



DC42



DC Geared Motors

Design

Standard Data DC42 Series motors are DC motors (Outsourced) that are used in Combination with some Mechtex gearheads. Depending on the application, output speed, the load applied etc the type of gearhead can be selected. Case hardened steel Life expectancy gears are used due to the high Direction torque generated by these Technical Data motors. The first pair of gears can be helical to damp the noise. All bearings are permanently lubricated and therefore require no maintenance.

Features

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Application

Gas Chromatography, Valve Actuators, Motorised Potentiometer.

Options

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Standard Data

Parameter	Value	Unit
Motor type	PM brushed DC Motor	
Combination with Mechtex Gear Series	GBV/U,GB W/XOnly	
Standard motor voltages	24,12,6 & 3 (others on request)	V
Weight (DC42/DC52)	360/480	g
Enclosure	20	IP
Mounting	By screws	
Life expectancy	Approx 500 hours @ max efficiency	
Direction	Reversible	

Technical Data

Parameter	Value	Unit
Physical Data for (Dim. mm)	42.2 x 66	Dia x Height
No load data for Voltage	12	VDC
No load data for Speed	5000	RPM
No load data for No-Load	0.700	Current A
Data at Max Efficiency for Speed	4421	RPM
Data at Max Efficiency for Current	3.576	AMPs
Data at Max Efficiency for Torque	6.640	Ncm
Data at Max Efficiency for Effie	70	%
Data at Max Efficiency for Power	30.147	W(out)
Data at Max Efficiency for Power	42.986	W(in)
Stall for Torque	43.270	Ncm
Stall for Current	19.897	A

Assembly Drawings

