

SPEC SHEET FOR DS57B40-101

1. RATING OR DATA DECAL

OUT PUT 40W
VOLTAGE DC 44V
EXCITING MODE PERMANENT MAGNET
RATING

2. MOTOR CHARACTERISTICS

RATING TORQUE 1.8 kg cm 25 OZ-IN
REVOLUTION 1,500 R.P.S.
CURRENT 1.1 A
REVOLUTION AT NON LOAD 1,800 R.P.S. and more
CURRENT 0.3 A
CONSTANT TORQUE 2.1024±0.216 kg cm/A 29 OZ-IN/A
CONSTANT INDUCTANCE VOLTAGE 21.6±2.2 C/1,000 R.P.S.
ARMATURE RESISTANCE 12Ω and less (AT 25°C)
INDUCTANCE 17 mH and less
INERTIA 0.2844±0.08136 X 10⁻³ kg cm Sec²
MECHANICAL TIME CONSTANT 8.4 mSec
ELECTRIC TIME CONSTANT 2.0 mSec and less
BREAKOUT TORQUE 0.285 kg cm and less
PEAK TORQUE (2A) 3.744 kg cm and more 52 OZ-IN
THRUST END PLAY (AT 2.04 LOAD) 0.03mm and less
SHAFT RUN-OUT 0.03mm and less
PULLY RACING TORQUE 8.67 kg cm and more

3. GENERAL

MAXIMUM WINDING COIL TEMPERATURE RAISE 130 °C
INSULATION RESISTANCE 10 MΩ and more at DC500V MEGA
INSULATION STRENGTH AC60Hz 100V 1 min. (1mA and less)
DIRECT OF ROTATION COUNTER CLOCKWISE FROM PULLY SIDE
REVERSIBLE ROTATION POSSIBLE
DIMENSION OF CONFIGURATION AS PER ATTACHED DRAWING
WEIGHT APPROX 1 kg
USABLE AMBIENT TEMPERATURE RANGE 0°C - +40°C
WINDING COLOR (+) RED