



# 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	3	VDC
No load data for Speed	1250	RPM
No load data for No-Load	0.580	Current A
Data at Max Efficiency for Speed	922	RPM
Data at Max Efficiency for Current	1.648	AMPs
Data at Max Efficiency for Torque	2.58	Ncm
Data at Max Efficiency for Effie	51	%
Data at Max Efficiency for Power	2.443	W(out)
Data at Max Efficiency for Power	4.819	W(in)
Stall for Torque	11.994	Ncm
Stall for Current	11.120	A

# Assembly Drawings

