7	8500	0.8	0.33	31
	B0535AEB2-8	○	5 VDC	0.45	7000	0.7	0.26	29
35x35x7	B0535AEB3-8	○	5 VDC	0.3	5000	0.5	0.22	27
	B0535ADB1-8	○	5 VDC	0.7	8500	0.9	0.17	31
	B0535ADB2-8	○	5 VDC	0.45	7000	0.7	0.14	29
	B0535ADB2-8 OC	○	5 VDC	0.6	7000	1.1	0.26	28
	B0545ADB1-8	○	5 VDC	0.75	5000	1.1	0.12	30
45x45x7	B0545ADB2-8	○	5 VDC	0.53	3800	0.8	0.08	28
	B0545ADB3-8	○	5 VDC	0.35	3000	0.65	0.07	25

★: Bearing System: ⊙ Sleeve Bearing / ○ Ball Bearing  
\*Specifications subject to change without notice

## Certification



## Safety

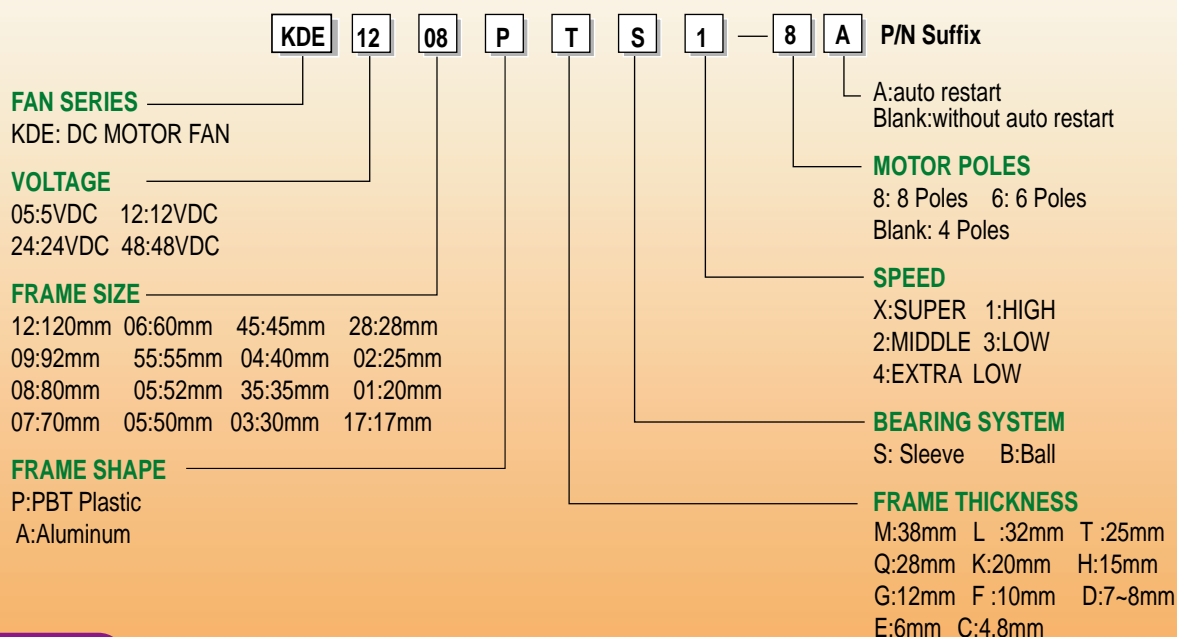


## U.S. Patent Number

4,787,863	4,987,331	5,093,599	5,245,236
5,297,929	5,492,458	5,522,700	5,584,339
5,582,506	5,666,01	1 5,690,468	5,699,854
5,734,553	5,740,017	396,276	398,393
398,392	399,946	398,977	398,978
396,276	398,393	398,392	398,977
399,946	398,978	400,665	401,686
5,873,406	408,514	5,967,763	5,959,377
5,988,995	5,997,183	418,216	6,021,043
6,050,785	6,1	14,785	6,097,120
6,109,890			6,109,892



## Model Numbering System



### P/N

P/N suffixes have the following significance

Example: KDE1205PFB1 P/N:H.G

- R : 3rd wire with rotation detector waveform  
(Only available for 8025/9225/12025/12038 Series)
- F : 3rd wire with frequency generation waveform  
(Only available for 8025/9225/12025/12038 Serie)
- (2) : two ball bearing
- H : component/process upgraded
- OC : low voltage start-up & open collector type
- LV : low voltage
- N : smaller hub
- G : big hub
- V : new blade
- TM : 3rd wire square with open collector type
- M : 3rd wire square wave signal was not amplified  
3rd wire square with open collector type (only available for P/N: H)
- BXX : special circuit design
- CXX : different dimensions, particular process or supplementary component parts

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