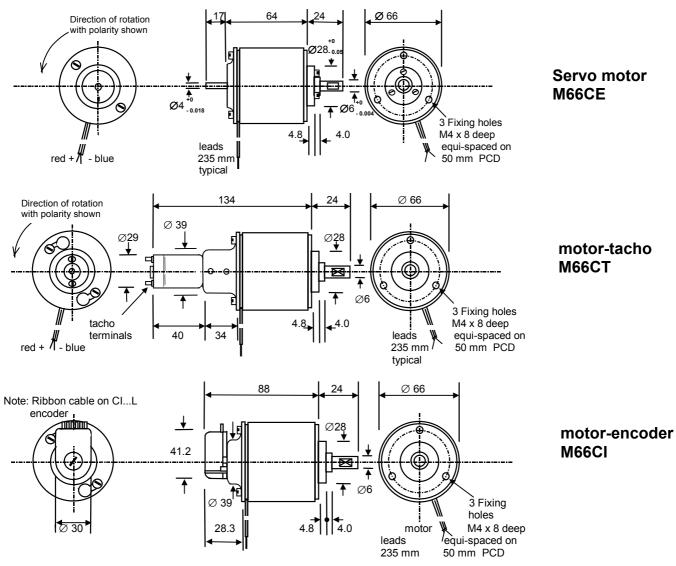
Low inertia dc servo motor

M66 series

The M66CE is a high performance low inertia dc servo motor, providing up to 30W output power and offers smooth operation over a wide speed range. The M66CE motor incorporates a skewed ironless rotor thereby ensuring linear speed and torque characteristic combined with rapid acceleration and reversal capabilities.

The type M66CT includes an integral dc tachogenerator for optimum velocity control using analogue control techniques while M66Cl series is provided with an integral dual track incremental encoder for use with digital control circuits.

Dimensions: mm



Typical

performance								
Motor	No-load	Rated	Rated	Rated	Peak	using	DC	Power Supply for
	Speed	Speed	Torque	Current	Torque	Servo	Supply	AC operation
	(rpm)	(rpm)	(Ncm)	(Amps)	(Ncm)	Amplifier	(Vdc)	(110-240 Vac)
								suitable for use with
M66-12 series	2,700	1,700	8	2.0	16	MSE421	12	12 Vdc battery
	2,300	1,600	9	1.0	27	PM121-10*	N/A	integral in amplifier
M66 -24 series	2,300	1,600	9	1.0	27	MSE421-30	24	MSE 171E
	2,300	1,600	12	1.3	27	MSE421-60	24	MSE 171E
	,							

Note* Specify PM121-10T when using matched M66 C24T3/T6-tacho unit



30 Watt Ironless rotor dc servo motor

M66 series

Specification dc servo motor type M66CE

M66 Motor- options:	M66CE-	-12	-24	Performance @ 24 Vdc
Nominal Voltage	(Vdc)	12	30	24
Maximum Output Power	(Watts)	15	30	20
No-load speed	(rpm)	2,700	2,900	2,300
Speed @ rated torque	(rpm)	1,800	2,300	1,600
Rated Torque	(Ncm)	8	12	12
Peak Torque	(Ncm)	25	36	27
Max. No load current (milli Amps)	120	65	60
Rotor Inertia	(Kgcm ²)	0.214	0.214	
Mechanical time constant	(milli secs)	24.5	17	
Torque Constant	(Ncm/A)	4.1	9.8	
Voltage Constant (V	/ 1000 rpm)	4.27	10.3	
Rotor Resistance	(Ohms)	1.9	7.8	
Rotor inductance	(mH)	1.0	5.0	
Commutation		C	opper -graph	ite
Bearings		l p	re-loaded ba	II
Maximum radial load		100	N, 12 mm fro	om bearing face
Maximum axial load		15		ū
Ambient operating tempera	ature range	-10 t	o +60 ^O C	

motor-tacho versions M66CT series

types:	M66C12 T3	M66C24	T3	M66C24 T6	
Nominal Voltage	12Vdc	24-30 Vdc		24-30 Vdc	
Motor specification:	As above				
Tacho Specification	T.3 series T.6 se		6 series		
Voltage constant V/1000 rpm		3.25	3.25		6.50
Average ripple peak / peak		3% (ripple fre	quency 18	3 cycle	s per rev.)
Rotor resistance Ohms		12			47
Max. continuous speed rpm		3,	000		

motor-encoder version M66-Cl...series

types:		M66CIT-12	M66CIT-24
		M66CIL-12	M66CIL-24
Nominal Voltage		12Vdc	24Vdc
Motor specification:		As abov	ve
Encoder type		CIT	CIL
Supply Vdc		5 <u>+</u> 0.5	5 <u>+</u> 0.5
Max. Output signal	Max. Output signal Vdc		5
Signal wave form	Signal wave form		Square
Output Circuit		TTL	RS 422
Output Configuration		Dual Track	Dual Track + Index
		Quadrature	(complementary)
Number of Lines		100 or 500	100 or 500

Typical Motor-encoder part number: M66 CI 500 L-24 500 line dual track encoder with Index -24-30 Vdc motor winding

Note:

M66 servo motors are also available with an integral parking brake (M66DB) If a parking brake is required please contact us for full specification of M66DB options

dc servo motor with parking brake

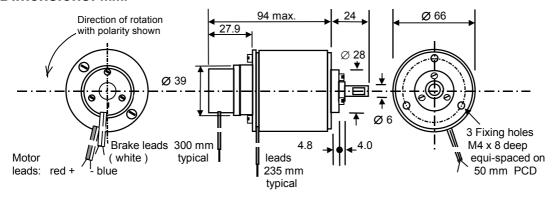
M66DB series

The M66DB is a low inertia, ironless rotor dc servo motor which is equipped with a 'power-off' parking brake to provide a static holding torque to resist movement under unbalanced load conditions when the motor/brake assembly is deenergised. Additionally the brake may be used in dynamic conditions to arrest motion although increased wear will then

When the brake is energised the motor is free to rotate and may be controlled to provide a very wide speed range with minimal cogging, even at low speed, due to it's ironless rotor construction.

The motor is equipped with long-life carbon brushes which are suitable for electronic speed control by either linear or PWM servo amplifier systems.

Dimensions: mm.



Specification:

M66 Motor- Brake options: M66DB-	-12	-24	Performance @ 24 Vdc
			_
Nominal Voltage (Vdc)	12	30	24
Maximum Output Power (Watts)	15	30	20
No-load speed (rpm)	2,700	2,900	2,300
Speed @ rated torque (rpm)	1,800	2,300	1,600
Rated Torque (Ncm)	8	12	12
Peak Torque (Ncm)	25	36	27
Max. No load current (milli Amps)	120	65	60
Rotor Inertia (Kgcm ²)	0.214	0.214	
Mechanical time constant (milli secs)	24.5	17	
Torque Constant (Ncm / A)	4.1	9.8	
Voltage Constant (V / 1000 rpm)	4.27	10.3	
Rotor Resistance (Ohms)	1.9	7.8	
Rotor inductance (mH)	1.0	5.0	
Commutation	С	opper -graphite	
Bearings	р	re-loaded ball	
Maximum radial load	100 N, 12 mm from bearing face		
Maximum axial load	15	N	· ·
Ambient operating temperature range	-10 to	o +60 ^O C	

Brake specification

Nominal Operating Voltage (Vdc)	12	24
Operating Current (Amps)	<u>< </u> 0.50	0.22
Min. Pull-in voltage (Vdc)	<u><</u> 10	18
Max. Drop-out voltage (Vdc)	<u>></u> 6	8
Holding Torque, de-energised (Ncm)	10	10

Assembly order code

Standard voltage options	M66DB-12	M66DB-24
Ctarrage options	1110000	1110000



dc servo motor with parking brake

M66 series

Special Versions:

In some cases it may be preferred to utilise a 24 Vdc version of the servo motor with 12 Volt rated brake and visa versa. In these case the following special part numbers should be used:

Specification: Special models

Special models:	M66CE-12/ DB24	M66CE	-24 /DB12
Nominal Motor Voltage	12 Vdc	24 Vdc	
Nominal Brake Voltage	24 Vdc	12 Vdc	
Specification			
Applied motor Voltage (Vdc)	12	30	24
Maximum Output Power (Watts)	15	30	20
No-load speed (rpm)	2,700	2,900	2,300
Speed @ rated torque (rpm)	1,800	2,300	1,600
Rated Torque (Ncm)	8	12	12
Peak Torque (Ncm)	25	36	27
Max. No load current (milli Amps)	120	65	60
Rotor Inertia (Kgcm²)	0.214	0.214	
Mechanical time constant (milli secs)	24.5	17	
Torque Constant (Ncm / A)	4.1	9.8	
Voltage Constant (V / 1000 rpm)	4.27	10.3	
Rotor Resistance (Ohms)	1.9	7.8	
Rotor inductance (mH)	1.0	5.0	
Commutation	copper -graphite		
Bearings	pre-loaded ball		
Maximum radial load	100 N, 12 mm from bearing face		
Maximum axial load	15 N		
Ambient operating temperature range	-10 to +60 ^O C		

Brake specification

Drane opcomoducii		
Nominal Brake Voltage (Vdc)	24	12
Operating Current (Amps)	0.22	<u><</u> 0.50
Min. Pull-in voltage (Vdc)	18	<u><</u> 10
Max. Drop-out voltage (Vdc)	8	≥ 6
Holding Torque, de-energised (Ncm)	10	10

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