SLIP RING ASSEMBLIES

STOCK SLIP RING ASSEMBLIES

SEPARATE ROTOR & BRUSH BLOCK ASSEMBLIES

0.50 Inch Diameter Thru Bore ................................................................. 1
1.00 Inch Diameter Thru Bore ................................................................... 2
1.50 Inch Diameter Thru Bore ................................................................. 3
2.00 Inch Diameter Thru Bore ................................................................. 4

SELF-CONTAINED ASSEMBLIES

0.50 Inch Diameter Thru Bore ................................................................. 5
1.00 Inch Diameter Thru Bore ................................................................... 6
1.50 Inch Diameter Thru Bore ................................................................. 7
2.00 Inch Diameter Thru Bore ................................................................. 8

TECHNICAL INFORMATION

Slip Ring Mounting Methods ..................................................................... 9
Slip Ring Wiring Methods, RPM Range, and Operating Environment ....... 10
Slip Ring Part Number Coding ................................................................. 11
Slip Ring Modifications ........................................................................... 12

CUSTOM SLIP RING ASSEMBLIES

General Information .................................................................................. 13

BRUSH ASSEMBLIES

Technical Information ................................................................................ 14, 15
Leaf Type .................................................................................................. 16, 17
Plunger Type ............................................................................................ 18, 19

SLIP RING SPECIFICATION

How to Specify a Slip Ring ........................................................................ 20
Slip Ring Specification Form ................................................................. 21

Designed and Manufactured By:

Fabricast, Inc.

MANUFACTURER OF SLIP RING ASSEMBLIES

P.O. BOX 3176, 2511 SEAMAN AVENUE, SOUTH EL MONTE, CALIFORNIA 91733

TELEPHONE: (626) 443-3247 • FAX: (626) 443-5594
E-MAIL: info@fabricast.com        WEB SITE: www.fabricast.com

© 2016 FABRICAST, INC.
**SLIP RING ASSEMBLIES**

**BEST COST • .502 INCH BORE • STOCK DELIVERY**

### Type 0908

- **P/N 0908-2BR-FAG180 pictured.**

### Type 0908

- **P/N 0908-2BR-FAG180 pictured.**

### Characteristics

**Current:**
- 5 amp standard.
- 10 amp optional.

**Voltage:**
- Up to 60 volts standard.
- Up to 1000 volts optional.
  (easily modified by increased ring to ring spacing upon request)

**Rings:**
- Solid Coin Silver Rings.

**Brushes:**
- Silver Graphite.
- Fabricast Grade FAG 180 (80% Ag – 20% C).
- 5 amp capacity with 2 brushes per ring (1 brush block).
- 10 amp capacity with 4 brushes per ring (2 brush blocks).
- Brush complement molded as unit with dialyl phthalate dielectric.

**Noise:**
- 10 Milliohms maximum dynamic resistance with 2 brushes per ring.
- 5 Milliohms maximum dynamic resistance with 4 brushes per ring.

**Hi-Pot:**
- 1000 VAC for 15 seconds.

**Rotor:**
- One piece aluminum sleeve.
- Ring complement molded as unit with dialyl phthalate dielectric.

### Rotor Leads:
- 5 amp leads – 20 AWG per MIL-W-16878 Type “E”.
- 10 amp leads – 16 AWG per MIL-W-16878 Type “E”.

### Options:
- 10 amp current carrying capacity.
- Hard vacuum compatible.
- Consult Fabricast for all available options.
- Consult Fabricast for optional brush grades and characteristics (see page 14).

### Complete Assembly Part Number Coding

- Specify fully when ordering:
  - Type
  - Number of Brushes per Ring
  - Brush Grade Number
  - Options

- X (2BR or 4BR)
- X (FAG180)
- X (10 amp, Vacuum, etc.)

For additional ordering information see page 11.

For Mounting and Wiring Methods, RPM Range, and Operating Environment see pages 9 & 10.
SLIP RING ASSEMBLIES

BEST COST • 1.002 INCH BORE • STOCK DELIVERY

STANDARD BRUSH BLOCK

- **ROTOR:**
  - Ring complement molded as unit with diallyl phthalate dielectric.
  - 5 Milliohms maximum dynamic resistance with 4 brushes per ring.
  - Brush complement molded as unit with diallyl phthalate dielectric.

- **RINGS:**
  - Solid Coin Silver Rings.

- **CURRENT:**
  - 5 amp standard.

- **VOLTAGE:**
  - Up to 60 volts standard.

- **BRUSHES:**
  - Fabricast Grade FAG 180 (80% Ag – 20% C).

- **NOISE:**
  - 10 Milliohms maximum dynamic resistance with 2 brushes per ring.

- **HI-POT:**
  - 1000 VAC for 15 seconds.

**REDUCED CLEARANCE BRUSH BLOCK**

- **ROTOR:**
  - Ring complement molded as unit with diallyl phthalate dielectric.
  - 5 Milliohms maximum dynamic resistance with 2 brushes per ring.

- **RINGS:**
  - Solid Coin Silver Rings.

- **CURRENT:**
  - 5 amp standard.

- **VOLTAGE:**
  - Up to 60 volts standard.

- **BRUSHES:**
  - Fabricast Grade FAG 180 (80% Ag – 20% C).

- **NOISE:**
  - 10 Milliohms maximum dynamic resistance with 2 brushes per ring.

- **HI-POT:**
  - 1000 VAC for 15 seconds.

**CHARACTERISTICS**

**CURRENT:**
- 5 amp standard.
- 10 amp optional.

**VOLTAGE:**
- Up to 60 volts standard.
- Up to 1000 volts optional.
- (easily modified by increased ring to ring spacing upon request)

**RINGS:**
- Solid Coin Silver Rings.

**BRUSHES:**
- Silver Graphite.
- Fabricast Grade FAG 180 (80% Ag – 20% C).
- 5 amp capacity with 2 brushes per ring (1 brush block).
- 10 amp capacity with 4 brushes per ring (2 brush blocks).
- Brush complement molded as unit with diallyl phthalate dielectric.

**NOISE:**
- 10 Milliohms maximum dynamic resistance with 2 brushes per ring.

**HI-POT:**
- 1000 VAC for 15 seconds.

**ROTOR:**
- Ring complement molded as unit with diallyl phthalate dielectric.

**OPTIONS:**
- 10 amp current carrying capacity.
- Hard vacuum compatible.
- Consult Fabricast for optional brush grades and characteristics (see page 14).

For Mounting and Wiring Methods, RPM Range, and Operating Environment see pages 9 & 10.

Fabricast, Inc.
MANUFACTURER OF
SLIP RING ASSEMBLIES

P.O. BOX 3176, 2511 SEAMAN AVENUE, SOUTH EL MONTE, CALIFORNIA 91733
© 2016 FABRICAST, INC. CATALOG 1400-S

TELEPHONE: (626) 443-3247
FAX: (626) 443-5594
E-MAIL: info@fabricast.com
WEB SITE: www.fabricast.com
BEST COST • 1.502 INCH BORE • STOCK DELIVERY

STANDARD BRUSH BLOCK

<table>
<thead>
<tr>
<th>TYPE</th>
<th>No. of Rings</th>
<th>Length “A”</th>
<th>Length “B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1972</td>
<td>2</td>
<td>.75</td>
<td>.58</td>
</tr>
<tr>
<td>1973</td>
<td>3</td>
<td>.75</td>
<td>.58</td>
</tr>
<tr>
<td>1914</td>
<td>4</td>
<td>.75</td>
<td>.58</td>
</tr>
<tr>
<td>1915</td>
<td>5</td>
<td>.87</td>
<td>.70</td>
</tr>
<tr>
<td>1916</td>
<td>6</td>
<td>.99</td>
<td>.82</td>
</tr>
<tr>
<td>1917</td>
<td>7</td>
<td>1.11</td>
<td>.94</td>
</tr>
<tr>
<td>1918</td>
<td>8</td>
<td>1.23</td>
<td>1.06</td>
</tr>
<tr>
<td>1919</td>
<td>9</td>
<td>1.35</td>
<td>1.18</td>
</tr>
<tr>
<td>19110</td>
<td>10</td>
<td>1.47</td>
<td>1.30</td>
</tr>
<tr>
<td>19112</td>
<td>12</td>
<td>1.71</td>
<td>1.54</td>
</tr>
<tr>
<td>19114</td>
<td>14</td>
<td>1.95</td>
<td>1.78</td>
</tr>
<tr>
<td>19116</td>
<td>16</td>
<td>2.19</td>
<td>2.02</td>
</tr>
<tr>
<td>19120</td>
<td>20</td>
<td>2.67</td>
<td>2.50</td>
</tr>
<tr>
<td>19124</td>
<td>24</td>
<td>3.15</td>
<td>2.98</td>
</tr>
</tbody>
</table>

REDUCED CLEARANCE BRUSH BLOCK

<table>
<thead>
<tr>
<th>TYPE</th>
<th>No. of Rings</th>
<th>Length “A”</th>
<th>Length “B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>1972RC</td>
<td>2</td>
<td>.75</td>
<td>.58</td>
</tr>
<tr>
<td>1973RC</td>
<td>3</td>
<td>.75</td>
<td>.58</td>
</tr>
<tr>
<td>1914RC</td>
<td>4</td>
<td>.75</td>
<td>.58</td>
</tr>
<tr>
<td>1915RC</td>
<td>5</td>
<td>.87</td>
<td>.70</td>
</tr>
<tr>
<td>1916RC</td>
<td>6</td>
<td>.99</td>
<td>.82</td>
</tr>
<tr>
<td>1917RC</td>
<td>7</td>
<td>1.11</td>
<td>.94</td>
</tr>
<tr>
<td>1918RC</td>
<td>8</td>
<td>1.23</td>
<td>1.06</td>
</tr>
<tr>
<td>1919RC</td>
<td>9</td>
<td>1.35</td>
<td>1.18</td>
</tr>
<tr>
<td>19110RC</td>
<td>10</td>
<td>1.47</td>
<td>1.30</td>
</tr>
<tr>
<td>19112RC</td>
<td>12</td>
<td>1.71</td>
<td>1.54</td>
</tr>
<tr>
<td>19114RC</td>
<td>14</td>
<td>1.95</td>
<td>1.78</td>
</tr>
<tr>
<td>19116RC</td>
<td>16</td>
<td>2.19</td>
<td>2.02</td>
</tr>
<tr>
<td>19120RC</td>
<td>20</td>
<td>2.67</td>
<td>2.50</td>
</tr>
<tr>
<td>19124RC</td>
<td>24</td>
<td>3.15</td>
<td>2.98</td>
</tr>
</tbody>
</table>

CHARACTERISTICS

CURRENT:  
• 5 amp standard.  
• 10 amp optional.

VOLTAGE:  
• Up to 60 volts standard.  
• Up to 1000 volts optional.  

RINGS:  
• Solid Coin Silver Rings.

BRUSHES:  
• Silver Graphite.  
• Fabricast Grade FAG 180 (80% Ag – 20% C).
• 5 amp capacity with 2 brushes per ring (1 brush block).  
• 10 amp capacity with 4 brushes per ring (2 brush blocks).  
• Brush complement molded as unit with diallyl phthalate dielectric.

NOISE:  
• 10 Milliohms maximum dynamic resistance with 2 brushes per ring.  
• 5 Milliohms maximum dynamic resistance with 4 brushes per ring.

HI-POT:  
• 1000 VAC for 15 seconds.

ROTOR:  
• Ring complement molded as unit with diallyl phthalate dielectric.

ROTOR LEADS:  
• 5 amp leads – 20 AWG per MIL-W-16878 Type “E”.  
• 10 amp leads – 16 AWG per MIL-W-16878 Type “E”.

OPTIONS:  
• 10 amp current carrying capacity.  
• Hard vacuum compatible.  
• Consult Fabricast for all available options.

COMPLETE ASSEMBLY PART NUMBER CODING – Specify fully when ordering:

For additional ordering information see page 11.
**SLIP RING ASSEMBLIES**

**BEST COST & DELIVERY**

**SEPARATE ROTOR & BRUSH BLOCK ASSY**

---

**BEST COST • 2.004 INCH BORE • STOCK DELIVERY**

---

**CURRENT:**
- 5 amp standard.
- 10 amp optional.

**VOLTAGE:**
- Up to 60 volts standard.
- Up to 1000 volts optional.
  (easily modified by increased ring to ring spacing upon request)

**RINGS:**
- Solid Coin Silver Rings.

**BRUSHES:**
- Silver Graphite.
- Fabricast Grade FAG 180 (80% Ag – 20% C).
- 5 amp capacity with 2 brushes per ring (1 brush block).
- 10 amp capacity with 4 brushes per ring (2 brush blocks).
- Brush complement molded as unit with diallyl phthalate dielectric.

**NOISE:**
- 10 Milliohms maximum dynamic resistance with 2 brushes per ring.
- 5 Milliohms maximum dynamic resistance with 4 brushes per ring.

**HI-POT:**
- 1000 VAC for 15 seconds.

**ROTOR:**
- One piece aluminum sleeve.
- Ring complement molded as unit with diallyl phthalate dielectric.

**CHARACTERISTICS**

**FOR MOUNTING AND WIRING METHODS, RPM RANGE, AND OPERATING ENVIRONMENT SEE PAGES 9 & 10.**

---

**FOR ADDITIONAL ORDERING INFORMATION SEE PAGE 11.**

---

**TELEPHONE:** (626) 443-3247
**FAX:** (626) 443-5594
**E-MAIL:** info@fabricast.com
**WEB SITE:** www.fabricast.com

---

© 2016 FABRICAST, INC. CATALOG 1400-S
CURRENT:
• 5 amp standard.
• 10 amp optional.

VOLTAGE:
• Up to 60 volts standard.
• Up to 1000 volts optional.
  (easily modified by increased ring to ring spacing upon request)

RINGS:
• Solid Coin Silver Rings.

BRUSHES:
• Silver Graphite.
  • Fabricast Grade FAG 180 (80% Ag – 20% C).
  • 5 amp capacity with 2 brushes per ring (1 brush block).
  • 10 amp capacity with 4 brushes per ring (2 brush blocks).
  • Brush complement molded as unit with diallyl phthalate dielectric.

NOISE:
• 10 Milliohms maximum dynamic resistance with 2 brushes per ring.
• 5 Milliohms maximum dynamic resistance with 4 brushes per ring.

HI-POT:
• 1000 VAC for 15 seconds.

ROTOR:
• One piece aluminum sleeve.
• Ring complement molded as unit with diallyl phthalate dielectric.

For Mounting and Wiring Methods, RPM Range, and Operating Environment see pages 9 & 10.
BEST COST • 1.004 INCH BORE • STOCK DELIVERY

- **CURRENT:**
  - 5 amp standard.
  - 10 amp optional.
- **VOLTAGE:**
  - Up to 60 volts standard.
  - Up to 1000 volts optional.
- **RINGS:**
  - Solid Coin Silver Rings.
- **BRUSHES:**
  - Silver Graphite.
  - Fabricast Grade FAG 180 (80% Ag – 20% C).
- **NOISE:**
  - 10 Millionohms maximum dynamic resistance with 2 brushes per ring.
  - 5 Millionohms maximum dynamic resistance with 4 brushes per ring.
- **HI-POT:**
  - 1000 VAC for 15 seconds.
- **ROTOR:**
  - One piece aluminum sleeve.
  - Ring complement molded as unit with diallyl phthalate dielectric.

**CHARACTERISTICS**

**TYPE 1988**

- Current: 5 amp standard, 10 amp optional.
- Voltage: Up to 60 volts standard, up to 1000 volts optional.
- Rings: Solid Coin Silver Rings.
- Brushes: Silver Graphite, Fabricast Grade FAG 180 (80% Ag – 20% C).
- Noise: 10 Millionohms maximum dynamic resistance with 2 brushes per ring, 5 Millionohms maximum dynamic resistance with 4 brushes per ring.
- Hi-Pot: 1000 VAC for 15 seconds.
- Rotor: One piece aluminum sleeve, ring complement molded as unit with diallyl phthalate dielectric.

**FOR ADDITIONAL ORDERING INFORMATION SEE PAGES 9 & 10.**
**BEST COST • 1.504 INCH BORE • STOCK DELIVERY**

**TYPE 2984**

P/N 2984-2BR-FAG180 pictured with and without cover.

**TYPE 2986**

P/N 2986-2BR-FAG180 pictured with and without cover.

**CHARACTERISTICS**

**CURRENT:**
- 5 amp standard.
- 10 amp optional.

**VOLTAGE:**
- Up to 60 volts standard.
- Up to 100 volts optional.
- (easily modified by increased ring to ring spacing upon request)

**RINGS:**
- Solid Coin Silver Rings.

**BRUSHES:**
- Silver Graphite.
- Fabricast Grade FAG 180 (80% Ag – 20% C).
- 5 amp capacity with 2 brushes per ring (1 brush block).
- 10 amp capacity with 4 brushes per ring (2 brush blocks).
- Brush complement molded as unit with diallyl phthalate dielectric.

**NOISE:**
- 10 Milliohms maximum dynamic resistance with 2 brushes per ring.
- 5 Milliohms maximum dynamic resistance with 4 brushes per ring.

**HI-POT:**
- 1000 VAC for 15 seconds.

**ROTOR:**
- One piece aluminum sleeve.
- Ring complement molded as unit with diallyl phthalate dielectric.

**ROTOR LEADS:**
- 5 amp leads – 20 AWG per MIL-W-16878 Type “E”.
- 10 amp leads – 16 AWG per MIL-W-16878 Type “E”.

**HOUSING:**
- One piece aluminum structure.

**COVER:**
- Aluminum.

**OPTIONS:**
- 10 amp current carrying capacity.
- Hard vacuum compatible.
- Consult Fabricast for all available options.
- Consult Fabricast for optional brush grades and characteristics (see page 14).

**COMPLETE ASSEMBLY PART NUMBER CODING – Specify fully when ordering:**

<table>
<thead>
<tr>
<th>Type</th>
<th>No. of Rings</th>
<th>Length “A” Inches</th>
<th>Length “B” Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>2982</td>
<td>2</td>
<td>1.48</td>
<td>1.56</td>
</tr>
<tr>
<td>2983</td>
<td>3</td>
<td>1.72</td>
<td>1.81</td>
</tr>
<tr>
<td>2984</td>
<td>4</td>
<td>1.96</td>
<td>2.06</td>
</tr>
<tr>
<td>2986</td>
<td>6</td>
<td>2.20</td>
<td>2.31</td>
</tr>
<tr>
<td>2988</td>
<td>8</td>
<td>2.44</td>
<td>2.56</td>
</tr>
<tr>
<td>29810</td>
<td>10</td>
<td>2.68</td>
<td>2.81</td>
</tr>
<tr>
<td>29812</td>
<td>12</td>
<td>2.92</td>
<td>3.00</td>
</tr>
<tr>
<td>29814</td>
<td>13</td>
<td>3.40</td>
<td>3.50</td>
</tr>
<tr>
<td>29816</td>
<td>14</td>
<td>3.88</td>
<td>4.00</td>
</tr>
</tbody>
</table>

For additional ordering information see page 11.
### SLIP RING ASSEMBLIES

**BEST COST • 2.004 INCH BORE • STOCK DELIVERY**

#### BEST COST & DELIVERY

**Self-Contained Assemblies**

---

**SLIP RING ASSEMBLIES**

**Manufacturer of Slip Ring Assemblies**

**Telephone:** (626) 443-3247  
**Fax:** (626) 443-5594

**E-mail:** info@fabricast.com  
**Web Site:** www.fabricast.com

© 2016 Fabricast, Inc.

**Catalog 1400-S**

**P.O. Box 3176, 2511 Seaman Avenue, South El Monte, California 91733**

---

**BEST COST • 2.004 INCH BORE • STOCK DELIVERY**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>No. of Rings</th>
<th>Length &quot;A&quot; Inches</th>
<th>Length &quot;B&quot; Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>3982</td>
<td>2</td>
<td>1.69</td>
<td>1.81</td>
</tr>
<tr>
<td>3983</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3984</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3986</td>
<td>6</td>
<td>1.93</td>
<td>2.06</td>
</tr>
<tr>
<td>3988</td>
<td>8</td>
<td>2.17</td>
<td>2.31</td>
</tr>
<tr>
<td>39810</td>
<td>10</td>
<td>2.41</td>
<td>2.56</td>
</tr>
<tr>
<td>39812</td>
<td>12</td>
<td>2.65</td>
<td>2.75</td>
</tr>
<tr>
<td>39814</td>
<td>14</td>
<td>2.89</td>
<td>3.00</td>
</tr>
<tr>
<td>39816</td>
<td>16</td>
<td>3.13</td>
<td>3.25</td>
</tr>
<tr>
<td>39820</td>
<td>20</td>
<td>3.61</td>
<td>3.75</td>
</tr>
<tr>
<td>39824</td>
<td>24</td>
<td>4.09</td>
<td>4.25</td>
</tr>
</tbody>
</table>

**Type 39812**

P/N 39812-2BR-FAG180 pictured with and without cover.

---

**Characteristics**

**Current:**
- 5 amp standard.
- 10 amp optional.

**Voltage:**
- Up to 60 volts standard.
- Up to 1000 volts optional.
  - (easily modified by increased ring to ring spacing upon request)

**Rings:**
- Solid Coin Silver Rings.

**Brushes:**
- Silver Graphite.
- Fabricast Grade FAG 180 (80% Ag – 20% C).
- 5 amp capacity with 2 brushes per ring (1 brush block).
- 10 amp capacity with 4 brushes per ring (2 brush blocks).
- Brush complement molded as unit with diallyl phthalate dielectric.

**Noise:**
- 10 Milliohms maximum dynamic resistance with 2 brushes per ring.
- 5 Milliohms maximum dynamic resistance with 4 brushes per ring.

**Hi-Pot:**
- 1000 VAC for 15 seconds.

**Rotors:**
- One piece aluminum sleeve.
- Ring complement molded as unit with diallyl phthalate dielectric.

**Rotator Leads:**
- 5 amp leads – 20 AWG per MIL-W-16878 Type “E”.
- 10 amp leads – 16 AWG per MIL-W-16878 Type “E”.

**Housing:**
- One piece aluminum structure.

**Cover:**
- Aluminum.

**Options:**
- 10 amp current carrying capacity.
- Hard vacuum compatible.
- Consult Fabricast for all available options.
- Consult Fabricast for optional brush grades and characteristics (see page 14).

**Complete Assembly Part Number Coding** – Specify fully when ordering:

<table>
<thead>
<tr>
<th>Type</th>
<th>Number of Brushes per Ring</th>
<th>Brush Grade Number</th>
<th>Options (If Applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>*(FAG180) (10 amp, Vacuum, etc.)</td>
</tr>
</tbody>
</table>

For additional ordering information see page 11.

---

For Mounting and Wiring Methods, RPM Range, and Operating Environment see pages 9 & 10.

---

**Fabricast, Inc.**

**Manufacturer of SLIP RING ASSEMBLIES**

P.O. Box 3176, 2511 Seaman Avenue, South El Monte, California 91733

© 2016 Fabricast, Inc.  **Catalog 1400-S**
MOUNTING METHODS

Separate Rotor & Brush Block Assembly

.50 & 2.00 INCH DIAMETER THRU BORE
(Pages 1 and 4 – Aluminum Rotor Structure)

1. Rigidly mount rotor to shaft using rotor set screws.
2. Align brush block on rotor and push radially into position. Do not slide brush block axially across rotor.
3. Secure brush block to mounting bracket.
4. Verify proper alignment of brush contacts on rings.
5. If required, remove brush block and adjust axial position of brush block mounting bracket or rotor to center brush contacts on rings.
6. Solder stator leads to stator solder terminals.

1. Rigidly mount rotor to shaft using appropriate adhesive (epoxy, Locktite®, etc.), or mechanical method (collar, wave ring, etc.).
2. Align brush block on rotor and push radially into position. Do not slide brush block axially across rotor.
3. Secure brush block to mounting bracket.
4. Verify proper alignment of brush contacts on rings.
5. If required, remove brush block and adjust axial position of brush block mounting bracket to center brush contacts on rings.
6. Solder stator leads to stator solder terminals.

Separate Rotor & Brush Block Assembly

1.00 & 1.50 INCH DIAMETER THRU BORE
(Pages 2 and 3 – No Aluminum Rotor Structure)

Self-Contained Assembly

ROTOR RIGID / HOUSING FLOATING
(Pages 5, 6, 7, and 8)

1. Rigidly mount rotor to shaft using rotor set screws.
2. Secure housing restraining pin with housing restraining bracket (customer supplied).
3. Allow housing restraining pin to float in housing restraining bracket.

1. Secure slip ring housing to mounting bracket. 1/4-inch bolts can be inserted through .265 inch diameter thru holes.
2. Attach rotor using some type of flexible coupling method (customer supplied).

Self-Contained Assembly

HOUSING RIGID / ROTOR FLOATING
(Pages 5, 6, 7, and 8)

1. Rigidly mount rotor to shaft using rotor set screws.
2. Secure housing restraining pin with housing restraining bracket (customer supplied).
3. Allow housing restraining pin to float in housing restraining bracket.

DO NOT RIGIDLY MOUNT ROTOR AND STATOR ON SELF-CONTAINED SLIP RINGS.
**WIRING METHODS**

**Self-Contained Assembly**

**AXIAL WIRING**

1. Remove cover.
2. Remove plastic filler plugs as required.
3. Insert stator leads through .265 inch diameter hole(s).
4. Solder stator leads to stator solder terminals.
5. Reinstall cover.

**Self-Contained Assembly**

**RADIAL WIRING**

1. Remove cover and machine slot or hole for stator leads.
2. Solder stator leads to stator solder terminals.
3. Tie stator leads together with tie wrap.
4. Stator leads can be secured to slip ring by utilizing one of the brush block mounting bolts to attach a restraining bracket.
5. Reinstall cover.

**RPM RANGE**

Fabricast BEST COST & DELIVERY slip rings provide a reliable method of transmitting power and data, from a stationary to a rotating component, with consistently low electrical noise over a wide range of operating speeds. Fabricast BEST COST & DELIVERY slip rings work very well while stationary or rotating either in a single direction or bi-directionally.

Fabricast slip rings, utilizing solid coin silver rings and silver graphite brushes, work well at high speeds of rotation. In general, the maximum RPM for Fabricast BEST COST & DELIVERY slip rings is defined by the maximum surface feet per minute the brush contact material can travel. See Fabricast Catalog page 14, for different brush contact materials and respective maximum surface feet per minute ratings.

Use the following formula to calculate surface feet per minute:

\[
\text{Surface Feet Per Minute} = \frac{(\text{Ring Diameter in Inches} \times 3.141 \times \text{RPM})}{12}
\]

Please note that this is only a guideline. Maximum operating speeds may be limited by noise (dynamic resistance) requirements, brush life requirements, bearings, and various environmental conditions. For high speed applications please contact Fabricast for help in selecting the appropriate brush material, bearings, and number of brushes per ring to best meet the mechanical, electrical, and environmental specifications of your application.

**OPERATING ENVIRONMENT**

Fabricast BEST COST & DELIVERY slip rings can operate in temperatures from -65°F to 250°F. Please note that this is only a guideline. Operating temperature range can be reduced by high RPM and high current specifications.

Fabricast BEST COST & DELIVERY slip rings can be modified to operate in high altitude, dry nitrogen and hard vacuum environments.
### PART NUMBER CODING

#### Separate Rotor & Brush Block Assembly

**COMPLETE ASSEMBLY**

<table>
<thead>
<tr>
<th><strong>2BR</strong></th>
<th><strong>4BR</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Two (2) Brushes per Ring</strong></td>
<td><strong>Four (4) Brushes per Ring</strong></td>
</tr>
</tbody>
</table>

**Example:**
- 2BR: P/N 1908–2BR–FAG180
- 4BR: P/N 1908–4BR–FAG180

**COMPLETE ASSEMBLY PART NUMBER CODING:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Number of Brushes per Ring</th>
<th>Brush Grade Number</th>
<th>Options (If Applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Slip Ring Type**

(see pages 1 thru 4)

**Brush Type**

**(2BR or 4BR)**

***(FAG180)**

**(10 amp, Vacuum, etc.)**

**SEPARATE COMPONENTS**

**Example:**
- P/N 1908–1

**ROTOR PART NUMBER CODING:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Designation</th>
<th>Options (If Applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Slip Ring Type**

(see pages 1 thru 4)

*(Designation always – 1)*

**BRUSH BLOCK PART NUMBER CODING:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Universal Brush Block Designation</th>
<th>Brush Grade Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Slip Ring Type**

(see pages 1 thru 4)

*(Designation always – 2)*

**(FAG180)**

#### Self-Contained Assembly

**COMPLETE ASSEMBLY**

<table>
<thead>
<tr>
<th><strong>2BR</strong></th>
<th><strong>4BR</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Two (2) Brushes per Ring</strong></td>
<td><strong>Four (4) Brushes per Ring</strong></td>
</tr>
</tbody>
</table>

**Example:**
- 2BR: P/N 0984–2BR–FAG180
- 4BR: P/N 0984–4BR–FAG180

**COMPLETE ASSEMBLY PART NUMBER CODING:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Number of Brushes per Ring</th>
<th>Brush Grade Number</th>
<th>Options (If Applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Slip Ring Type**

(see pages 1 thru 4)

**Brush Type**

**(2BR or 4BR)**

***(FAG180)**

**(10 amp, Vacuum, etc.)**

**SEPARATE COMPONENT**

**Example:**
- P/N 0984–2–FAG180

**BRUSH BLOCK PART NUMBER CODING:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Universal Brush Block Designation</th>
<th>Brush Grade Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>2</td>
<td>X</td>
</tr>
</tbody>
</table>

**Slip Ring Type**

(see pages 5 thru 8)

*(Designation always – 2)*

**(FAG180)**

* Consult Fabricast for optional brush grades and characteristics (see page 14).
* Refer to pages 1 thru 4 for electrical characteristics of 2BR and 4BR.

---

**Fabricast, Inc.**

**Manufacturer of Slip Ring Assemblies**

P.O. BOX 3176, 2511 SEAMAN AVENUE, SOUTH EL MONTE, CALIFORNIA 91733

© 2016 FABRICAST, INC. CATALOG 1400-S

**TELEPHONE:** (626) 443-3247
**FAX:** (626) 443-5594
**E-MAIL:** info@fabricast.com
**WEB SITE:** www.fabricast.com
SLIP RING MODIFICATIONS

Type 19012 Rotor (page 2) with heat shrink, tie wraps, and Molex® connectors added to standard rotor leads.

Type 19012 Brush Block (page 2) with twisted pair stator leads, tie wraps, part number coding, and Molex® connectors added to standard brush block.

Modified Type 1986 Slip Ring (page 6) with AMP® connectors added to standard rotor leads. Stator wires covered with copper braided shield and ferrite bead for EMI protection and terminated with AMP® connectors.

Modified Type 09816 Slip Ring (page 5) built for a 3500 RPM centrifuge application. Six rings spaced further apart for three high voltage RF circuits. Coaxial and hookup wire stator leads with ITT Cannon® connectors added to custom brush block. Cover not shown.

Our Best Cost & Delivery Slip Rings (pages 1 thru 8) can be modified to meet your electrical, mechanical and/or environmental specifications.

Consult Fabricast for specialty modifications to fit your application.

Pictured are a few examples of Slip Ring modifications we performed to meet the specific needs of our customers.

Fabricast, Inc. MANUFACTURER OF SLIP RING ASSEMBLIES

P.O. BOX 3176, 2511 SEAMAN AVENUE, SOUTH EL MONTE, CALIFORNIA 91733

© 2016 FABRICAST, INC. CATALOG 1400-S
Although Fabricast places considerable emphasis on its line of standard slip rings, there have always been and will continue to be many applications which require custom slip ring assemblies.

Since Fabricast was founded in 1960, a portion of our business has always been the design and manufacture of high quality custom slip ring assemblies. The pictures on this page give an idea of some of the custom slip rings we manufacture.

Please contact Fabricast with any custom slip ring application. Because many custom slip rings are designed around standard tooling you will find our cost and delivery extremely competitive. We can be contacted by phone, fax, E-mail or by using either of the two forms included in the website (Request For More Information Form or Slip Ring Specification Form).
INTRODUCTION
The brush assemblies on pages 16, 17, 18 and 19 are the standard leaf and plunger brush assemblies used on Fabricast slip ring assemblies. These assemblies can be used to replace worn brushes on Fabricast slip rings or for other applications in which the customer feels they would be adaptable. Our engineers will specify the best brush grade for both Fabricast built slip rings and for customer applications. Custom brush assemblies can be designed and manufactured for your specific application.

BRUSH CONTACT MATERIAL
All slip rings and brush assemblies illustrated in the catalog are specified with FAG 180, our most common brush contact material. The following chart gives some basic information on FAG 180 and the most common optional brush contact materials.

Brush Contact Material Chart:

<table>
<thead>
<tr>
<th>Brush Grade</th>
<th>Composition</th>
<th>Recommended Surface Speed</th>
<th>Carrying Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAG 180</td>
<td>80% Silver, 20% Graphite</td>
<td>Up to 3500 feet per minute</td>
<td>250 amps per square inch</td>
</tr>
<tr>
<td>FAG 180A</td>
<td>80% Silver, 20% Graphite plus MoS₂</td>
<td>Up to 3500 feet per minute</td>
<td>250 amps per square inch</td>
</tr>
<tr>
<td>FAG 150</td>
<td>50% Silver, 50% Graphite</td>
<td>Up to 6000 feet per minute</td>
<td>100 amps per square inch</td>
</tr>
<tr>
<td>FAG 150A</td>
<td>50% Silver, 50% Graphite plus MoS₂</td>
<td>Up to 6000 feet per minute</td>
<td>100 amps per square inch</td>
</tr>
<tr>
<td>FAG 193</td>
<td>93% Silver, 7% Graphite</td>
<td>Up to 250 feet per minute</td>
<td>300 amps per square inch</td>
</tr>
</tbody>
</table>

Fabricast grade FAG 180 is the low noise level grade used for all standard brush assemblies. In general, a noise level of approximately 1 microvolt for each milliamp of current flow can be accomplished depending on the speed of the unit and quantity of brushes per ring.

Fabricast grade FAG 150 is the highest surface speed grade; however, noise levels are slightly higher than FAG 180. Brush life is approximately twice that of FAG 180. It is recommended when brush life is critical and/or surface speed is high. Low noise can be achieved with multiple contacts per ring.

Fabricast grade FAG 193 has the highest current carrying capacity of any grade; however, it is limited to a surface speed of 250 ft. per minute.

Fabricast grades FAG 180A and FAG 150A contain molybdenum disulfide in addition to silver and graphite. This additive is required for operation in altitude, vacuum, and inert environments. Other characteristics remain the same.
**LEAF TYPE** *(See pages 16 & 17)*

Leaf springs for Fabricast leaf type brush assemblies are made of beryllium copper alloy #25. The leaf springs are heat treated and tin plated. The silver graphite brush contacts are soldered onto the leaf springs.

All leaf type assemblies illustrated on pages 16 and 17 are specified with FAG 180 brush contact material. For description of optional brush contact materials see page 14.

**PART NUMBER CODING:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Angle “X” (degrees)</th>
<th>Brush Grade Number</th>
<th>*Options (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Example: 1050006-2 36 FAG 180 Hardware

P/N: 1050006-2–36–FAG 180–Hardware

*Options:
- **Hardware**: Brush Assembly is supplied with mounting bolt soldered to leaf spring and shipped with required washers, nuts, and terminals.
- **Phantom**: Brush Contact is soldered to opposite side of leaf spring as shown on page 17.
- Consult Fabricast for additional options you may require.

**Determination of Angle “X”**:  
Angle “X” will be supplied by our engineering department for all Fabricast slip ring replacement brushes. For other applications specify angle “X” so that in free state BeCu leaf spring (without brush contact material) would just touch ring surface. This method defines a good starting point for proper brush pressure in most applications.

**NOTE**: ANGLE “X” DOES NOT APPLY TO TYPES 1799, 1120051, AND 8115.

---

**PLUNGER TYPE** *(See pages 18 & 19)*

Plunger type brush assemblies consist of a brass holder with cap, a copper or BeCu buss assembly, and a spring loaded silver graphite plunger brush. Both holder and buss are tin plated.

Brush holders are usually press fit into a dielectric brush block or soldered/brazed to a buss which is bolted to the brush block. Proper brush pressure is achieved when brush holder is .040 to .050 inches from ring surface (see illustration).

All plunger type brush assemblies illustrated on pages 18 and 19 are specified with FAG 180. Refer to page 14 and following chart for optional brush grades and corresponding part numbers.

**Plunger Brush Part Number Chart**:

<table>
<thead>
<tr>
<th>BRUSH GRADE</th>
<th>FAG 180</th>
<th>FAG 150</th>
<th>FAG 180A</th>
<th>FAG 150A</th>
<th>FAG 193</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/32&quot; Square</td>
<td>1072-1</td>
<td>1072-5</td>
<td>1072-11</td>
<td>1072-10</td>
<td>1072-14</td>
</tr>
<tr>
<td>1/8&quot; Square</td>
<td>1072-2</td>
<td>1072-6</td>
<td>1072-13</td>
<td>1072-12</td>
<td>1072-15</td>
</tr>
<tr>
<td>3/16&quot; x 1/4&quot;</td>
<td>1913-1</td>
<td>1913-2</td>
<td>1913-3</td>
<td>1913-4</td>
<td>1913-5</td>
</tr>
<tr>
<td><strong>1/4&quot; x 1/2&quot;</strong></td>
<td>1092003</td>
<td>1092003-31</td>
<td>1092003-29</td>
<td>1092003-27</td>
<td>1092003-25</td>
</tr>
</tbody>
</table>

**FOR USE WITH BRUSH HOLDER P/N 1092006**

**FOR USE WITH BRUSH HOLDER P/N 1092012**

Fabricast, Inc.® MANUFACTURER OF SLIP RING ASSEMBLIES  
P.O. BOX 3176, 2511 SEAMAN AVENUE, SOUTH EL MONTE, CALIFORNIA 91733  
© 2016 FABRICAST, INC. CATALOG 1400-S

TELEPHONE: (626) 443-3247  
FAX: (626) 443-5594  
E-MAIL: info@fabricast.com  
WEB SITE: www.fabricast.com
**2 AMP CAPACITY • SINGLE BRUSH**

BRUSH .040 WIDE • BRUSH MATERIAL – FAG 180 (80% AG – 20% C) • LEAF MATERIAL – BECU

*ANGLE “X” NOT APPLICABLE.

**5 AMP CAPACITY • DOUBLE BRUSH**

BRUSH .040 WIDE • BRUSH MATERIAL – FAG 180 (80% AG – 20% C) • LEAF MATERIAL – BECU

*ANGLE “X” NOT APPLICABLE.

---

**PART NUMBER CODING:**

(SPECIFY FULLY WHEN ORDERING).

<table>
<thead>
<tr>
<th>Type</th>
<th>*Angle “X” (degrees)</th>
<th>Brush Grade Number</th>
<th>Options (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
**BRUSH ASSEMBLIES**

### 5 AMP CAPACITY • SINGLE BRUSH

**BRUSH .090 WIDE • BRUSH MATERIAL – FAG 180 (80% AG – 20% C) • LEAF MATERIAL – BECU**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Type 1052005</th>
<th>Type 1117003</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.187</td>
<td>1.968</td>
<td>2.37</td>
</tr>
<tr>
<td>0.116 Dia. (TYP)</td>
<td>0.375</td>
<td>0.312</td>
</tr>
<tr>
<td>0.012 (STK)</td>
<td>ANGLE “X”</td>
<td>ANGLE “X”</td>
</tr>
</tbody>
</table>

**OPTION:** OPPOSITE HAND ASSEMBLIES AVAILABLE. OPTIONAL BRUSH LOCATION SHOWN IN PHANTOM.

### 5 AMP CAPACITY • SINGLE BRUSH

**BRUSH .090 WIDE • BRUSH MATERIAL – FAG 180 (80% AG – 20% C) • LEAF MATERIAL – BECU**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Type 8115</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.187</td>
<td>2.22</td>
</tr>
<tr>
<td>0.250</td>
<td></td>
</tr>
<tr>
<td>0.140 Dia. (TYP)</td>
<td>0.312</td>
</tr>
<tr>
<td>0.312</td>
<td>ANGLE “X”</td>
</tr>
<tr>
<td>0.093</td>
<td></td>
</tr>
</tbody>
</table>

**OPTION:** OPPOSITE HAND ASSEMBLIES AVAILABLE. OPTIONAL BRUSH LOCATION SHOWN IN PHANTOM.

### 10 AMP CAPACITY • DOUBLE BRUSH

**BRUSH .090 WIDE • BRUSH MATERIAL – FAG 180 (80% AG – 20% C) • LEAF MATERIAL – BECU**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Type 8091</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.187</td>
<td>1.97</td>
</tr>
<tr>
<td>0.340</td>
<td></td>
</tr>
<tr>
<td>0.312</td>
<td>ANGLE “X”</td>
</tr>
<tr>
<td>0.090</td>
<td>0.69</td>
</tr>
</tbody>
</table>

**OPTION:** OPPOSITE HAND ASSEMBLIES AVAILABLE. OPTIONAL BRUSH LOCATION SHOWN IN PHANTOM.

### PART NUMBER CODING:

<table>
<thead>
<tr>
<th>Type</th>
<th>*Angle “X” (degrees)</th>
<th>Brush Grade Number</th>
<th>Options (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

*ANGLE “X” NOT APPLICABLE.

For further information on part number coding, optional brush contact materials, determination of angle “X”, and options see page 14 and 15.
2.5 AMP CAPACITY • 3/32” SQUARE

BRUSH ASSEMBLY • P/N 1072-1
*Material: FAG 180 (80% Ag - 20% C)

HOLDERS ASSEMBLY • P/N 1070004
Material: Brass, tin plated (brass cap included)

BUSS ASSEMBLY • P/N 1070011-7
Material: .020 thick BeCu, tin plated

4 AMP CAPACITY • 1/8” SQUARE

BRUSH ASSEMBLY • P/N 1072-2
*Material: FAG 180 (80% Ag - 20% C)

HOLDERS ASSEMBLY • P/N 1051032
Material: Brass, tin plated (brass cap included)

BUSS ASSEMBLY • P/N 1070011-9
Material: .020 thick BeCu, tin plated

10 AMP CAPACITY • 3/16” X 1/4” RECTANGULAR

BRUSH ASSEMBLY • P/N 1913-1
*Material: FAG 180 (80% Ag - 20% C)

HOLDERS ASSEMBLY • P/N 1913002
Material: Brass, tin plated (brass cap included)

ANGLE BUSS ASSEMBLY
Material: .125 thick Copper, tin plated

FLAT BUSS ASSEMBLY • P/N 1913003-7
Material: .125 thick Copper, tin plated

For further information on part number coding and optional brush contact materials see pages 14 and 15.
25 AMP CAPACITY • 1/4” X 1/2” RECTANGULAR

BRUSH ASSEMBLY • P/N 1092003
*Material: FAG 180 (80% Ag - 20% C)

TYPICAL ASSY.
50 Amp Std
2 Brushes per Ckt.

Material: .125 thick Copper, tin plated

FLAT BUSS ASSEMBLY • P/N 1092007-7
Material: .125 thick Copper, tin plated

HOLDER ASSEMBLY • P/N 1092006
Material: Brass, tin plated (plastic cap included)

ANGLE BUSS ASSEMBLY
Material: .125 thick Copper, tin plated

50 AMP CAPACITY • TWO EACH 1/4” X 1/2” RECTANGULAR

BRUSH ASSEMBLY • P/N 1991-1
*Material: FAG 180 (80% Ag - 20% C)
Two each per holder

Material: .125 thick Copper, tin plated (plastic cap included)

FLAT BUSS ASSEMBLY • P/N 1092014-7
Material: .125 thick Copper, tin plated

HOLDER ASSEMBLY • P/N 1092012
Material: Brass, tin plated (plastic cap included)

ANGEL BUSS ASSEMBLY
Material: .125 thick Copper, tin plated

For further information on part number coding and optional brush contact materials see pages 14 and 15.
HOW TO SPECIFY A SLIP RING

INTRODUCTION
It is very important for Fabricast’s engineers to understand a customer’s application in order to specify the best slip ring assembly for their application. Outlined below are the major considerations Fabricast’s engineers will need to know about an application. Our Slip Ring Specification Form is provided on the following page to assist in defining your application.

DEFINING SLIP RING APPLICATION
What is the application the slip ring will be used in? By defining the basic type of application (automated medical equipment, semiconductor robot, stabilized camera system, radar pedestal, centrifuge, etc.), Fabricast will draw on prior experience and knowledge in specifying and designing your slip ring.

DEFINING BASIC SLIP RING DESIGN
Fabricast manufactures both separate rotor & brush block and self-contained slip ring assemblies. Self-contained slip rings consist of a rotor, stator and integral ball bearings that maintain the alignment between the two. The self-contained slip ring, although larger and generally more expensive, offers the following benefits: 1) ease of integration into the customer’s system, 2) the customer is not responsible for the correct brush pressure and alignment at the brush/ring interface, and 3) the brush/ring interface is not exposed. The separate rotor & brush block assemblies consist of two components, the rotor and the brush block. The separate rotor and brush block type slip ring is generally smaller and less expensive than a self-contained unit, but the customer is responsible for mounting the brush block and maintaining the correct brush block/rotor relationship.

DEFINING ELECTRICAL REQUIREMENTS
The current carrying capacity and voltage of each ring should be specified. Fabricast will determine the number of brushes per ring and the lead wire size based on the current carrying capacity of each ring. Ring to ring spacing is determined by the specified voltage of each ring and the mechanical requirements of the assembly. To achieve the most cost effective solution and the smallest mechanical envelope, do not rate all rings at current and voltage of highest rated rings. The current and voltage of each ring or set of rings should be specified individually.

DEFINING MECHANICAL REQUIREMENTS

Mechanical Considerations
The specified RPM and duty cycle will be used to select appropriate brush contact material, bearings, and other slip ring components. Fabricast has extensive experience in high RPM slip ring assemblies.

Mechanical Envelope
The bore diameter will define which of Fabricast’s standard assemblies will be used. The length and outside diameter of these assemblies are shown in the catalog. It is important to determine the maximum mechanical envelope so Fabricast can specify the most cost effective solution with optimum mechanical and electrical design characteristics if modifications or a custom assembly is required.

System Interface Requirements
How will the slip ring integrate into the system? Fabricast’s standard slip rings are manufactured with unobstructed thru bores for shaft mounting. Mounting methods for our standard assemblies are shown in the catalog. Electrical connections to Fabricast slip rings are via unterminated flying leads on the rotor side and solder terminals on the stator side. Non standard rotor lead lengths and stator wiring are optional.

DEFINING OPERATING ENVIRONMENT
It is critical that Fabricast understand the environment the slip ring will operate in. If the slip ring operates in extremely high temperatures, altitude, hard vacuum, dry nitrogen, oil, or other special environments, Fabricast may need to incorporate special materials of construction or other design modifications.
SLIP RING SPECIFICATION FORM

To assist in specifying a slip ring assembly, please fill out the following form. This form may also be found and completed at our website (www.fabricast.com) and sent directly to Fabricast via e-mail.

COMPANY ________________________________________ DATE ______________________
ADDRESS ________________________________________ PHONE (            ) ____________________
________________________________________  FAX (            ) ____________________
CONTACT ________________________________________ E-MAIL ___________________________

1. APPLICATION _______________________________________________________________________

2. TYPE OF UNIT
   ( ) Self-Contained assembly
   ( ) Separate rotor and brush block assembly

3. TOTAL NUMBER OF ASSEMBLIES ______________________________________________________

4. ELECTRICAL REQUIREMENTS

   Number of Rings  Description  Current (Amps)  Voltage (Volts)  Frequency / Data Rate  Other Requirements
   _______  _______________  _________  _________  ____________  _______________
   _______  _______________  _________  _________  ____________  _______________
   _______  _______________  _________  _________  ____________  _______________
   _______  _______________  _________  _________  ____________  _______________
   _______  _______________  _________  _________  ____________  _______________

5. MECHANICAL REQUIREMENTS

   Speed (RPM) ___________________________  Duty Cycle _____________________________
   Inside (Bore) Diameter__________________  Max. Outside Diameter________________
   Max. Length ___________________________  Lead Length & Type ___________________
   Mounting: (       ) Shaft (       ) Housing
               (       ) Vertical (       ) Horizontal

6. OPERATING ENVIRONMENT

   Temperature Range _____________________  Altitude ______________________________
   Special Atmospheres ___________________  Humidity ______________________________
   Vibration/Shock ________________________  Clean/Dirty ___________________________
   Other __________________________________

7. REMARKS __________________________________________________________________________
   ________________________________________________________________________________
   ________________________________________________________________________________
   ________________________________________________________________________________

© 2016 FABRICAST, INC.  CATALOG 1400-S