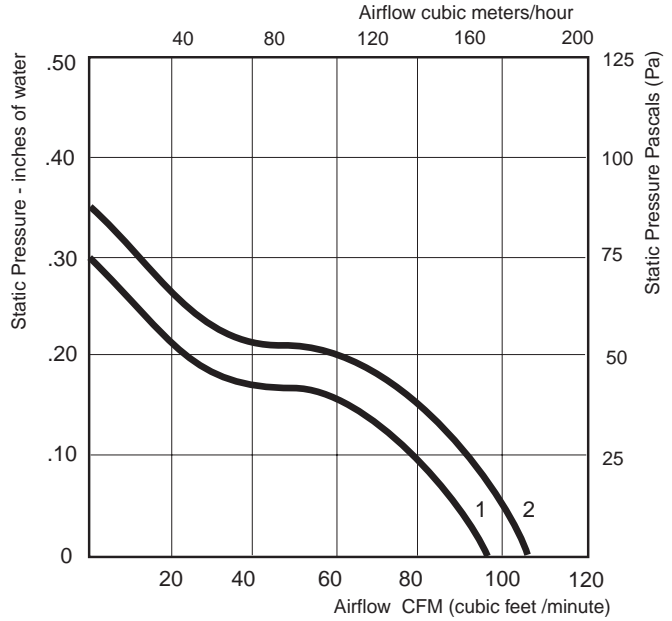
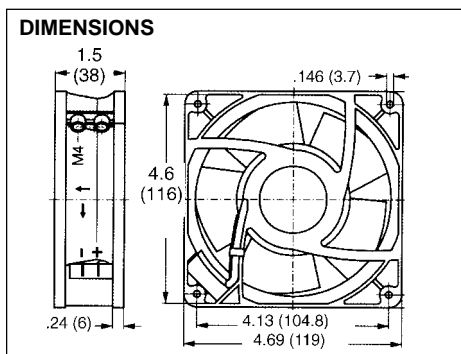


119 x 38 mm (4.7" X 1.5") Brushless DC

4100 Series



HIGH PERFORMANCE
SINTEC
 SLEEVE BEARING SYSTEM

4.69" X 4.96" X 1.50" Brushless DC, Metal housing, Plastic Impeller, Air Intake – Over Struts

| Curve | PART NUMBER | Type of Bearing | DC Volts | Voltage Range | CFM @ 0" | Watts | Temp. dBA | Temp. Max °C | Wgt. (oz) | Features | Approvals* | | |
|-------|----------------|-----------------|----------|---------------|----------|-------|-----------|--------------|-----------|------------------------|------------|-----|-----|
| | | | | | | | | | | | UL | CSA | VDE |
| 1 | 4182NGX | Sleeve | 12 | 7 - 15 | 3.5 | 94 | 44 | 75 | 14 | .110" x .02" Terminals | ✓ | ✓ | ✓ |
| 2 | 4182NX | Ball | 12 | 7 - 15 | 4.5 | 106 | 49 | 75 | 14 | .110" x .02" Terminals | ✓ | ✓ | ✓ |
| 1 | 4184NGX | Sleeve | 24 | 12 - 30 | 3.5 | 94 | 44 | 75 | 14 | .110" x .02" Terminals | ✓ | ✓ | ✓ |
| 2 | 4184NX | Ball | 24 | 12 - 29 | 4.5 | 106 | 49 | 75 | 14 | .110" x .02" Terminals | ✓ | ✓ | ✓ |
| 1 | 4188NXM | Ball | 48 | 36 - 56 | 3.5 | 94 | 44 | 75 | 14 | .110" x .02" Terminals | ✓ | ✓ | ✓ |
| 1 | 4105GX | Sleeve | 5 | 4.5 - 5.5 | 4.0 | 94 | 44 | 72 | 17 | .110" x .02" Terminals | – | – | – |

* UL yellow card E38324, CSA file 27697, VDE file 8324

| | | | | |
|---|------------------|--|--------------------|---|
| CONSTRUCTION MOUNTING & CONNECTION | Mounting: | From either face using four .146" (3.7 mm) holes | Connection: | Terminals two flat pins: .110" x .02" (2.8 x .5 mm) |
| | Weight: | 14 ounces (390g) except 4105GX | Options: | Hall Effect monitor |
| | Housing: | Metal with plastic impeller | | |

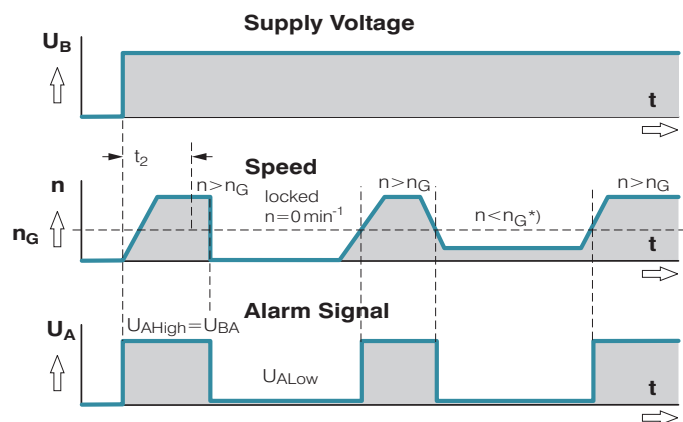
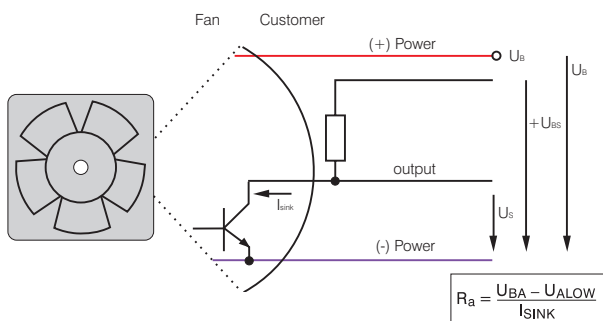


- Alarm signal for speed monitoring.
- Signal output via open collector.
- The fan emits a high continuous signal during trouble-free operation within the permissible voltage range.
- Low signal when speed limit is not reached.
- After elimination of fault, the fan returns to its desired speed; the alarm signal reverts to high.

| Alarm signal-data | Alarm output-voltage $U_{A,Low}$ | Condition: | Condition: $I_{SINK} =$ | Alarm output-voltage $U_{A,High}$ | Condition: | Condition: I_{SOURCE} | Alarm operating-voltage $U_{BA,max}$ | Max. permissible Sink current | Alarm delay time t_d | Condition: | Speed limit n_G | Fan description |
|-------------------|----------------------------------|------------|-------------------------|-----------------------------------|------------|-------------------------|--------------------------------------|-------------------------------|------------------------|------------|-------------------|-----------------|
| Type | V DC | | mA | V DC | | mA | V DC | mA | S | | min^{-1} | Page |
| 8318 /17 | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1500 ± 100 | 35 |
| 8318 /17 H | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1500 ± 100 | 35 |
| 3312 /17 | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1500 ± 100 | 39 |
| 3314 /17 | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1500 ± 100 | 39 |
| 3318 /17 H | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1500 ± 100 | 39 |
| 4318 /17 M | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1150 ± 100 | 44 |
| 4318 /17 | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 850 ± 100 | 44 |
| 4214 /17 | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1150 ± 100 | 47 |
| 4184 N /17 X | ≤ 0.4 | $n < n_G$ | 2 | 60 | $n > n_G$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1500 ± 100 | 48 |

Attention: With these fan specials, deviations as regards temperature range, voltage range and power consumption are possible compared with standard fans.

Electrical connection



All voltages measured to ground.
 External load resistance R_a from U_A to U_{BA} required.
 With VARIOFANS with external temperature sensor for controlling the motor speed, the NTC sensor is not included in the scope of delivery.
 Temperature sensor LZ 370, see Accessories.

t_2 = Alarm signal suppression during start-up
 * $n < n_G$ by braking or blocking.

Available on request:

- With integrated signal latching for subsequent recognition of short-time faults.
- Alarm circuit open collector or TTL.
- Galvanically isolated for maximum device safety;
Defects in the power circuit do not affect the alarm circuit.

| Alarm signal-data | Alarm output-voltage $U_{A,Low}$ | Condition: | Condition: $I_{sink} =$ | Alarm output-voltage $U_{A,High}$ | Condition: | Condition: $I_{source} =$ | Alarm operating-voltage $U_{BA,max}$ | Max. permissible Sink current | Alarm delay-time t_d | Condition: | Speed limit n_c | Fan description |
|---------------------|----------------------------------|------------|-------------------------|-----------------------------------|------------|---------------------------|--------------------------------------|-------------------------------|------------------------|------------|-------------------|-----------------|
| Type | V DC | | mA | V DC | | mA | V DC | mA | S | | min^{-1} | Page |
| 4312/17 MV VARIOFAN | ≤ 0.4 | $n < nG$ | 2 | 60 | $n > nG$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1500 ± 100 | 45 |
| 4312/17 T VARIOFAN | ≤ 0.4 | $n < nG$ | 2 | 60 | $n > nG$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1500 ± 100 | 45 |
| 4314/17 V VARIOFAN | ≤ 0.4 | $n < nG$ | 2 | 60 | $n > nG$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1150 ± 100 | 45 |
| 4318/17 V VARIOFAN | ≤ 0.4 | $n < nG$ | 2 | 60 | $n > nG$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 850 ± 100 | 45 |
| 5112 N/17 | ≤ 0.4 | $n < nG$ | 2 | 60 | $n > nG$ | 0 | ≤ 60 | 20 | ≤ 15 | * | 1250 ± 50 | 54 |
| 7214 N/17 | ≤ 0.4 | $n < nG$ | 2 | 60 | $n > nG$ | 0 | ≤ 60 | 15 | ≤ 15 | * | 1330 ± 60 | 57 |
| DV 6224/17 | ≤ 0.4 | $n < nG$ | 2 | 60–28 | $n > nG$ | 0 | ≤ 60 | 10 | 10 ± 4 | * | 1900 ± 100 | 61 |

* After switching on U_b **Attention:**

With these fan specials, deviations as regards temperature range, voltage range and power consumption are possible compared with standard fans.

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