

PM057DG

DC Brush Motor



● General information

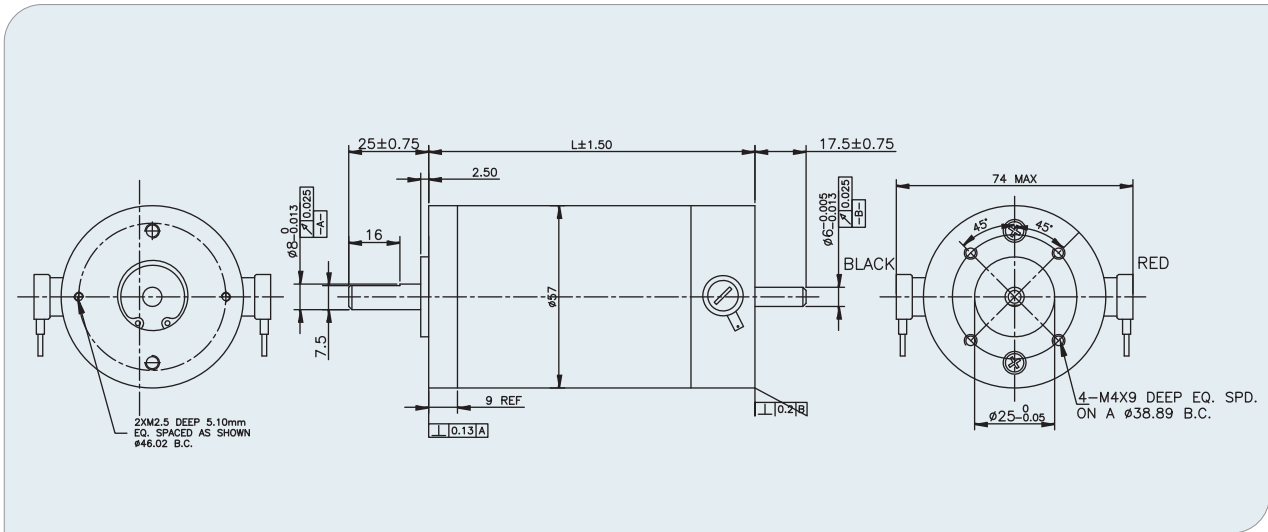
- High performance motors with exceptional efficiency
- Compact size through optimized torque to inertia ratio
- Developed for high dynamic applications
- Best price performance ratio by cost improved design
- Various options to meet your specific needs

● Specifications

SPECIFICATION		PM057DG100	PM057DG210	PM057DG310	PM057DG410	PM057DG430
Continuous Stall Torque	(Lb.in)	0.89	1.77	3.1	3.54	3.54
Peak Stall Torque	(Lb.in)	4.43	9.29	13.28	12.74	12.74
Continuous Stall Current	(A)	0.6	3	3.3	3.3	4.7
Maximum Pulse Current	(A)	2.5	14.7	14.2	11.9	16.7
Maximum Terminal Voltage	(V)	60	60	60	60	60
Maximum Speed	(RPM)	3000	6000	5200	4700	6000
Mechanical Data						
Rotor Moment Of Inertia	(Kg.m ²)	1.3E-05	2.7E-05	4.3E-05	5.3E-05	5.3E-05
Mechanical Time Constant	(MS)	10.4	8.4	8.2	8	8
Motor Mass	(Lb)	1.54	2.2	3.1	3.5	3.5
Thermal Data						
Thermal Resistance (Armature To Ambient)	(C/W)	10	5	4.2	4	4
Winding Specifications						
Torque Constant(KT)	(Nm/A)	0.19	0.071	0.105	0.121	0.86
Voltage Constant(Back EMF)	(V/KRPM)	20	7.41	11	12.7	9
Terminal Resistance	(OHMS)	32	1.55	2	2.2	1.5
Amature Inductance	(mH)	50	3.39	5.2	6.4	2.4
Electrical Time Constant	(mS)	1.6	2.1	2.6	2.9	1.6
L	(mm)	84	102	127	140	140

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● Mechanical



● Characteristic diagram

