

P528 series geared dc ironless rotor servo motors

The P528 series geared dc servo motors utilise carbon brush technology to provide long life when used with PWM drive circuits.

Furthermore, the use of a pre-loaded ball bearing construction enables the fitment of an optical shaft encoder for use with digital control circuits.

As an alternative, the motor may be specified with a precision dc tachogenerator as shown.

This may be used to provide accurate bi-directional velocity control or where additional velocity damping is required in positional control systems.



Geared dc Servo Motor	Ratio	Rated Speed (rpm)	Rated Torque (Ncm)	Peak Torque (Ncm)	Torque Constant (Ncm / Amp)
P528-DC024-G01....	25:6	840	4.5	15.0	13.3
-G03	25:4	560	6.8	22.5	20.0
-G04	25:3	420	9.0	30.0	26.7
-G05	10:1	350	9.8	32.5	28.9
-G06	25:2	280	12.2	40.6	36.2
-G08	50:3	210	16.2	54.2	48.2
-G09	20:1	175	19.5	65.0	57.9
-G11	25:1	140	24.4	70.0	72.3
-G14	100:3	105	32.5	75.0	96.4
-G16	125:3	84	40.6	80.0	120.5
-G17	50:1	70	45.0	80.0	144.6
-G19	125:2	56	50.0	80.0	161.3
-G21	250:3	42	55.0	80.0	215.1
-G23	125:1	28	60.0	80.0	322.6
-G27	250:1	14	65.0	80.0	645.3
-G34	500:1	7	70.0	85.0	1,179.3
-G41	1250:1	2.8	75.0	90.0	2,948.1
-G62	15,000:1	0.2	80.0	100.0	28,702.5

Voltage Options:

geared dc servo motors: P528-DC006 Series	: 6 Vdc	Torque constant 0.24 Kt
: P528-DC012 Series	: 12 Vdc	0.49 Kt
: P528-DC024 Series	: 24 Vdc	as above (Kt)

Versions with encoder: P528-CI ... Series : 6, 12, & 24 Vdc, torque constants as above

Encoder options provide dual track TTL output signals with 500 ppr. at motor. (**type CI-500T**)

or versions with 5V line driver outputs with complimentary signals and index. (**type CI-500L**)

Other line counts including 100ppr. & 360 ppr. are available to special order.

Versions with tacho	: P528-DT006 Series	: 6 Vdc	0.25 Kt
	: P528-DT012 Series	: 12 Vdc	0.53 Kt
	: P928-DT024 Series	: 24 Vdc	1.05 Kt

tacho voltage : 1 mV /rpm x Gear ratio

tacho voltage tolerance: ± 2 %

tacho resistance : 210 Ohms

Rotor inductance : 3 mH

Polarity of output : dependent on direction of rotation

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