FANSAC & DC

• AC and DC Types:
  12 and 24VDC
  100-125VAC

• Sizes Include:
  40x40mm
  60x60mm
  80x80mm
  92x92mm
  120x120mm

• Ball Bearings
• Locked Rotor Protection
• All are RoHS Compliant
• Most are UL Recognized
• Fan Cords, Fan Filters and Metal Fan Guard Accessories
Fan, DC Types, 40 x 40mm

Features
- High Speed
- Ball Bearings
- 26 AWG Red (+) and Black (−) Leads
- 11.8" (300mm) Lead Length

DC OPERATED

<table>
<thead>
<tr>
<th></th>
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<td>77-4010D12</td>
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<td>0.10A</td>
<td>1.24</td>
<td>7000</td>
<td>7.73</td>
<td>36dB(A)</td>
<td>F1a</td>
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<td>7500</td>
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<td>35dB(A)</td>
<td>F1b</td>
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ACCESSORIES

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<thead>
<tr>
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<th>DESCRIPTION</th>
<th>NTE TYPE NO.</th>
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<tbody>
<tr>
<td>40 X 40mm</td>
<td>Fan Guard, Metal</td>
<td>77-MG40</td>
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<tr>
<td>40 X 40mm</td>
<td>Fan Filter, 3-Piece w/Cover</td>
<td>77-F40</td>
</tr>
</tbody>
</table>

Specifications

Electrical Characteristics
- Insulation Resistance: 10MΩ Min. (at 500VDC) between frame and positive terminal
- Dielectric Strength: 500VAC, 1 minute; 600VAC, 1 sec at 5mA Max. between frame and positive terminal
- Life Expectancy: Approx. 70000 hours at rated voltage, +40°C, 15% to 65% RH

Mechanical Characteristics
- Frame: Thermoplastic, Black, UL94V−0
- Impeller: Thermoplastic, Black, UL94V−0
- Bearing: 2 Ball Bearings
- Weight: Approx. 16g (10mm); 29g (20mm)

Environmental Characteristics
- Operating Temperature: −10°C to +70°C
- Storage Temperature: −40°C to +75°C
- Operating Humidity: 35% to 85% RH
- Storage Humidity: 35% to 85% RH

Protection
- Polarity: Damage will not occur for up to 10 minutes with positive and negative leads connected in reverse.
- Locked Rotor: Within 72 hours of a rotor locking condition, at the rated voltage and operating temperature, the impedance of the motor winding will protect the motor from damage.
Fan, DC Types, 60 x 60mm

Features
- High Speed
- Ball Bearings
- 24 AWG Red (+) and Black (−) Leads
- 11.8" (300mm) Lead Length

**DC OPERATED**

<table>
<thead>
<tr>
<th>NTE Type No.</th>
<th>Rated Voltage</th>
<th>Max. Input Current</th>
<th>Max. Input Power (W)</th>
<th>Speed @10% (RPM)</th>
<th>Max Air Flow (CFM)</th>
<th>Max Acoustical Noise</th>
<th>Diag No.</th>
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<td>39dB(A)</td>
<td>F2a</td>
</tr>
<tr>
<td>77-6020D12</td>
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<td>2.21</td>
<td>4200</td>
<td>22.43</td>
<td>39dB(A)</td>
<td>F2a</td>
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<tr>
<td>77-6020D24#</td>
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<td>4200</td>
<td>22.43</td>
<td>39dB(A)</td>
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<td>77-6025D12</td>
<td>12</td>
<td>0.16A</td>
<td>1.93</td>
<td>4000</td>
<td>19.25</td>
<td>39dB(A)</td>
<td>F2a</td>
</tr>
<tr>
<td>77-6025D24</td>
<td>24</td>
<td>0.16A</td>
<td>3.86</td>
<td>4000</td>
<td>19.25</td>
<td>39dB(A)</td>
<td>F2a</td>
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</table>

*These devices do not meet UL approval!

**ACCESSORIES**

<table>
<thead>
<tr>
<th>FAN TYPE</th>
<th>DESCRIPTION</th>
<th>NTE TYPE NO.</th>
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<tbody>
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<td>60 x 60mm</td>
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<td>60 x 60mm</td>
<td>Fan Filter, 3-Piece w/cover</td>
<td>77-FF60</td>
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</table>

**Specifications**

**Electrical Characteristics**
- Insulation Resistance: $10^6$ Min. (at 500VDC) between frame and positive terminal
- Dielectric Strength: 500VAC, 1 minute; 600VAC, 1 sec at 5mA Max. between frame and positive terminal
- Life Expectancy: Approx. 70000 hours at rated voltage, +40°C, 15% to 65% RH

**Mechanical Characteristics**
- Frame: Thermoplastic, Black, UL94V−0
- Impeller: Thermoplastic, Black, UL94V−0
- Bearing: 2 Ball Bearings
- Weight: Approx. 34g (15mm); 50g (20mm); 62g (25mm)

**Environmental Characteristics**
- Operating Temperature: −10°C to +70°C
- Storage Temperature: −40°C to +75°C
- Operating Humidity: 35% to 85% RH
- Storage Humidity: 35% to 85% RH

**Protection**
- Polarity: Damage will not occur for up to 10 minutes with positive and negative leads connected in reverse.
- Locked Rotor: Within 72 hours of a rotor locking condition, at the rated voltage and operating temperature, the impedance of the motor winding will protect the motor from damage.
Features
- High Speed
- Ball Bearings
- Terminal Types – “T” Suffix
- 24 AWG Red (+) and Black (−) Leads – DC Types
- 22 AWG Black Leads – AC Types
- 11.8” (300mm) Lead Length

**Fan, AC & DC Types, 80 x 80mm**

**Features**
- High Speed
- Ball Bearings
- Terminal Types – “T” Suffix
- 24 AWG Red (+) and Black (−) Leads – DC Types
- 22 AWG Black Leads – AC Types
- 11.8” (300mm) Lead Length

### Specifications

**Electrical Characteristics**
- **Insulation Resistance:** 10MΩ Min. (at 500VDC) between frame and positive terminal
- **Dielectric Strength:**
  - DC Types: 500VAC, 1 minute; 600VAC, 1 sec at 5mA Max. between frame and positive terminal
  - AC Types: 1500VAC, 1 minute; 1800VAC, 1 sec at 5mA Max. between frame and positive terminal
- **Life Expectancy:**
  - DC Types: Approx. 70,000 hrs at rated voltage, +40°C, 15% to 65% RH
  - AC Types: Approx. 50,000 hrs at rated voltage, +25°C, 15% to 65% RH

**Mechanical Characteristics**
- **Frame:**
  - DC Types: Thermoplastic, Black, UL94V-0
  - AC Types: Die-Cast Aluminum, Black
- **Impeller:** Thermoplastic, Black, UL94V-0
- **Bearing:**
  - DC Types: 2 Ball Bearings
  - AC Types: Ball Bearing
- **Weight:**
  - DC Types: Approx. 54g (15mm); 76g (25mm)
  - AC Types: Approx. 208g (25mm); 340g (38mm)

**Environmental Characteristics**
- **Operating Temperature:** −10°C to +70°C
- **Storage Temperature:** −40°C to +75°C
- **Operating Humidity:** 35% to 85% RH
- **Storage Humidity:** 35% to 85% RH

**Protection**
- **Polarity (DC Types ONLY):** Damage will not occur for up to 10 minutes with positive and negative leads connected in reverse.
- **Locked Rotor:** Within 72 hours of a rotor locking condition, at the rated voltage and operating temperature, the impedance of the motor winding will protect the motor from damage.
Fan, AC Types, 92 x 92mm

Features
- High Speed
- Ball Bearing
- Terminal Types – “T” Suffix
- 22 AWG Black Leads
- 11.8” (300mm) Lead Length

Features
- High Speed
- Ball Bearing
- Terminal Types – “T” Suffix
- 22 AWG Black Leads
- 11.8” (300mm) Lead Length

AC OPERATED

<table>
<thead>
<tr>
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<td>1900</td>
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<td>1900</td>
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<td>266BA</td>
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ACCESSORIES

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<td>3 Piece w/cover</td>
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<td>77-FC12</td>
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<td>Fan Cord, 24”, 45° Blunt Cut</td>
<td>77-FC24</td>
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<td>Fan Cord, 36”, 45° Blunt Cut</td>
<td>77-FC36</td>
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<td>Fan Cord, 48”, 45° Blunt Cut</td>
<td>77-FC48</td>
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<tr>
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<td>Fan Cord, 72”, 45° Blunt Cut</td>
<td>77-FL72</td>
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<td></td>
<td>Fan Cord, 12”, 45° Blunt Cut</td>
<td>77-FC12</td>
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<td>Fan Cord, 24”, 45° Blunt Cut</td>
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<td>Fan Cord, 36”, 45° Blunt Cut</td>
<td>77-FC36</td>
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<td>Fan Cord, 48”, 45° Blunt Cut</td>
<td>77-FC48</td>
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<tr>
<td></td>
<td>Fan Cord, 72”, 45° Blunt Cut</td>
<td>77-FL72</td>
</tr>
</tbody>
</table>

Specifications

Electrical Characteristics
- Insulation Resistance: 10MΩ Min. (at 500VDC) between frame and positive terminal
- Dielectric Strength: 1500VAC, 1 minute; 1800VAC, 1 sec at 5mA Max. between frame and positive terminal
- Life Expectancy: Approx. 50000 hours at rated voltage, +25°C, 15% to 65% RH

Mechanical Characteristics
- Frame: Die-Cast Aluminum, Black
- Impeller: Thermoplastic, Black, UL94V-0
- Bearing: Ball Bearing
- Weight: Approx. 240g

Environmental Characteristics
- Operating Temperature: -10°C to +70°C
- Storage Temperature: -40°C to +75°C
- Operating Humidity: 35% to 85% RH
- Storage Humidity: 35% to 85% RH

Protection
- Locked Rotor: Within 72 hours of a rotor locking condition, at the rated voltage and operating temperature, the impedance of the motor winding will protect the motor from damage.
Fan, AC & DC Types, 120 x 120mm

Features
- High Speed
- Ball Bearings
- Terminal Types – “T” Suffix
- 24 AWG Red (+) and Black (−) Leads – DC Types
- 22 AWG Black Leads – AC Types
- 11.8” (300mm) Lead Length

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DC OPERATED

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<td>77-12025D12</td>
<td>12</td>
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<td>77-12025D24</td>
<td>24</td>
<td>0.40A</td>
<td>9.6</td>
<td>2400</td>
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<td>3750</td>
<td>121.53</td>
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<td>77-12032D24</td>
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<td>108.94</td>
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<td>138.49</td>
<td>54dB(A)</td>
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AC OPERATED

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<td>77-12025A120</td>
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<td>39dB(A)</td>
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<td>0.17A</td>
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ACCESSORIES

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<td>77-MG1212</td>
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<td>Fan Filter, 3-Piece w/Over</td>
<td>77-FV126</td>
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<td>77-FC12</td>
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<td>Fan Cord, 24&quot;, 45° Blunt Cut</td>
<td>77-FL24</td>
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<tr>
<td>120 x 120mm, Terminal Type</td>
<td>Fan Cord, 36&quot;, 45° Blunt Cut</td>
<td>77-FC36</td>
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<tr>
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<td>Fan Cord, 48&quot;, 45° Blunt Cut</td>
<td>77-F48</td>
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<tr>
<td>120 x 120mm, Terminal Type</td>
<td>Fan Cord, 72&quot;, 45° Blunt Cut</td>
<td>77-FL72</td>
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</table>

Specifications

Electrical Characteristics:
- Insulation Resistance: 10MΩ Min. (at 500VDC) between frame and positive terminal
- Dielectric Strength:
  - DC Types: 500VAC, 1 minute; 600VAC, 1 sec at 5mA Max. between frame and positive terminal
  - AC Types: 1500VAC, 1 minute; 1800VAC, 1 sec at 5mA Max. between frame and positive terminal
- Life Expectancy:
  - DC Types: Approx. 70000 hrs at rated voltage, +40°C, 15% to 65% RH
  - AC Types: Approx. 50000 hrs at rated voltage, +25°C, 15% to 65% RH

Mechanical Characteristics
- Frame:
  - DC Types: Thermoplastic, Black, UL94V–0
  - AC Types: Die-Cast Aluminum, Black
- Impeller: Thermoplastic, Black, UL94V–0
- Bearing:
  - DC Types: 2 Ball Bearings
  - AC Types: Ball Bearing
- Weight:
  - DC Types: Approx. 164g (25mm); 250g (32mm); 290g (38mm)
  - AC Types: Approx. 370g (25mm); 500g (38mm)

Environmental Characteristics
- Operating Temperature: −10°C to +70°C
- Storage Temperature: −40°C to +75°C
- Operating Humidity: 35% to 85% RH
- Storage Humidity: 35% to 85% RH

Protection
- Polarity (DC Types ONLY): Damage will not occur for up to 10 minutes with positive and negative leads connected in reverse.
- Locked Rotor: Within 72 hours of a rotor locking condition, at the rated voltage and operating temperature, the impedance of the motor winding will protect the motor from damage.
**77–MG40**

Fan Guard, Metal

Features
- For 40mm x 40mm Fans

**77–MG60**

Fan Guard, Metal

Features
- For 60mm x 60mm Fans

**77–MG80**

Fan Guard, Metal

Features
- For 80mm x 80mm Fans

**77–MG92**

Fan Guard, Metal

Features
- For 92mm x 92mm Fans
**77–MG120**

Fan Guard, Metal

**Features**
- For 120mm x 120mm Fans

**77–FF40 thru 77–FF120**

Fan Filter, 3-Piece

**Contains:**
- 1 UL94–V0 Plastic Base (that attaches to the fan)
- 1 Nylon Fiber Synthetic Resin Filter
- 1 1 UL94–V0 Plastic Cover

**Features**
- 35PPI Rating

**Fan Applications:**
- 40mm x 40mm uses 77–FF40
- 60mm x 60mm uses 77–FF60
- 80mm x 80mm uses 77–FF80
- 92mm x 92mm uses 77–FF92
- 120mm x 120mm uses 77–FF120

**77–FC12 thru 77–FC72**

Fan Cord

**Features**
- Black Molded PVC Hood with Copper Terminal Connector
- Power Cable, Bar Copper 17*0.15 BC/2C, Black PVC Jacket
- (UL) SPT–1 60°C VW–1 22AWGX2C

**Cord Lengths:**
- 77–FC12 – 12 inches
- 77–FC24 – 24 inches
- 77–FC36 – 36 inches
- 77–FC48 – 48 inches
- 77–FC72 – 72 inches