

# General Purpose - ODP Motors

## DP10

These motors are designed for rugged performance and long life in applications where ambient contamination from moisture, dust, dirt or grit is minimal. They are cost-effective solutions to power pumps, fans, compressors, material handling and other industrial applications.

### Performance Specifications

- 1 to 500 HP
- 1.15 service factor, 40°C ambient
- 3600, 1800, 1200 or 900 RPM
- 3-phase, 60 Hz; 208-230/460 volt operation to 100 HP (400 frame), 460 volt 100 HP (440 frame) and above; 575 volt available (440 frames only)
- Meets or exceeds EPA efficiency standards
- Class F insulation, Class B temperature rise
- NEMA design B, continuous duty
- 143T through 449T frame

### Features for Long Life:

**Frame & End Shields** – Cast iron construction for exceptional structural integrity. Lifting eyebolts are included with 180-440 frame motors.

**Rotor** – Die cast aluminum rotor bars with integrally cast end rings and cooling fins. Optimum slot design contributes to higher torque, low temperature rise and quiet operation. Each rotor is dynamically balanced for extended bearing life, and includes a high-strength carbon steel (C1045) shaft for maximum rotor performance.

**Stator/Windings** – Manufactured with premium electrical-grade steel laminations and copper electrical magnet wire to lower losses for improved efficiencies. A unique stator core design lowers flux density while increasing cooling capacity. Large conductor cross-section reduces resistance and lowers stator losses.

**Insulation** – Inverter-rated Class F non-hygroscopic insulation system with NEMA Class B temperature rise provides an extra margin of thermal life. This insulation system is suitable for operation with variable frequency drives.

**Cooling** – Type DP10 motors are designed and built with excellent ventilation and heat dissipation qualities.

**Bearings** – Oversized, lubricated for life (140-280 frames) and oversized, regreasable (320-440 frames), with inlet grease fitting and relief port plug for ease of routine maintenance. In addition, frames 320-440 are fitted with stationary bearing caps (DE only for 320 frames).

**Lubrication** – Lithium-based lubrication is used for 140-400 frame motors. Frame 440 motors use a specially formulated, high-temperature-tested, polyurea-based grease to provide more than four times the lubrication life of other polyurea greases.



**18**  
MONTH  
WARRANTY

**Oversized Conduit Box** – Larger than industry standards, diagonally-split, neoprene-gasketed to the frame and rotatable in 90° increments for quick and easy connections. Also includes a ground lug and non-wicking, clearly and permanently marked leads. Sheet steel for 140-400 frames, cast iron construction for 440 frames.

**Corrosion Resistance** – Cast iron construction, zinc-plated hardware, polyurethane finish paint and stainless steel nameplate resist rust and corrosion.

**Modifiable** – All Siemens motors are available with a variety of modifications to meet your specific motor needs.



Specifications table begins on the next page →

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Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps 460V	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
1	1800	143T	208-230/460	DP10	Ball	1LE20021AB214AA3	224	SA-70D	1.5	82.5	35	✓
1	1200	145T	208-230/460	DP10	Ball	1LE20021AC314AA3	289	SA-70D	1.9	80	40	✓
1.5	3600	143T	208-230/460	DP10	Ball	1LE20021AA214AA3	246	SA-70D	2.1	82.5	35	✓
1.5	1800	145T	208-230/460	DP10	Ball	1LE20021AB314AA3	246	SA-70D	2.1	84	40	✓
1.5	1200	182T	208-230/460	DP10	Ball	1LE20021CC114AA3	318	SA-70D	2.6	85.5	75	✓
2	3600	145T	208-230/460	DP10	Ball	1LE20021AA314AA3	289	SA-70D	2.7	84	40	✓
2	1800	145T	208-230/460	DP10	Ball	1LE20021AB414AA3	271	SA-70D	2.8	84	40	✓
2	1200	184T	208-230/460	DP10	Ball	1LE20021CC314AA3	325	SA-70D	3.5	86.5	85	✓
3	3600	145T	208-230/460	DP10	Ball	1LE20021AA414AA3	325	SA-70D	4	85.5	40	✓
3	1800	182T	208-230/460	DP10	Ball	1LE20021CB114AA3	282	SA-70D	4.2	87.5	75	✓
3	1200	213T	208-230/460	DP10	Ball	1LE20022AC114AA3	451	SA-70D	4.4	87.5	115	✓
5	3600	182T	208-230/460	DP10	Ball	1LE20021CA214AA3	395	SA-70D	6.4	87.5	75	✓
5	1800	184T	208-230/460	DP10	Ball	1LE20021CB314AA3	355	SA-70D	6.7	87.5	85	✓
5	1200	215T	208-230/460	DP10	Ball	1LE20022AC214AA3	625	SA-70D	7.1	87.5	130	✓
7.5	3600	184T	208-230/460	DP10	Ball	1LE20021CA414AA3	470	SA-70D	8.9	88.5	85	✓
7.5	1800	213T	208-230/460	DP10	Ball	1LE20022AB114AA3	514	SA-70D	9.5	89.5	115	✓
7.5	1200	254T	208-230/460	DP10	Ball	1LE20022BC114AA3	797	SA-70D	10.5	89.5	210	✓
10	3600	213T	208-230/460	DP10	Ball	1LE20022AA714AA3	591	SA-70D	12.5	89.5	115	✓
10	1800	215T	208-230/460	DP10	Ball	1LE20022AB214AA3	601	SA-70D	13	89.5	130	✓
10	1200	256T	208-230/460	DP10	Ball	1LE20022BC214AA3	925	SA-70D	13.5	89.5	240	✓
15	3600	215T	208-230/460	DP10	Ball	1LE20022AA814AA3	802	SA-70D	18.5	90.2	130	✓
15	1800	254T	208-230/460	DP10	Ball	1LE20022BB114AA3	792	SA-70D	19	91	210	✓
15	1200	284T	208-230/460	DP10	Ball	1LE20022CC114AA3	1261	SA-70D	20.3	90.2	322	✓
20	3600	254T	208-230/460	DP10	Ball	1LE20022BA714AA3	943	SA-70D	24	90.2	210	✓
20	1800	256T	208-230/460	DP10	Ball	1LE20022BB214AA3	986	SA-70D	25	91	240	✓
20	1200	286T	208-230/460	DP10	Ball	1LE20022CC214AA3	1695	SA-70D	26	90.2	393	✓
25	3600	256T	208-230/460	DP10	Ball	1LE20022BA814AA3	1150	SA-70D	30	91	240	✓
25	1800	284TS	208-230/460	DP10	Ball	1LE20022DB114AA3	1162	SA-70D	31	92.4	312	✓
25	1800	284T	208-230/460	DP10	Ball	1LE20022CB114AA3	1162	SA-70D	31	92.4	312	✓
25	1200	324T	208-230/460	DP10	Ball	1LE20023AC114AA3	1951	SA-70D	31	91.7	495	✓
30	3600	284TS	208-230/460	DP10	Ball	1LE20022DA314AA3	1307	SA-70D	36	91	322	✓
30	1800	286TS	208-230/460	DP10	Ball	1LE20022DB214AA3	1357	SA-70D	36.5	92.4	385	✓
30	1800	286T	208-230/460	DP10	Ball	1LE20022CB214AA3	1357	SA-70D	36.5	92.4	385	✓
30	1200	326T	208-230/460	DP10	Ball	1LE20023AC214AA3	1970	SA-70D	37	91.7	545	✓
40	3600	286TS	208-230/460	DP10	Ball	1LE20022DA414AA3	1778	SA-70D	48	91.7	393	✓
40	1800	324TS	208-230/460	DP10	Ball	1LE20023BB114AA3	1692	SA-70D	49	93	490	✓
40	1800	324T	208-230/460	DP10	Ball	1LE20023AB114AA3	1692	SA-70D	49	93	490	✓
40	1200	364T	208-230/460	DP10	Ball	1LE20023CC114AA3	2790	SA-70D	50	93	650	✓
50	3600	324TS	208-230/460	DP10	Ball	1LE20023BA314AA3	2155	SA-70D	59	92.4	495	✓
50	1800	326TS	208-230/460	DP10	Ball	1LE20023BB214AA3	1941	SA-70D	61	93	535	✓
50	1800	326T	208-230/460	DP10	Ball	1LE20023AB214AA3	1941	SA-70D	61	93	535	✓
50	1200	365T	208-230/460	DP10	Ball	1LE20023CC214AA3	3511	SA-70D	52	93	710	✓
60	3600	326TS	208-230/460	DP10	Ball	1LE20023BA414AA3	2582	SA-70D	70	93	545	✓
60	1800	364TS	208-230/460	DP10	Ball	1LE20023DB114AA3	2380	SA-70D	72	93.6	640	✓
60	1800	364T	208-230/460	DP10	Ball	1LE20023CB114AA3	2380	SA-70D	72	93.6	640	✓
60	1200	404T	208-230/460	DP10	Ball	1LE20024AC114AA3	3742	SA-70D	73	93.6	855	✓

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DP10

Stock/Modifiable

HP	RPM	Frame	Voltage	Type	DE Bearing	Part Number	List Price \$	Multiplier Symbol	FL Amps 460V	FL Nom. Eff. (%)	Weight (lbs.)	Stock Model
75	3600	364TS	208-230/460	DP10	Ball	1LE20023DA314AA3	3260	SA-7OD	87	93	650	✓
75	1800	365TS	208-230/460	DP10	Ball	1LE20023DB214AA3	3027	SA-7OD	89	94.1	705	✓
75	1800	365T	208-230/460	DP10	Ball	1LE20023CB214AA3	3027	SA-7OD	89	94.1	705	✓
75	1200	405T	208-230/460	DP10	Ball	1LE20024AC214AA3	4498	SA-7OD	91	93.6	945	✓
100	3600	365TS	208-230/460	DP10	Ball	1LE20023DA414AA3	4482	SA-7OD	115	93.6	710	✓
100	1800	404TS	208-230/460	DP10	Ball	1LE20024BB314AA3	3901	SA-7OD	117	94.5	850	✓
100	1800	404T	208-230/460	DP10	Ball	1LE20024AB714AA3	3901	SA-7OD	117	94.5	850	✓
100	1200	444T	460 PWS	DP10	Roller	1LE29214CC122AA3	5699	SA-7OD	116	94.1	1185	✓
100	900	445T	460	DP10	Roller	1LE29214CD212AA3	7760	SA-7OD	126	93.6	1300	✓
125	3600	404TS	460	DP10	Ball	1LE20024BA312AA3	5514	SA-7OD	144	94.5	855	✓
125	1800	405TS	460	DP10	Ball	1LE20024BB412AA3	4487	SA-7OD	144.5	94.5	930	✓
125	1800	405T	460	DP10	Ball	1LE20024AB812AA3	4487	SA-7OD	144.5	94.5	930	✓
125	1200	445T	460 PWS	DP10	Roller	1LE29214CC222AA3	6933	SA-7OD	145	94.1	1300	✓
125	900	447T	460	DP10	Roller	1LE29214CD312AA3	8573	SA-7OD	152	94.1	1680	✓
150	3600	405TS	460	DP10	Ball	1LE20024BA412AA3	7131	SA-7OD	171.5	94.5	940	✓
150	1800	444TS	460 PWS	DP10	Ball	1LE29214DB722AA3	6451	SA-7OD	190	95	1185	✓
150	1800	444T	460 PWS	DP10	Roller	1LE29214CB722AA3	6451	SA-7OD	190	95	1185	✓
150	1800	444T	460 Y/D	DP10	Roller	1LE29214CB732AA3	6451	SA-7OD	190	95	1185	✓
150	1200	445T	460 PWS	DP10	Roller	1LE29214CC822AA3	7636	SA-7OD	174	94.5	1300	✓
150	900	447T	460	DP10	Roller	1LE29214CD412AA3	9672	SA-7OD	188	94.1	1680	✓
200	3600	444TS	460 Y/D	DP10	Ball	1LE29214DA732AA3	9377	SA-7OD	223	94.5	1185	✓
200	1800	445TS	460 PWS	DP10	Ball	1LE29214DB822AA3	7865	SA-7OD	235	95	1300	✓
200	1800	445T	460 PWS	DP10	Roller	1LE29214CB822AA3	7865	SA-7OD	235	95	1300	✓
200	1800	445T	460 Y/D	DP10	Roller	1LE29214CB832AA3	7865	SA-7OD	235	95	1300	✓
200	1200	447T	460 PWS	DP10	Roller	1LE29214CC422AA3	9975	SA-7OD	232	94.5	1680	✓
200	900	449T	460	DP10	Roller	1LE29214CD612AA3	10355	SA-7OD	253	94.5	2000	✓
250	3600	445TS	460 Y/D	DP10	Ball	1LE29214DA832AA3	10032	SA-7OD	277	94	1300	✓
250	1800	445TS	460 PWS	DP10	Ball	1LE29214DB922AA3	8863	SA-7OD	315	94	1300	✓
250	1800	445T	460 PWS	DP10	Roller	1LE29214CB922AA3	8863	SA-7OD	315	94	1300	✓
250	1800	445T	460 Y/D	DP10	Roller	1LE29214CB932AA3	8863	SA-7OD	315	94	1300	✓
250	1200	449T	460 PWS	DP10	Roller	1LE29214CC622AA3	9810	SA-7OD	288	95	2000	✓
300	3600	447TS	460 Y/D	DP10	Ball	1LE29214DA432AA3	11781	SA-7OD	335	93	1680	✓
300	1800	447TS	460 PWS	DP10	Ball	1LE29214DB422AA3	9832	SA-7OD	364	94.1	1680	✓
300	1800	447T	460 PWS	DP10	Roller	1LE29214CB422AA3	9832	SA-7OD	364	94.1	1680	✓
300	1200	449T	460	DP10	Roller	1LE29214CC012AA3	11392	SA-7OD	351	94.1	2000	✓
350	3600	447TS	460 Y/D	DP10	Ball	1LE29214DA032AA3	13494	SA-7OD	389	93.6	1680	✓
350	1800	447TS	460	DP10	Ball	1LE29214DB012AA3	11500	SA-7OD	433	94.5	1680	✓
350	1800	447T	460	DP10	Roller	1LE29214FB512AA3	11500	SA-7OD	433	94.5	1680	✓
400	3600	449TS	460 Y/D	DP10	Ball	1LE29214GA532AA3	15354	SA-7OD	442	94.1	2000	✓
400	1800	449TS	460	DP10	Ball	1LE29214GB512AA3	14500	SA-7OD	495	94.5	2000	✓
400	1800	449T	460	DP10	Roller	1LE29214FB612AA3	14500	SA-7OD	495	94.5	2000	✓
450	3600	449TS	460 Y/D	DP10	Ball	1LE29214GA632AA3	15654	SA-7OD	487	95	2000	✓
500	3600	449TS	460 Y/D	DP10	Ball	1LE29214GA732AA3	17018	SA-7OD	570	94.8	2000	✓

## Notes:

- 575V available upon request for 440 frames only.
- Shaded ratings are not in the scope of EPCAct regulations.

HIGH EFFICIENT  
General PurposeHIGH EFFICIENT  
Severe DutyHIGH EFFICIENT  
Multi SpeedHIGH EFFICIENT  
Hazardous DutyHIGH EFFICIENT  
Definite PurposeHIGH EFFICIENT  
P-Base VerticalNEMA PREMIUM  
General PurposeNEMA PREMIUM  
Severe Duty