

# P5 series geared dc ironless rotor servo motors

Geared dc Servo Motor	Ratio	Rated Speed ( rpm )	Rated Torque ( Ncm )	Peak Torque ( Ncm )	Torque Constant ( Ncm / Amp )
P518-DC105-G01....	25:6	720	1.5	8.7	8.9
-G03	25:4	480	2.3	13.1	13.3
-G04	25:3	360	3.0	17.4	17.8
-G05	10:1	300	3.3	18.9	19.2
-G06	25:2	240	4.1	23.6	24.1
-G08	50:3	180	5.4	31.4	32.1
-G09	20:1	150	6.5	37.7	38.5
-G11	25:1	120	8.1	47.1	48.1
-G14	100:3	90	10.8	62.8	64.1
-G16	125:3	72	13.5	78.5	80.2
-G17	50:1	60	16.3	80.0	96.2
-G19	125:2	48	18.1	80.0	107.3
-G21	250:3	36	24.2	80.0	143.1
-G23	125:1	24	36.3	80.0	214.6
-G27	250:1	12	60.0	80.0	429.2
-G34	500:1	6	65.0	85.0	784.4
-G41	1250:1	2.40	70.0	90.0	1,961.0
-G62	15,000:1	0.20	80.0	100.0	19,092.0

## Standard Voltage Options:

dc servo motor	P518-DC105 Series	: 12 Vdc	Torque Constant As above ( Kt )
dc servo motor	P518-DC215 Series	: 24 Vdc	2 x Kt
dc servo motor-ac tacho	P518-DT113 Series	: 12 Vdc	As above ( Kt )

Geared dc Servo Motor	Ratio	Rated Speed ( rpm )	Rated Torque ( Ncm )	Peak Torque ( Ncm )	Torque Constant ( Ncm / Amp )
P516-DC111-G01....	25:6	576	4.5	19	10.5
-G03	25:4	384	6.8	25	15.8
-G04	25:3	288	9.0	35	21.0
-G05	10:1	240	9.8	40	22.8
-G06	25:2	192	12.2	45	28.4
-G08	50:3	144	16.2	60	37.9
-G09	20:1	120	19.5	65	45.5
-G11	25:1	96	24.4	70	56.9
-G14	100:3	72	32.5	75	75.8
-G16	125:3	58	40.6	80	94.8
-G17	50:1	48	45.0	80	113.8
-G19	125:2	38	50.0	80	126.9
-G21	250:3	29	55.0	80	169.2
-G23	125:1	19	60.0	80	253.8
-G27	250:1	10	70.0	80	507.5
-G34	500:1	5	75.0	85	927.5
-G41	1250:1	2	80.0	90	2,318.8
-G62	15,000:1	0.2	90.0	100	22,575.0

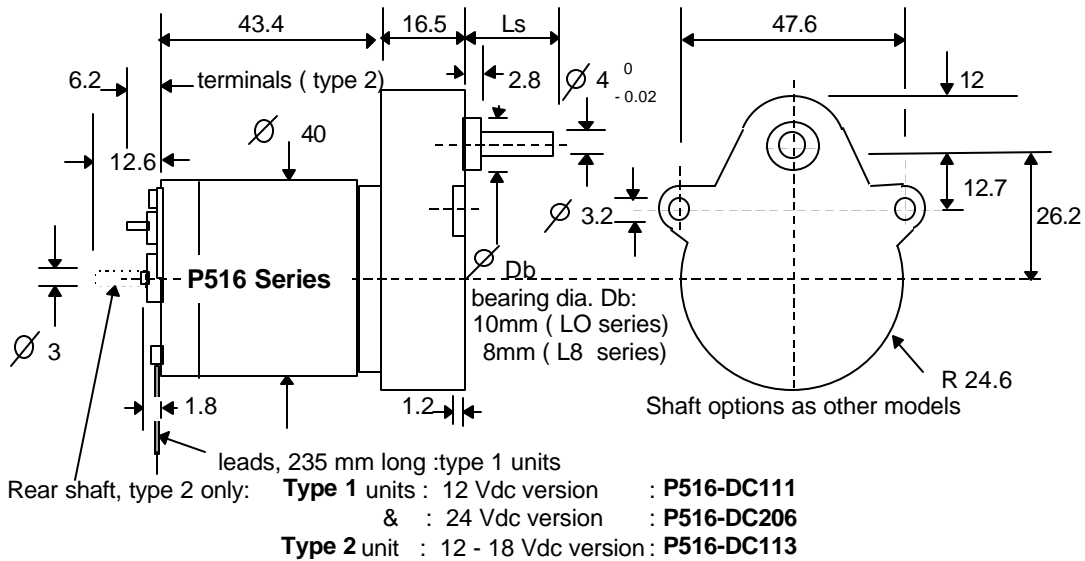
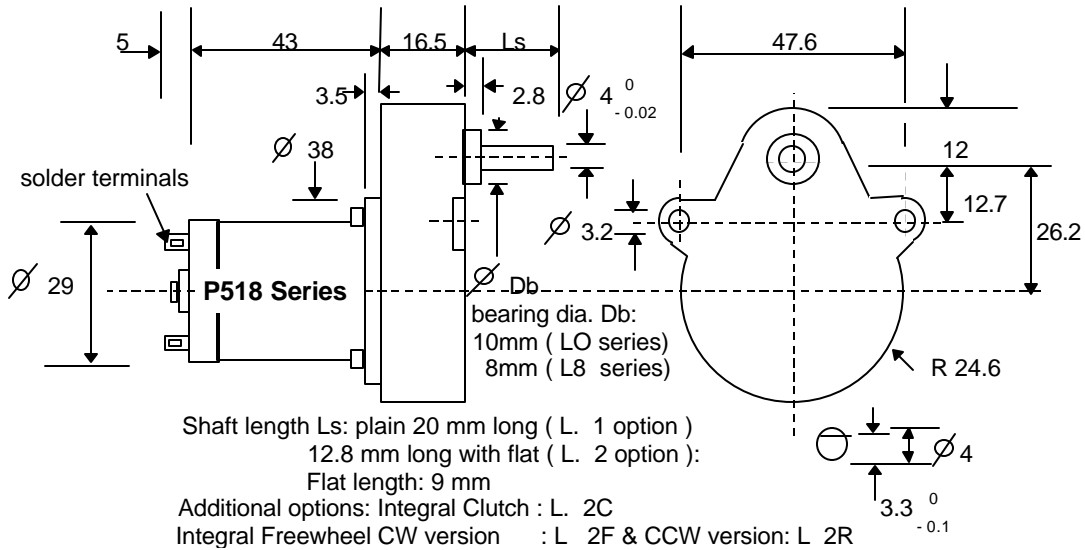
## Standard Voltage Options:

dc servo motor	P516-DC111 Series	: 12 Vdc	Torque Constant As above ( Kt )
dc servo motor with rear shaft	P516-DC113 Series	: 12 Vdc	As above ( Kt )

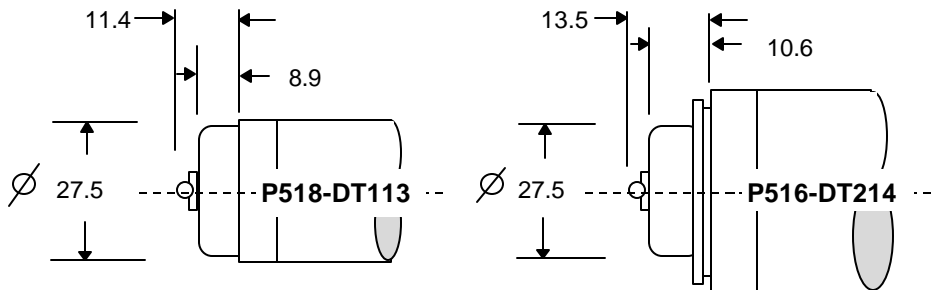
Note: P516-DC113 has a re-inforced commutator & may be operated @ 15 Vdc when a 25% increase in speed and torque is obtained providing the maximum torque rating of the P5 gearhead is not be exceeded.

dc servo motor	P516-DC206 Series	: 24 Vdc	2 x Kt
dc servo motor-ac tacho	P516-DT214 Series	: 24 Vdc	2 x Kt

# P5 Series geared dc servo motors



## ac tacho options:



### Typical AC Tacho Voltage

@ Rated speed ( Vrms)	800 mV	700 mV
@ 10% Rated speed ( Vrms)	140 mV	110 mV
Amplitude Variation for 1 rev @ motor	15% max.	
Number of poles :	72	
Output Frequency ( Hz ) =	<u>72 x Output speed x gear ratio</u>	
	60	
Tacho Resistance ( Ohms)	775	
Tacho Inductance ( H )	0.5	