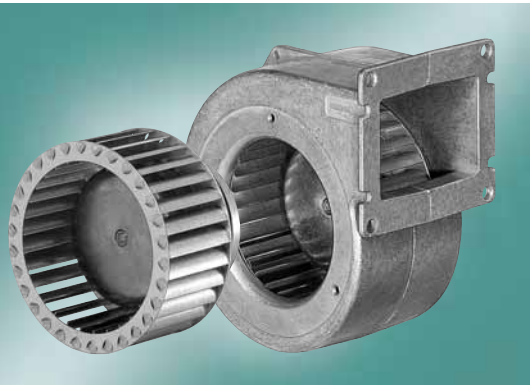


# EC centrifugal fans and blowers

single inlet, Ø 085



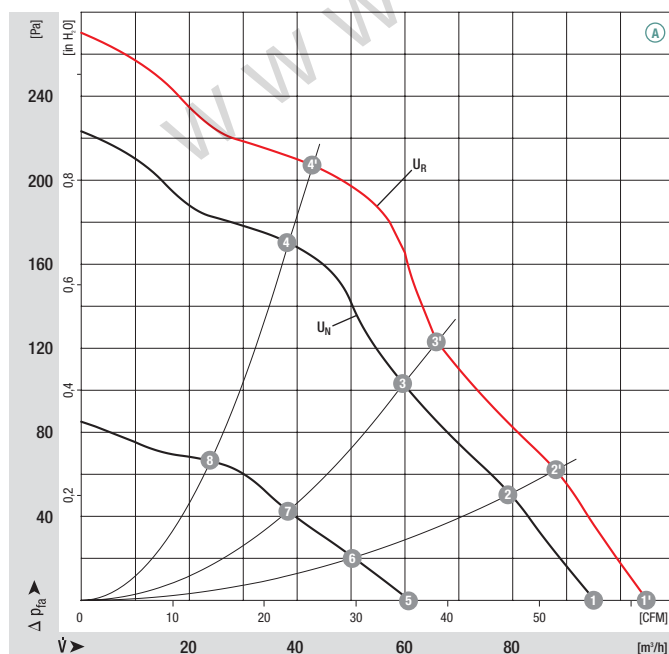
- **Material:** Housing: Die-cast aluminium  
Impeller: Hot-dip galvanised sheet steel  
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

## Nominal data

| Type    | Motor      | Curve | Nominal voltage<br>VDC | Voltage range<br>VDC | Air flow<br>m³/h | Speed/rpm | Power input<br>W | Current draw<br>A | Sound pressure level<br>dB(A) | Min. back pressure<br>Pa | Perm. amb. temp.<br>°C | Electr. connection<br>p. 600 |
|---------|------------|-------|------------------------|----------------------|------------------|-----------|------------------|-------------------|-------------------------------|--------------------------|------------------------|------------------------------|
| *1G 085 | M1G 045-BE | (A)   | 24                     | 16-28                | 95               | 2850      | 14               | 0.64              | 57                            | 0                        | -25 to +60             | G)                           |
| *1G 085 | M1G 045-BE | (A)   | 48                     | 36-57                | 95               | 2850      | 14               | 0.32              | 57                            | 0                        | -25 to +60             | G)                           |

subject to alterations

## Curves

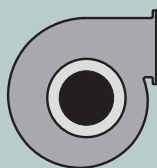


|        | n<br>[rpm] | P <sub>1</sub><br>[W] | L <sub>pA</sub><br>[dB(A)] | η <sub>HL</sub><br>[%] |
|--------|------------|-----------------------|----------------------------|------------------------|
| (A) 1' | 3180       | 19                    | 59                         | —                      |
| (A) 2' | 3300       | 16                    | 57                         | 28                     |
| (A) 3' | 3500       | 15                    | 57                         | 32                     |
| (A) 4' | 3800       | 12                    | 57                         | 37                     |
| (A) 1  | 2850       | 14                    | 57                         | —                      |
| (A) 2  | 3000       | 12                    | 55                         | 28                     |
| (A) 3  | 3180       | 11                    | 55                         | 32                     |
| (A) 4  | 3400       | 9                     | 54                         | 37                     |
| (A) 5  | 1890       | 5                     | 46                         | —                      |
| (A) 6  | 1970       | 4                     | 44                         | 25                     |
| (A) 7  | 2070       | 4                     | 44                         | 30                     |
| (A) 8  | 2170       | 3                     | 42                         | 33                     |

- **Technical features:**
  - Control input 0-10 VDC / PWM
  - Tach output
  - Reverse polarity and locked-rotor protection
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:**  (48 VDC) CCC



Mass of centrifugal fan



Mass of  
centrifugal blower

| Centrifugal fan  | kg  | Centrifugal blower<br>with flange | kg  |
|------------------|-----|-----------------------------------|-----|
| R1G 085-AB05 -01 | 0.5 | G1G 085-AB05 -01                  | 0.8 |
| R1G 085-AB07 -01 | 0.5 | G1G 085-AB07 -01                  | 0.8 |

