



## OD8015 Series

DC Fan - 12V, 24V  
80 x 15mm (3.15 x .59in)



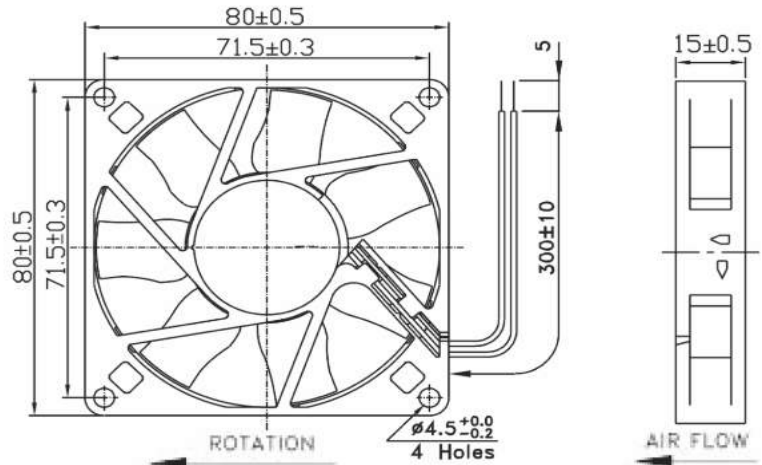
| Model #        | Pg # | Voltage | RPM  | CFM | Noise Level | Max Static Pressure  |
|----------------|------|---------|------|-----|-------------|----------------------|
| OD8015-12H     | 2    | 12 VDC  | 3200 | 30  | 33 dB       | .11 H <sub>2</sub> O |
| OD8015-12M     | 2    | 12 VDC  | 2500 | 23  | 26 dB       | .07 H <sub>2</sub> O |
| OD8015-12L     | 2    | 12 VDC  | 2000 | 20  | 20 dB       | .05 H <sub>2</sub> O |
| OD8015-24H     | 2    | 24 VDC  | 3200 | 30  | 33 dB       | .11 H <sub>2</sub> O |
| OD8015-24M     | 2    | 24 VDC  | 2500 | 23  | 26 dB       | .07 H <sub>2</sub> O |
| OD8015-12HB01A | 3    | 12 VDC  | 3200 | 30  | 33 dB       | .12 H <sub>2</sub> O |
| OD8015-12HB02A | 4    | 12 VDC  | 3200 | 30  | 33 dB       | .12 H <sub>2</sub> O |
| OD8015-12MB02A | 5    | 12 VDC  | 2440 | 22  | 25 dB       | .08 H <sub>2</sub> O |
| OD8015-24HB02A | 6    | 24 VDC  | 3200 | 30  | 33 dB       | .12 H <sub>2</sub> O |

**\*\* For some models and part numbers, minimum order quantities may apply.**

# OD8015 Series



DC Fan - 12, 24V  
80x15mm (3.15"x 0.59")



|                       |                                                              |                                                                                                                                                                                                                                                                       |  |
|-----------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Frame & Impeller      | PBT, UL94V-0 plastic                                         | <b>Available Options:</b><br>Tachometer<br>Alarm<br>5V<br><br><u>Life Expectancy (L10)</u><br>Ball - 60,000 hrs (45C)<br>Sleeve - 30,000 hrs (45C)<br><br><u>Operating Temperature</u><br>Ball: -20C ~ +80C<br>Sleeve: -10C ~ +50C<br><br>Weight: ~0.14 lbs<br><br>m1 |  |
| Connection            | 2x Lead wires 24AWG                                          |                                                                                                                                                                                                                                                                       |  |
| Motor                 | Brushless DC, auto restart, impedance and polarity protected |                                                                                                                                                                                                                                                                       |  |
| Bearing System        | Ball bearing or Sleeve                                       |                                                                                                                                                                                                                                                                       |  |
| Insulation Resistance | 10M ohm between leadwire and frame (500VDC)                  |                                                                                                                                                                                                                                                                       |  |
| Dielectric Strength   | 1 minute at 500 VAC, max leakage < 500 MicroAmp              |                                                                                                                                                                                                                                                                       |  |
| Storage Temperature   | -40C ~ +80C                                                  |                                                                                                                                                                                                                                                                       |  |

| Model Number | Speed (RPM) | Airflow (CFM) | Noise (dB) | Volts DC | Voltage Range (VDC) | Amps | Max. Static Pressure ("H <sub>2</sub> O) |
|--------------|-------------|---------------|------------|----------|---------------------|------|------------------------------------------|
| OD8015-12H*  | 3200        | 30            | 33         | 12       | 10.8~13.2           | 0.18 | 0.11                                     |
| OD8015-12M*  | 2500        | 23            | 26         | 12       | 10.8~13.2           | 0.12 | 0.07                                     |
| OD8015-12L*  | 2000        | 20            | 20         | 12       | 10.8~13.2           | 0.09 | 0.05                                     |
| OD8015-24H*  | 3200        | 30            | 33         | 24       | 22.6~26.4           | 0.10 | 0.11                                     |
| OD8015-24M*  | 2500        | 23            | 26         | 24       | 22.6~26.4           | 0.08 | 0.07                                     |

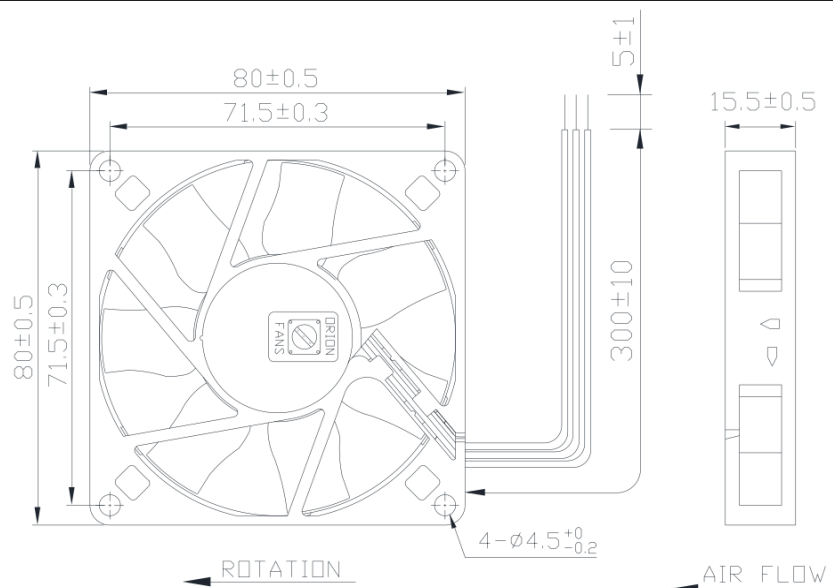
\* Indicate "B" for ball bearing or "S" for sleeve bearing

OD8015-12HB01A

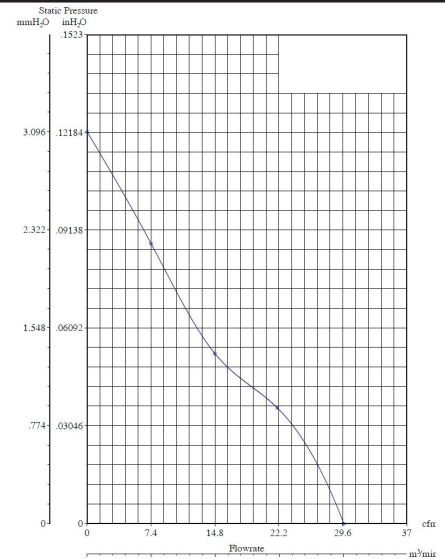


DC Fan, 12VDC

80x15mm (3.15x.59in)



|                       |                                                 |                                                                                                                                                                                              |
|-----------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <b>Available Options</b><br>IP55<br>Other speeds and voltages<br>Alarm<br>PWM<br><br>*Connection:<br>Wire Leads - UL1007<br>24AWG Red(+), Black (-),<br>White Tachometer<br><br>Weight: 62 g |
| Connection            | 3x Lead wires *                                 |                                                                                                                                                                                              |
| Motor                 | Brushless DC, auto restart, polarity protected. |                                                                                                                                                                                              |
| Bearing System        | Dual ball bearing                               |                                                                                                                                                                                              |
| Insulation Resistance | Min. 10M at 500VDC                              |                                                                                                                                                                                              |
| Dielectric Strength   | 1 second at 500VAC max leakage 500 microamp     |                                                                                                                                                                                              |
| Temperature Range     | -10C ~ +70C                                     |                                                                                                                                                                                              |
| Storage Temperature   | -40C ~ +80C                                     |                                                                                                                                                                                              |
| Life (L10)            | 70,000 hours (40C)                              |                                                                                                                                                                                              |

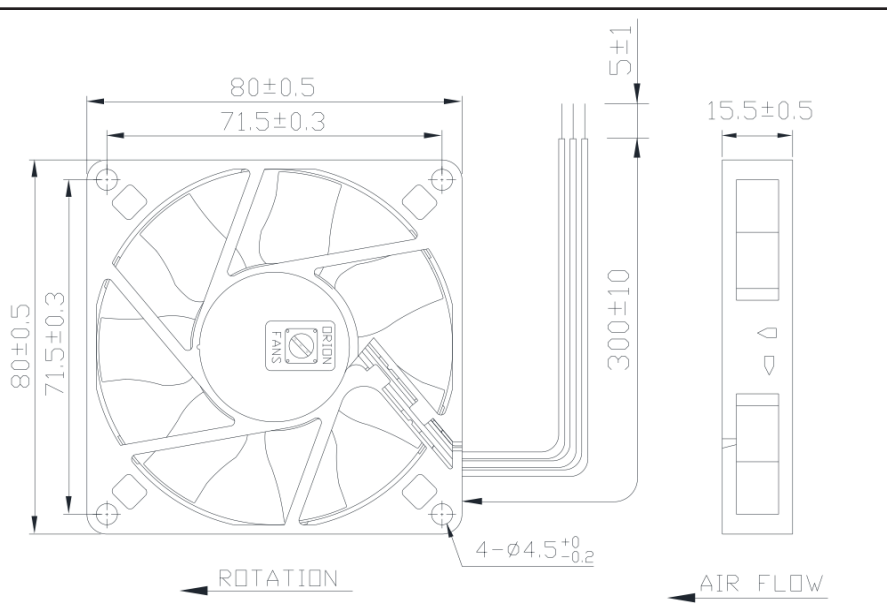


|                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number         | OD8015-12HB01A        | <p>Output of locked signal<br/> *Output type.....Open collector type<br/> *Electrical design suggestion:<br/> (External signal function design is decided by customer)</p> <p>*Transistor Q1 at "ON" position<br/> Collector current.....<math>I_c = 10\text{mA Max}</math><br/> Saturation Voltage.....<math>V_{ce} = 1.0\text{V Max}</math><br/> (Between Collector and Emitter at <math>I_c = 10\text{mA}</math>)<br/> *Transistor Q1 at "OFF" position<br/> Release Voltage.....<math>V_{ce} = 15\text{V Max}</math></p> <p>*Output waveform</p> <p>Supply voltage</p> <p>Fan rotation</p> <p>Fan current</p> <p>Locked signal</p> |
| Part Number          | 181141221             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nominal Voltage      | 12 VDC                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Voltage Range        | 7~13.2 VDC            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nominal Current      | .11 A                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Power          | 2.28 Watts            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Speed (RPM)    | 3200                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Airflow (CFM)        | 30                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Noise Level (dB)     | 33                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Max. Static Pressure | .12 "H <sub>2</sub> O |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# OD8015-12HB02A



DC Fan, 12VDC  
80x15mm (3.15x.59in)



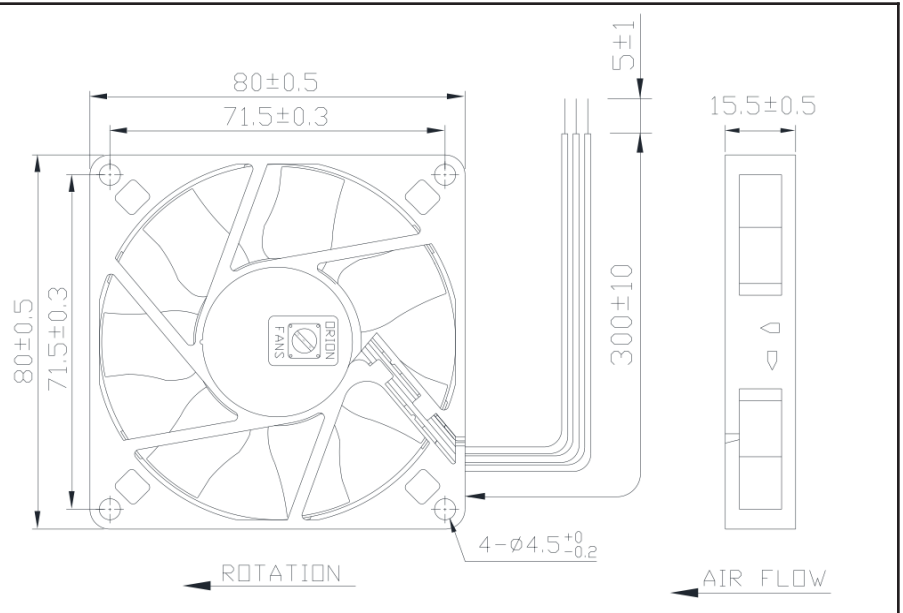
|                       |                                                 |                                                                                                                                                                                                                |  |
|-----------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <p><u>Available Options</u></p> <p>IP55<br/>Other speeds and voltages<br/>Tachometer<br/>PWM</p> <p>*Connection:<br/>Wire Leads - UL1007<br/>24AWG Red(+), Black (-),<br/>Yellow Alarm</p> <p>Weight: 62 g</p> |  |
| Connection            | 3x Lead wires *                                 |                                                                                                                                                                                                                |  |
| Motor                 | Brushless DC, auto restart, polarity protected. |                                                                                                                                                                                                                |  |
| Bearing System        | Dual ball bearing                               |                                                                                                                                                                                                                |  |
| Insulation Resistance | Min. 10M at 500VDC                              |                                                                                                                                                                                                                |  |
| Dielectric Strength   | 1 second at 500VAC max leakage 500 microamp     |                                                                                                                                                                                                                |  |
| Temperature Range     | -10C ~ +70C                                     |                                                                                                                                                                                                                |  |
| Storage Temperature   | -40C ~ +80C                                     |                                                                                                                                                                                                                |  |
| Life (L10)            | 70,000 hours (40C)                              |                                                                                                                                                                                                                |  |

|                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number         | OD8015-12HB02A        | <p>Output of locked signal<br/>*Output type.....Open collector type<br/>*Electrical design suggestion:<br/>(External signal function design is decided by customer)</p> <p>*Transistor Q1 at "ON" position<br/>Collector current.....I<sub>c</sub>=5mA Max<br/>Saturation Voltage.....V<sub>ce</sub>=1.0V Max<br/>(Between Collector and Emitter at I<sub>c</sub>=5mA)<br/>*Transistor Q1 at "OFF" position<br/>Release Voltage.....V<sub>ce</sub>=15V Max</p> <p>*Output waveform</p> |
| Part Number          | 181141231             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nominal Voltage      | 12 VDC                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Voltage Range        | 7~13.2 VDC            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nominal Current      | .10 A                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Power          | 2.28 Watts            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Rated Speed (RPM)    | 3200                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Airflow (CFM)        | 30                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Noise Level (dB)     | 33                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Max. Static Pressure | .12 "H <sub>2</sub> O |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# OD8015-12MB02A



DC Fan, 12VDC  
80x15mm (3.15x.59in)



|                       |                                                 |                                                                                                                                                                                               |  |
|-----------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <b>Available Options</b><br>IP55<br>Other speeds and voltages<br>Tachometer<br>PWM<br><br>*Connection:<br>Wire Leads - UL1007<br>24AWG Red(+), Black (-),<br>Yellow Alarm<br><br>Weight: 62 g |  |
| Connection            | 3x Lead wires *                                 |                                                                                                                                                                                               |  |
| Motor                 | Brushless DC, auto restart, polarity protected. |                                                                                                                                                                                               |  |
| Bearing System        | Dual ball bearing                               |                                                                                                                                                                                               |  |
| Insulation Resistance | Min. 10M at 500VDC                              |                                                                                                                                                                                               |  |
| Dielectric Strength   | 1 second at 500VAC max leakage 500 microamp     |                                                                                                                                                                                               |  |
| Temperature Range     | -10C ~ +70C                                     |                                                                                                                                                                                               |  |
| Storage Temperature   | -40C ~ +80C                                     |                                                                                                                                                                                               |  |
| Life (L10)            | 70,000 hours (40C)                              |                                                                                                                                                                                               |  |

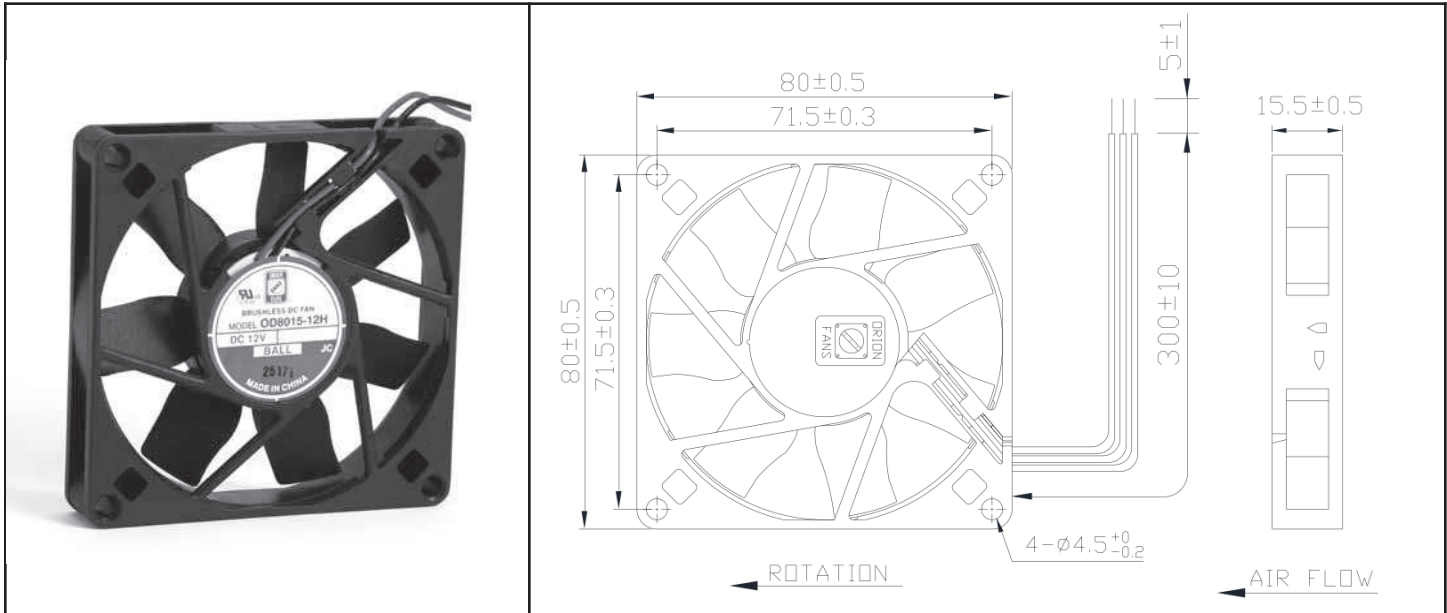
|                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number         | OD8015-12MB02A        | <b>Output of locked signal</b><br>*Output type.....Open collector type<br>*Electrical design suggestion:<br>(External signal function design is decided by customer)<br><br><br>*Transistor Q1 at "ON" position<br>Collector current.....I <sub>c</sub> =5mA Max<br>Saturation Voltage.....V <sub>ce</sub> =1.0V Max<br>(Between Collector and Emitter at I <sub>c</sub> =5mA)<br>*Transistor Q1 at "OFF" position<br>Release Voltage.....V <sub>ce</sub> =15V Max<br><br>*Output waveform<br>Supply voltage<br>Fan rotation<br>Fan current<br>Locked signal |
| Part Number          | 181131231             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nominal Voltage      | 12 VDC                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Voltage Range        | 7~13.2 VDC            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nominal Current      | .05 A                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rated Power          | 1.8 Watts             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rated Speed (RPM)    | 2440                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Airflow (CFM)        | 22                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Noise Level (dB)     | 25                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. Static Pressure | .08 "H <sub>2</sub> O |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



# OD8015-24HB02A



DC Fan, 24VDC  
80x15mm (3.15x.59in)



|                       |                                                 |                                                                                                                                                                                            |  |
|-----------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Frame & Impeller      | PBT, UL94V-0 plastic                            | <b>Available Options</b><br>IP55<br>Other speeds and voltages<br>Tachometer<br>PWM<br><br>*Connection:<br>Wire Leads - UL1007<br>24AWG Red(+), Black (-), Yellow Alarm<br><br>Weight: 62 g |  |
| Connection            | 3x Lead wires *                                 |                                                                                                                                                                                            |  |
| Motor                 | Brushless DC, auto restart, polarity protected. |                                                                                                                                                                                            |  |
| Bearing System        | Dual ball bearing                               |                                                                                                                                                                                            |  |
| Insulation Resistance | Min. 10M at 500VDC                              |                                                                                                                                                                                            |  |
| Dielectric Strength   | 1 second at 500VAC max leakage 500 microamp     |                                                                                                                                                                                            |  |
| Temperature Range     | -10C ~ +70C                                     |                                                                                                                                                                                            |  |
| Storage Temperature   | -40C ~ +80C                                     |                                                                                                                                                                                            |  |
| Life (L10)            | 70,000 hours (40C)                              |                                                                                                                                                                                            |  |

|                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number         | OD8015-24HB02A        | <p>Output of locked signal<br/> *Output type.....Open collector type<br/> *Electrical design suggestion:<br/> (External signal function design is decided by customer)</p> <p>*Transistor Q1 at "ON" position<br/> Collector current.....<math>I_c=10\text{mA Max}</math><br/> Saturation Voltage.....<math>V_{ce}=1.0\text{V Max}</math><br/> (Between Collector and Emitter at <math>I_c=10\text{mA}</math>)<br/> *Transistor Q1 at "OFF" position<br/> Release Voltage.....<math>V_{ce}=30\text{V Max}</math></p> <p>*Output waveform</p> |
| Part Number          | 181241231             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nominal Voltage      | 24 VDC                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Voltage Range        | 17~26.4 VDC           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nominal Current      | .08 A                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rated Power          | 3.36 Watts            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rated Speed (RPM)    | 3200                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Airflow (CFM)        | 30                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Noise Level (dB)     | 33                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. Static Pressure | .12 "H <sub>2</sub> O |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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