

SCR RATED:
27-353 In-Lbs Torque
LOW VOLTAGE:
113-353 In-Lbs Torque

Electrical Specifications:

SCR Rated Gearmotors

Totally enclosed, permanent magnet DC gearmotors, performance matched for continuous duty service over a 60:1 speed range. All have constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4.



Low Voltage Gearmotors

Totally enclosed, permanent magnet DC gearmotors, performance matched for continuous duty. Motors are designed for battery power or can be used with a low voltage controller with form factor up to 1.05.

Mechanical Specifications:

Precision machined in-line steel gears, with a first stage steel helical gear followed by spur-type gears. Lubrication is permanent semi-fluid grease, reducing possibility of leakage. Output shafts have needle bearings for high load capacities. Shafts are hardened steel.

Conduit box not included with motor. Optional conduit box shown on page 179.

Application Notes:

These gearmotors are designed for mounting at any angle, but shaft up with motor below should be avoided to prevent leakage of lubricant into the motor should the motor's shaft seal fail.

Overhung load capacities shown are at center of output shaft.

The motor's stall torque exceeds recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. Model 300 gearmotors have the same mounting dimensions as Bison's 300 and many Dayton gearmotors.

For additional information, see Bulletin 1830.

P300 SERIES DC • SCR RATED
PARALLEL SHAFT • TENV • 1.0 SERVICE FACTOR

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps. DC	Overhung Load (Lb.)	DIMENSIONS			
									P	X	XL	XH
5	353	1/20	M1115024.00	P303-30E	336	90	0.54	565	3.00	3.54	10.07	8.57
9	268	1/20	M1115025.00	P303-30E	216	90	0.54	474	3.00	3.54	10.07	8.57
18	150	1/20	M1115026.00	P303-30E	103	90	0.54	385	3.00	3.54	10.07	8.57
20	140	1/20	M1125092.00 A	P303-31E	90	180	0.31	370	3.11	3.54	10.07	8.57
24	280	1/8	M1125069.00	P303-30E	76	90	1.30	353	3.00	3.54	11.54	10.04
31	220	1/8	M1125070.00	P303-30E	58	90	1.30	327	3.00	3.54	11.54	10.04
31	220	1/8	M1125038.00	P303-30E	58	180	0.66	327	3.00	3.54	11.54	10.04
34	82	1/20	M1115027.00	P303-30E	52	90	0.54	318	3.00	3.54	10.07	8.57
51	130	1/8	M1125071.00	P302-30E	35	90	1.30	277	3.00	3.54	11.54	10.04
51	130	1/8	M1125039.00	P302-30E	35	180	0.66	277	3.00	3.54	11.54	10.04
51	55	1/20	M1115028.00	P302-30E	35	90	0.54	281	3.00	3.54	10.07	8.57
61	113	1/8	M1125072.00	P302-30E	29	90	1.30	267	3.00	3.54	11.54	10.04
60	45	1/20	M1125093.00 A	P302-31E	29	180	0.31	267	3.11	3.54	10.07	8.57
94	77	1/8	M1125073.00	P302-30E	19	90	1.30	236	3.00	3.54	11.54	10.04
94	77	1/8	M1125040.00	P302-30E	19	180	0.66	236	3.00	3.54	11.54	10.04
109	27	1/20	M1115029.00	P302-30E	16	90	0.54	224	3.00	3.54	10.07	8.57
106	26	1/20	M1125094.00 A	P302-31E	16	180	0.31	222	3.11	3.54	10.07	8.57
167	43	1/8	M1125074.00	P302-30E	11	90	1.30	197	3.00	3.54	11.54	10.04
170	43	1/8	M1125041.00	P302-30E	11	180	0.66	196	3.00	3.54	11.54	10.04

GEARMOTORS

P300 SERIES DC • LOW VOLTAGE (12V)
PARALLEL SHAFT • TENV • 1.0 SERVICE FACTOR

Output RPM	F.L. Torque (Lb.in.)	Input HP	Catalog Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps. DC	Overhung Load (Lb.)	DIMENSIONS			
									P	X	XL	XH
5	353	1/20	M1125217.00	P303-30	336	12	5.6	565	3.00	3.85	10.07	8.57
31	220	1/8	M1125218.00	P303-30	58	12	10.6	327	3.00	3.54	11.54	10.04
51	130	1/8	M1125219.00 A	P302-30	35	12	10.3	277	3.00	3.23	11.54	10.04
61	113	1/8	M1125220.00	P302-30	29	12	10.4	267	3.00	3.23	11.54	10.04

A Subject to Availability.

BISON/DAYTON
DIRECT INTERCHANGE

