

Specification
of
Motor, UB 2 1 0 0 4 B R

1. Dimension

See drawing SR-FBR021801B.

2. Typical performance

Source voltage 240V, 50Hz

a) With 40mm dia. orifice

Input 950 $\pm$ 95 [W]

Air flow 2.7 $\pm$ 0.27 [m³/min]

b) With sealed orifice

Vacuum 24.0 $\pm$ 2.4 [kPa] {240 $\pm$ 24mbar}

Note 1. Test box : See drawing SR-FBR0001.

2. Typical performance curve : See Fig.1

3. Motor classification

Class E (120°C)

4. Temperature rise

Temperature rise of the motor measured by the resistance method shall not exceed 90 degrees centigrade.

Note : The test conditions and construction of the machine body housing will have an effect on the temperature rise of the motor. Therefore it is imperative to check the temperature rise under the specific conditions laid down by the various Approval Authority Technical Standards. This applies not only to new machines but also to modified versions.

5. Dielectric strength

The motor field and armature windings shall withstand a high potential AC voltage applied between terminals and frame of 1250V for one minute.

6. Insulation resistance

The insulation resistance is more than 2 megohms at an applied voltage of 500V DC.

7. Marking

See drawing SR-FBR021801B.

8. Weight

The net weight of the motor is 2.35 kg.

9. Life expectancy

The brush life of the motor with open intake is in excess of 500 hours at 240V 60Hz.

10. Major construction materials

- a) Impeller : Aluminum sheet
- b) Bracket : Galvanized steel sheet
- c) Fancase : Galvanized steel sheet
- d) Bearing : Impeller side Ball bearing (Rubber shield type)
Commutator side Ball bearing (Rubber shield type)
- e) Commutator : 24 segments mold hook type.
- f) Lead wire : See drawing A-70572001.

11. Load at fancase

Load area MIN.100 DIA. (At fancase)

Load MAX.490 [N] (50kgf)

12. You are requested to make a final decision for fitting like Structure, Dimensions, Life, Characteristics and so on between your apparatus and our motor.

13. You are requested to confirm fitness for Standards and Regulations in your apparatus.

14. You are requested to take care of fitting between your apparatus and our motor when your apparatus will be changed in specification.

15. You are requested to inform us in advance to make a special arrangement in case of necessity of agreement regarding items not mentioned in specifications.

16. We will re-estimate when specifications will be changed.

MODEL No.UB21004BR

AIR FLOW - VACUUM TYPICAL PERFORMANCE DATA 240 V, 50 Hz

Fig. 1

ORIFICE D (mm)	CURRENT I (A)	INPUT W (W)	SPEED N (r/min)	VACUUM H(kPa)	AIR FLOW Q(m ³ /min)	AIR WATT P (W)	EFF. E(%)
40	4.40	975	19048	2.2	2.73	99.9	10.2
30	4.60	1002	18667	5.8	2.50	243.9	24.3
23	4.60	1013	18458	10.2	1.94	328.6	32.4
19	4.50	985	18732	13.0	1.50	324.7	33.0
16	4.20	934	19271	14.8	1.14	280.6	30.0
13	3.70	866	20020	16.8	0.80	224.0	25.9
10	3.50	788	20891	18.7	0.50	155.5	19.7
6.5	3.10	702	21861	20.8	0.22	76.6	10.9
0	2.80	623	22770	24.2	0.00	0.0	0.0

