

HICOOL ELECTRONIC INDUSTRIES

TECHNICAL SPECIFICATION SHEET MODEL NO. 8P 12H SDC

1.0 Features : General

- 1.01 Item : DC Axial Fan
- 1.02 Drive : DC Brush less motor
- 1.03 Commutation : Electronic ckts.inside motor-hub

2.0 Features : Constructional

- 2.01 Dimensions : 80x80x25mm
- 2.02 Body material : Glass reinforced PBT
Flame Retardant
- 2.03 Blade material : Glass reinforced PBT
Flame Retardant
- 2.04 Bearing type : Sleeve Bearing
- 2.05 Connecting elements : Fly leads of min.0.5m length,
Red Positive Black Negative
- 2.06 Weight : 70gms

3.0 Features : Electrical

- 3.01 Rated nominal voltage : 12VDC
- 3.02 Operational voltage range : $\pm 10\%$
- 3.03 Operating Current : ≤ 0.20 Amp
- 3.04 Rate power consumption : ≤ 2.4 W
- 3.05 Starting in rush current : ≤ 0.3 Amp
- 3.06 Locked rotor current : ≤ 0.4 Amp
- 3.07 Locked motor protection : No Burnout Permissible After Rotor Is
Locked For 72Hours At Rated
Voltage 12 With Built In impedance
Protection
- 3.08 Dielectric Strength : ≥ 0.5 KV AC for 1 min.
- 3.09 Insulation resistance : ≥ 50 M Ω at 500V DC
- 3.10 Protection against : Reverse connection

(continue....2)

4.0 Features Operational at rated voltage

4.01	Duty	:	Continuous
4.02	Air flow while static pressure = 0	:	≥ 38 CFM
4.03	Static pressure while air flow = 0	:	≥ 4.5 mm of H ₂ O
4.04	Speed of Rotation	:	3000 ± 150 r.p.m.
4.05	Noise for free air at a distance of 1m.	:	≤ 34 dB
4.06	MTBF (Mean Time Between Failure)	:	30,000hrs at 40°C

5.0 Feature : Thermal

5.01	Insulation Type	:	UL Class A
5.02	Winding temp.rise at rated voltage	:	$\leq 40^\circ\text{K}$

6.0 Features : Mechanical

6.01	Shock endurance in terms of dropping height. For no. of times - 6.	:	≥ 90 cm
6.02	Vibration endurance in terms of acceleration at frequency 15 Hz.	:	≥ 3 g
6.03	Frame strength in terms of screw torque	:	≥ 10 kgfcm
6.04	Lead wire tensile strength	:	≥ 1 kgf

7.0 Features : Environmental

7.01	Operating temp. range	:	$\leq 0^\circ\text{c} \sim \geq 70^\circ\text{c}$
7.02	Operating humidity	:	$\leq 10\% \sim \geq 90\%$
7.03	Storage temp. range	:	$-25^\circ\text{c} \sim \geq 70^\circ\text{c}$
7.04	Storage humidity	:	$\leq 5\% \sim \geq 95\%$