

# DC axial fans

Automotive series W3G300, Ø 300mm



## Highlights:

- Control input: 0-10 VDC/PWM
- Load dump (58V)
- Over-voltage detection
- Soft start, motor current limit, line undervoltage detection
- Over 95°C with power derating
- Reverse polarity and locked rotor protection

**Material:** Impeller: PA plastic

Electronic housing: PA plastic

Mounting position: Any

Condensate discharge holes: None, open rotor

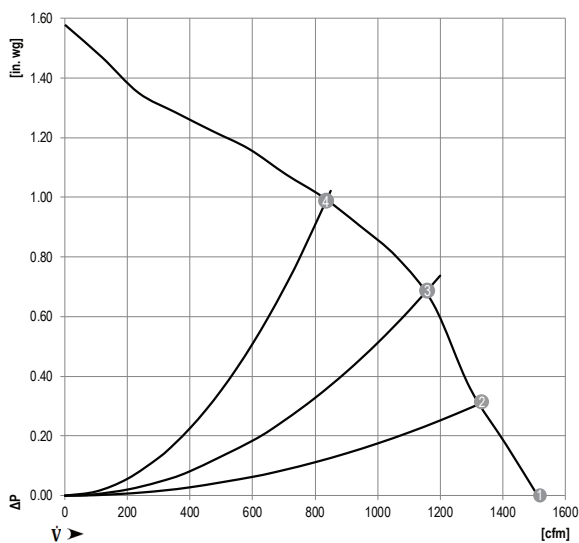
Direction of rotation: Clockwise, seen on rotor

## Nominal Data

| Type           | Motor     | Air flow<br>CFM | Voltage<br>VDC | Voltage range<br>VDC | Power input (1)<br>Watts | Speed (1)<br>RPM | Current draw (1)<br>A | Temperature range (1)<br>°C | Mass<br>lbs | Sealed ball bearings | Direction of air flow<br>(intake) | Ingress protection rating<br>(motor) | Ingress protection rating<br>(electronics) |
|----------------|-----------|-----------------|----------------|----------------------|--------------------------|------------------|-----------------------|-----------------------------|-------------|----------------------|-----------------------------------|--------------------------------------|--------------------------------------------|
| W3G300-BV24-01 | M3G084-BF | 1512            | 26             | 16...32              | 205                      | 3160             | 7.9                   | -40...95/110C               | 4.4         | Yes                  | V                                 | IP 24 KM                             | IP 6K 9K                                   |

(1) Nominal data at free air.

## Curves



Measurement: LU-141130

Air performance measured as per:  
ISO 5801, Installation category  
A, without protection against  
accidental contact.

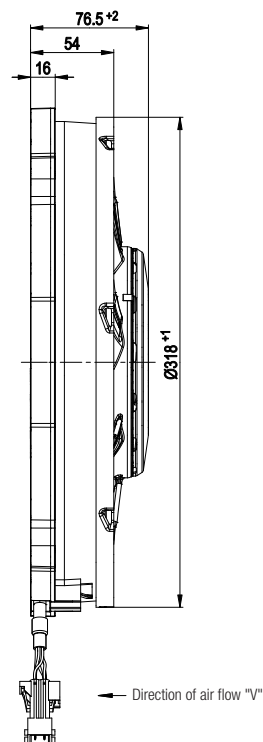
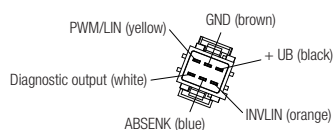
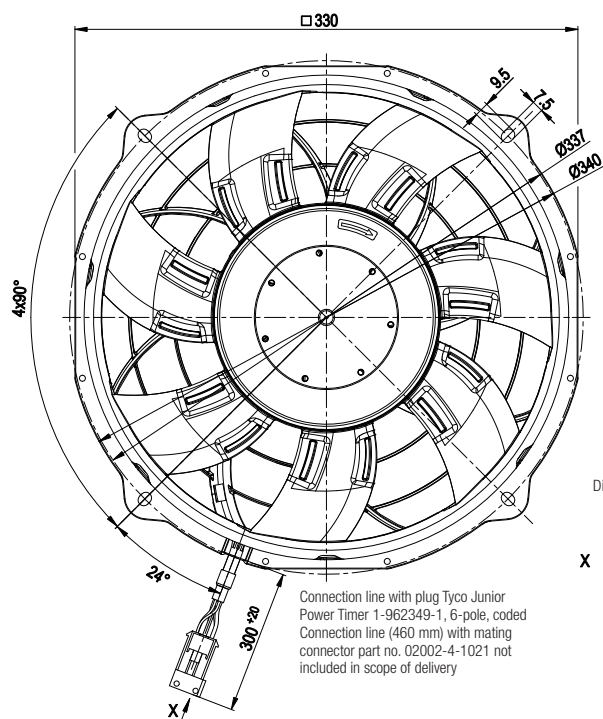
Suction-side noise levels:  $L_{wA}$  as  
per ISO 13347,  $L_pA$  measured at  
1m distance to fan axis.

The values given are valid  
under the measuring conditions  
mentioned and may vary according  
to the actual installation situation.

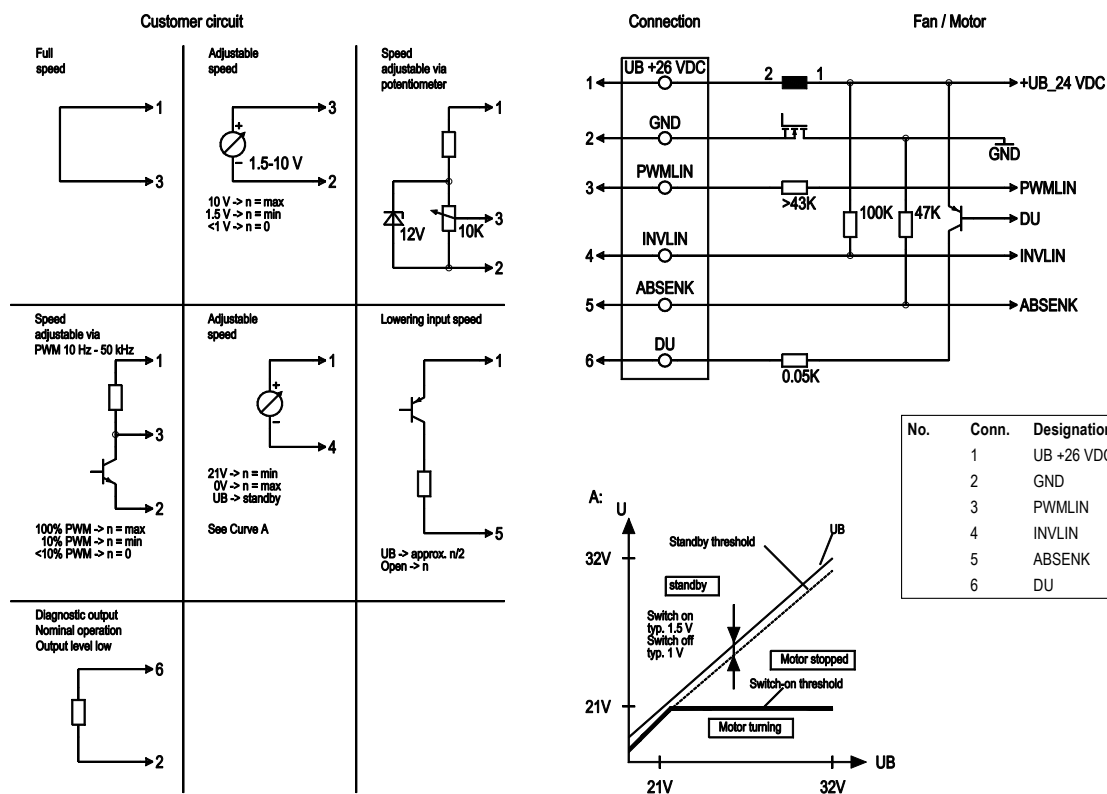
With any deviation to the standard  
set-up, the specific values have  
to be checked and reviewed once  
installed or fitted.

For detailed information on the  
measuring set-up, please contact  
ebm-papst.

|   | n<br>rpm | Pe<br>W | I<br>A | LpA <sub>in</sub><br>dB(A) | LwA <sub>in</sub><br>dB(A) |
|---|----------|---------|--------|----------------------------|----------------------------|
| 1 | 3160     | 205     | 7.9    | 74                         | 82                         |
| 2 | 3155     | 216     | 8.3    | 73                         | 82                         |
| 3 | 3085     | 240     | 9.2    | 73                         | 81                         |
| 4 | 2965     | 244     | 9.4    | 73                         | 80                         |



## Connection screen



| No. | Conn.  | Designation | Function / assignment                         |
|-----|--------|-------------|-----------------------------------------------|
| 1   | UB     | +26 VDC     | Power supply 26 VDC                           |
| 2   | GND    |             | Power supply GND, reference ground            |
| 3   | PWMLIN |             | Analogue voltage control input 0 -10 V or PWM |
| 4   | INVLIN |             | Control input, inverse linear                 |
| 5   | ABSENK |             | Lowering input                                |
| 6   | DU     |             | Diagnostic output                             |