

SLIP RING ASSEMBLIES

STOCK SLIP RING ASSEMBLIES

**BEST COST
& DELIVERY**

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

**BEST COST
& DELIVERY**

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

**BEST COST
& DELIVERY**

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SLIP RING SPECIFICATION

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Designed and Manufactured By:

Fabricast, Inc.[®]

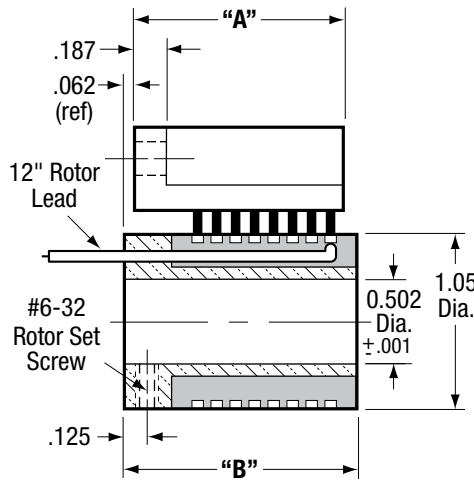
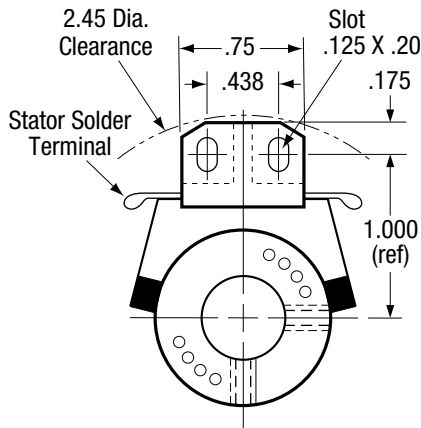
MANUFACTURER OF SLIP RING ASSEMBLIES

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BEST COST • .502 INCH BORE • STOCK DELIVERY

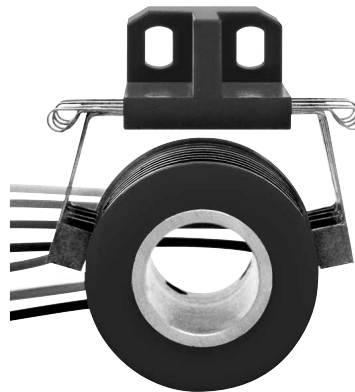


TYPE	No. of Rings	Length "A" Inches	Length "B" Inches
0902	2	.75	.88
0903	3		
0904	4		
0906	6	.99	1.12
0908	8	1.23	1.36
09010	10	1.47	1.60
09012	12	1.71	1.84
09014	14	1.95	2.08
09016	16	2.19	2.32
09020	20	2.67	2.80
09024	24	3.15	3.28



TYPE 0908

P/N 0908-4BR-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 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".

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 (If Applicable)
X	X	X	X
	(2BR or 4BR)	*(FAG180)	(10 amp, Vacuum, etc.)

For additional ordering information see page 11.

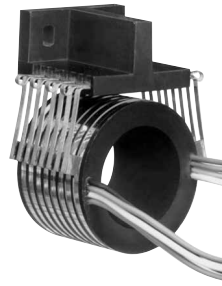
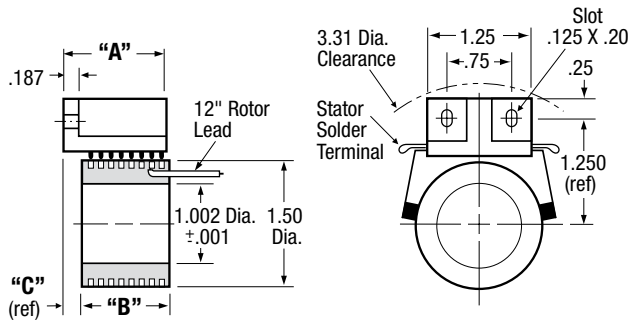
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BEST COST • 1.002 INCH BORE • STOCK DELIVERY

STANDARD BRUSH BLOCK

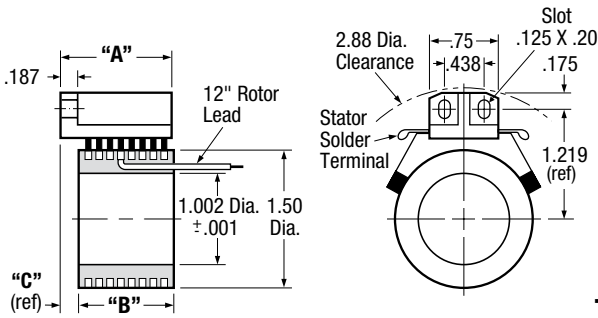


TYPE 1908

P/N 1908-2BR-FAG180 pictured.

TYPE	No. of Rings	Length "A" Inches	Length "B" Inches	Length "C" Inches
1201	2	.75	.56	.230
1401	4	.75	.56	.230
1905	5	.87	.70	.200
1906	6	.99	.82	.200
1907	7	1.11	.94	.200
1908	8	1.23	1.06	.200
1909	9	1.35	1.18	.200
19010	10	1.47	1.30	.200
19012	12	1.71	1.54	.200
19014	14	1.95	1.78	.200
19016	16	2.19	2.02	.200
19020	20	2.67	2.50	.200
19024	24	3.15	2.98	.200

REDUCED CLEARANCE BRUSH BLOCK

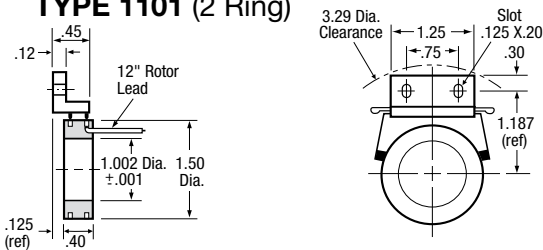


TYPE 1908 RC

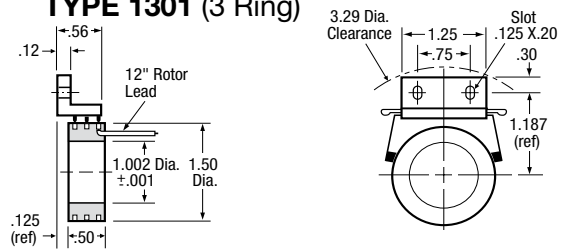
P/N 1908RC-2BR-FAG180 pictured.

TYPE	No. of Rings	Length "A" Inches	Length "B" Inches	Length "C" Inches
1201RC	2	.75	.56	.230
1401RC	4	.75	.56	.230
1905RC	5	.87	.70	.200
1906RC	6	.99	.82	.200
1907RC	7	1.11	.94	.200
1908RC	8	1.23	1.06	.200
1909RC	9	1.35	1.18	.200
19010RC	10	1.47	1.30	.200
19012RC	12	1.71	1.54	.200
19014RC	14	1.95	1.78	.200
19016RC	16	2.19	2.02	.200
19020RC	20	2.67	2.50	.200
19024RC	24	3.15	2.98	.200

TYPE 1101 (2 Ring)



TYPE 1301 (3 Ring)



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

For additional ordering information see page 11.

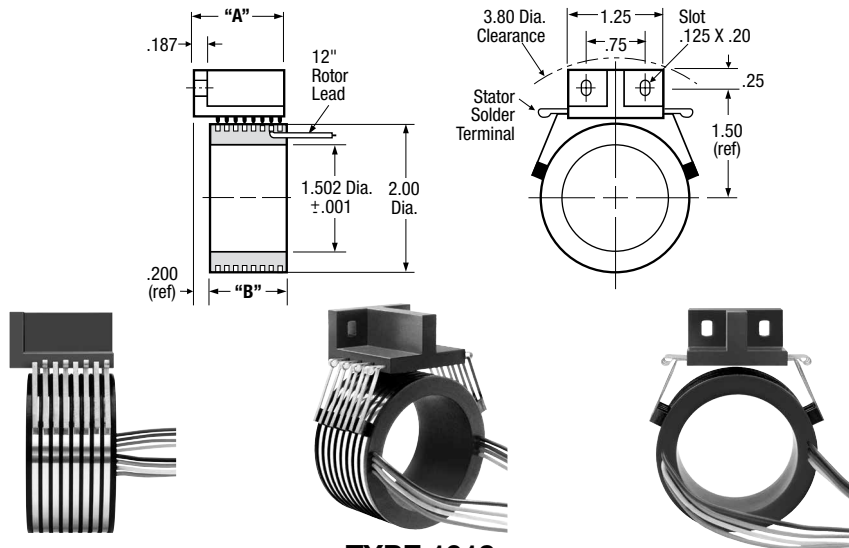
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STANDARD BRUSH BLOCK

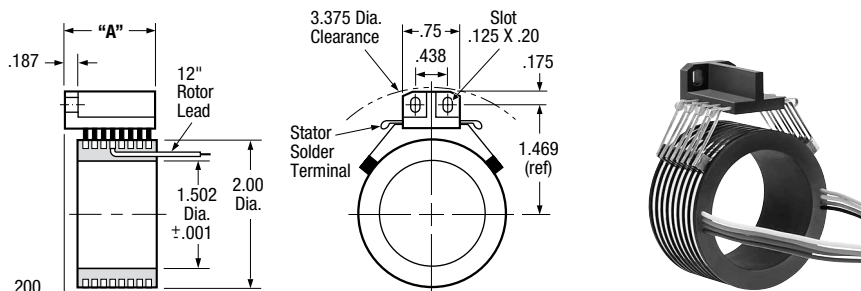


TYPE 1918

P/N 1918-2BR-FAG180 pictured.

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

REDUCED CLEARANCE BRUSH BLOCK



TYPE 1918 RC

P/N 1918RC-2BR-FAG180 pictured.

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

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.

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.

* 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 (If Applicable)
X	X	X	X
	(2BR or 4BR)	*(FAG180)	(10 amp, Vacuum, etc.)

For additional ordering information see page 11.

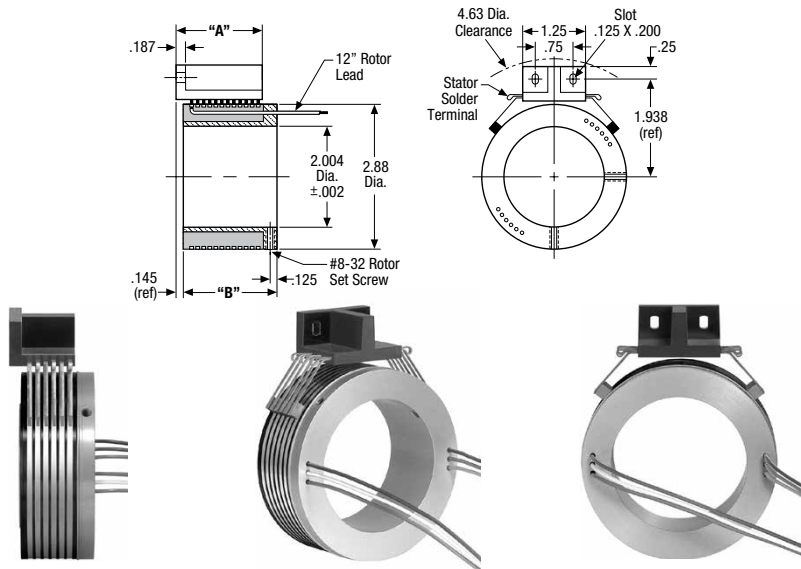
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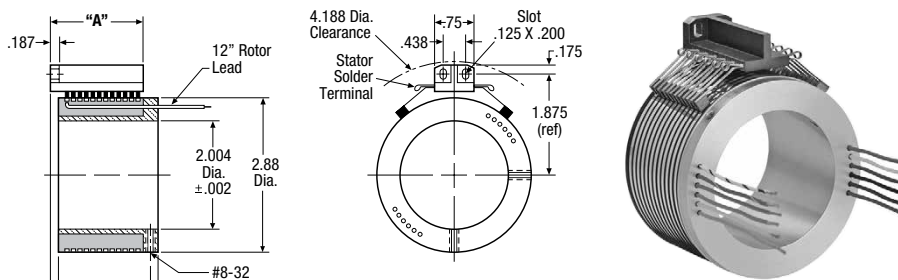


TYPE	No. of Rings	Length "A" Inches	Length "B" Inches
1922	2	.75	.90
1923	3		
1924	4		
1926	6	.99	1.14
1928	8	1.23	1.38
19210	10	1.47	1.62
19212	12	1.71	1.86
19214	14	1.95	2.10
19216	16	2.19	2.34
19220	20	2.67	2.82
19224	24	3.15	3.30

TYPE 1926

P/N 1926-2BR-FAG180 pictured.

REDUCED CLEARANCE BRUSH BLOCK



TYPE	No. of Rings	Length "A" Inches	Length "B" Inches
1922RC	2	.75	.90
1923RC	3		
1924RC	4		
1926RC	6	.99	1.14
1928RC	8	1.23	1.38
19210RC	10	1.47	1.62
19212RC	12	1.71	1.86
19214RC	14	1.95	2.10
19216RC	16	2.19	2.34
19220RC	20	2.67	2.82
19224RC	24	3.15	3.30

TYPE 19212RC

P/N 19212RC-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 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".
- 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 (If Applicable)
X	X	X	X
	(2BR or 4BR)	*(FAG180)	(10 amp, Vacuum, etc.)

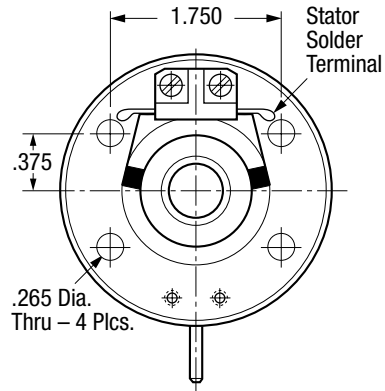
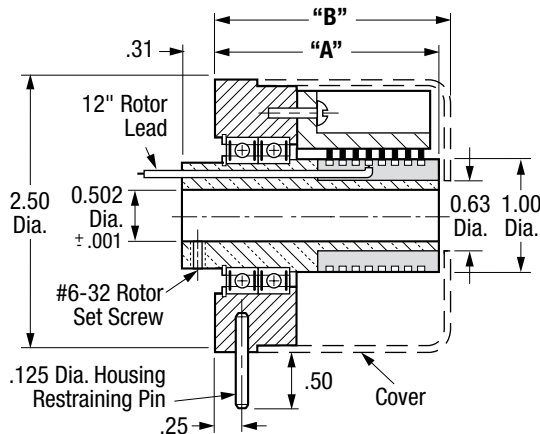
For additional ordering information see page 11.

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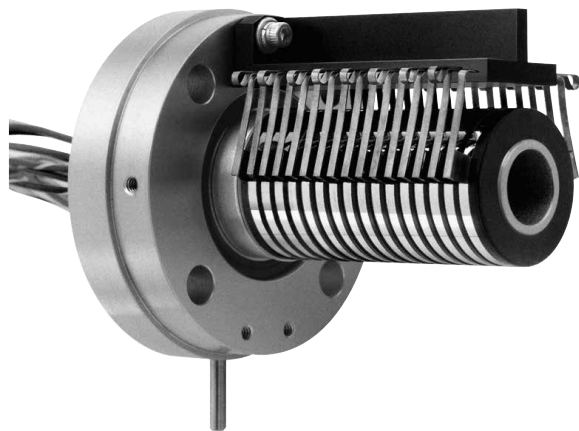
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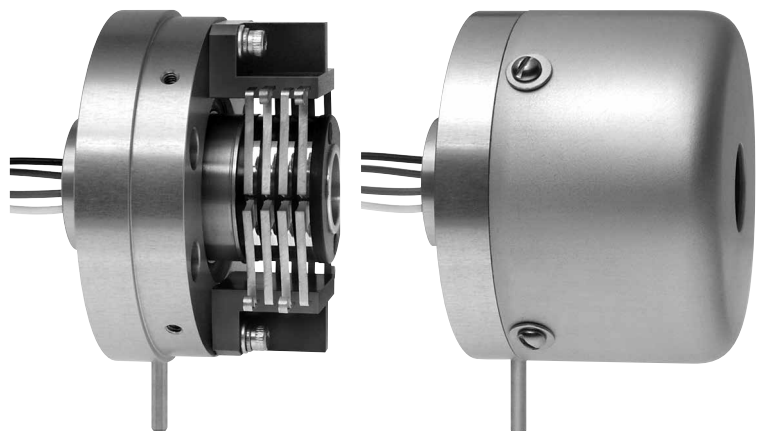


TYPE	No. of Rings	Length "A" Inches	Length "B" Inches
0982	2	1.54	1.62
0983	3		
0984	4		
0986	6	1.78	1.87
0988	8	2.02	2.12
09810	10	2.26	2.37
09812	12	2.50	2.62
09814	14	2.74	2.87
09816	16	2.98	3.06
09820	20	3.46	3.56
09824	24	3.94	4.06



TYPE 09816

P/N 09816-2BR-FAG180 pictured without cover.



TYPE 0984

P/N 0984-4BR-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.
- 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:

Type	Number of Brushes per Ring	Brush Grade Number	Options (If Applicable)
X	X	X	X
	(2BR or 4BR)	*(FAG180)	(10 amp, Vacuum, etc.)

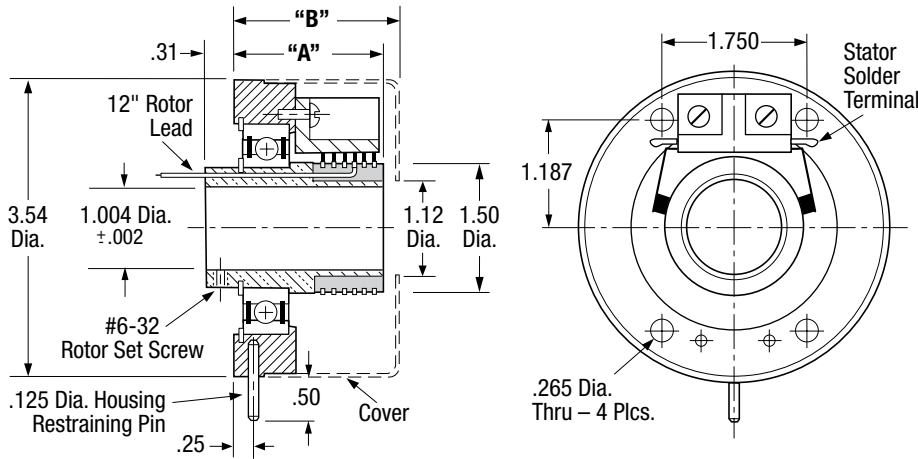
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TYPE	No. of Rings	Length "A" Inches	Length "B" Inches
1982	2	1.52	1.62
1983	3		
1984	4	1.76	1.87
1986	6		
1988	8	2.00	2.12
19810	10	2.24	2.37
19812	12	2.48	2.56
19814	14	2.72	2.81
19816	16	2.96	3.06
19820	20	3.44	3.56
19824	24	3.92	4.06



TYPE 1988

P/N1988-2BR-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.

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:

Type	Number of Brushes per Ring	Brush Grade Number	Options (If Applicable)
X	X (2BR or 4BR)	X *(FAG180)	X (10 amp, Vacuum, etc.)

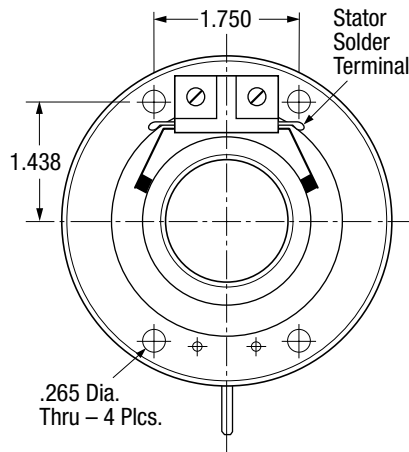
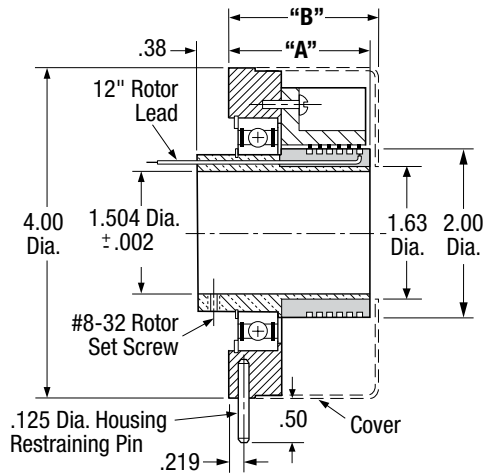
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TYPE	No. of Rings	Length "A" Inches	Length "B" Inches
2982	2	1.48	1.56
2983	3		
2984	4		
2986	6	1.72	1.81
2988	8	1.96	2.06
29810	10	2.20	2.31
29812	12	2.44	2.56
29814	14	2.68	2.81
29816	16	2.92	3.00
29820	20	3.40	3.50
29824	24	3.88	4.00



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 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.

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:

Type	Number of Brushes per Ring	Brush Grade Number	Options (If Applicable)
X	X (2BR or 4BR)	X *(FAG180)	X (10 amp, Vacuum, etc.)

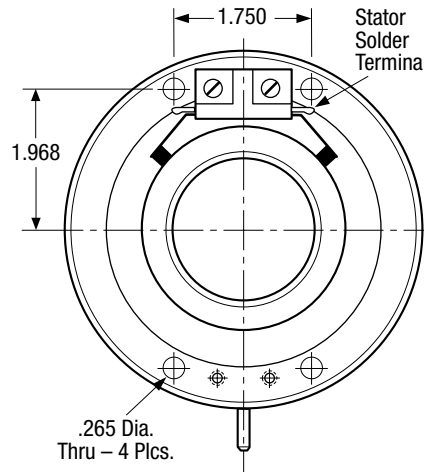
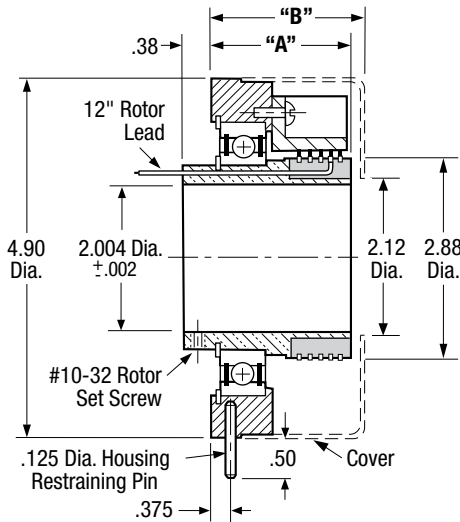
For additional ordering information see page 11.

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

Fabricast, Inc.® MANUFACTURER OF SLIP RING ASSEMBLIES

TELEPHONE: (626) 443-3247
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E-MAIL: sales@fabricast.com
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BEST COST • 2.004 INCH BORE • STOCK DELIVERY



TYPE	No. of Rings	Length "A" Inches	Length "B" Inches
3982	2	1.69	1.81
3983	3		
3984	4	1.93	2.06
3986	6		
3988	8	2.17	2.31
39810	10	2.41	2.56
39812	12	2.65	2.75
39814	14	2.89	3.00
39816	16	3.13	3.25
39820	20	3.61	3.75
39824	24	4.09	4.25



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.

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:

Type	Number of Brushes per Ring	Brush Grade Number	Options (If Applicable)
X	X	X	X
	(2BR or 4BR)	*(FAG180)	(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.

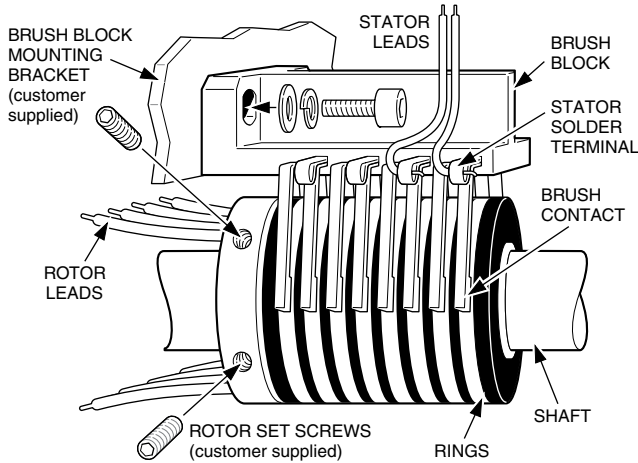
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MOUNTING METHODS

Separate Rotor & Brush Block Assembly .50 & 2.00 INCH DIAMETER THRU BORE

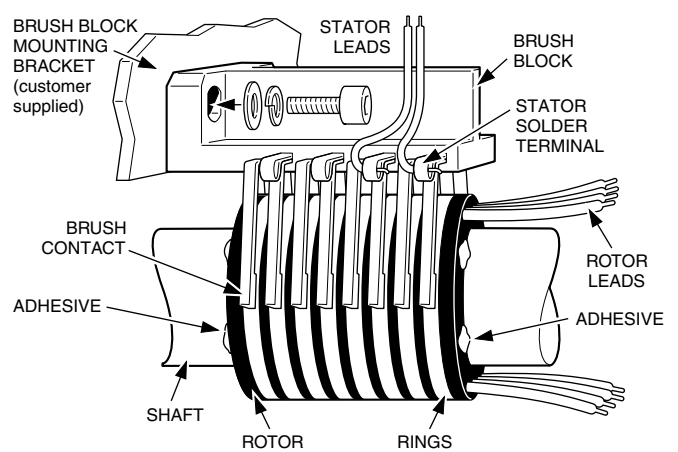
(Pages 1 and 4 – Aluminum Rotor Structure)



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.

Separate Rotor & Brush Block Assembly 1.00 & 1.50 INCH DIAMETER THRU BORE

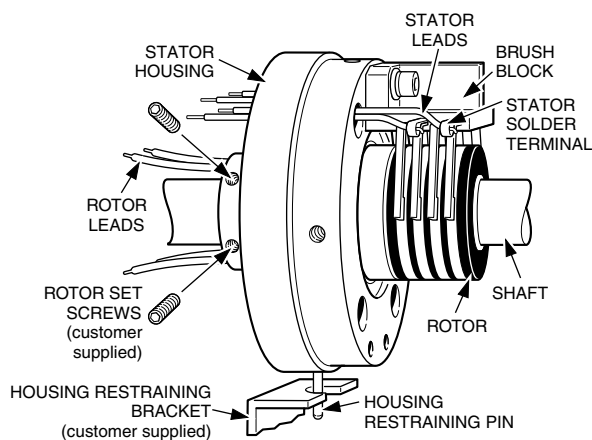
(Pages 2 and 3 – No Aluminum Rotor Structure)



1. Rigidly mount rotor to shaft using appropriate adhesive (epoxy, Loctite®, 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.

Self-Contained Assembly ROTOR RIGID / HOUSING FLOATING

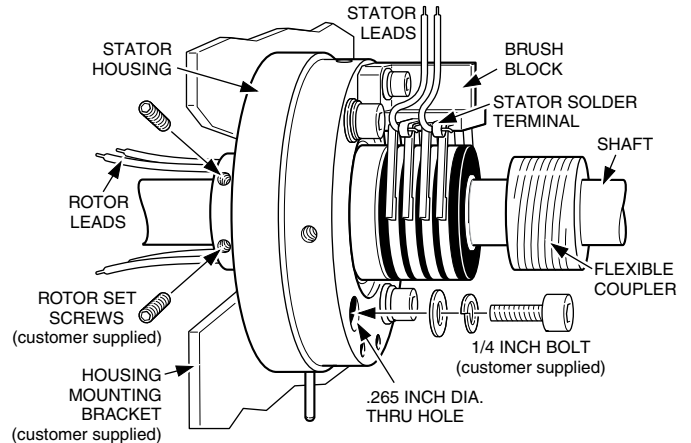
(Pages 5, 6, 7, and 8)



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.
4. Wire stator. See page 10.

Self-Contained Assembly HOUSING RIGID / ROTOR FLOATING

(Pages 5, 6, 7, and 8)



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).
3. Wire stator. See page 10.

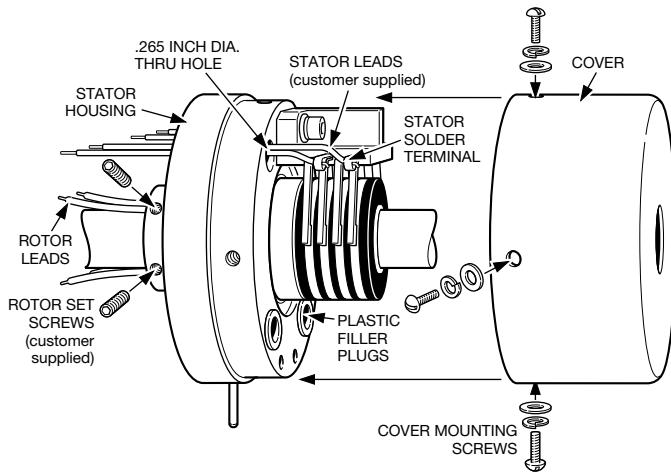
DO NOT RIGIDLY MOUNT ROTOR AND STATOR ON SELF-CONTAINED SLIP RINGS.

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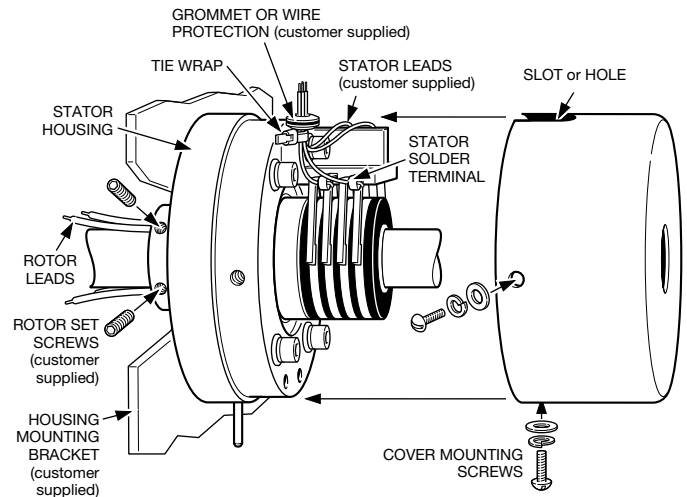
WIRING METHODS

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.

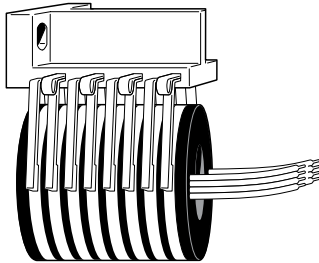
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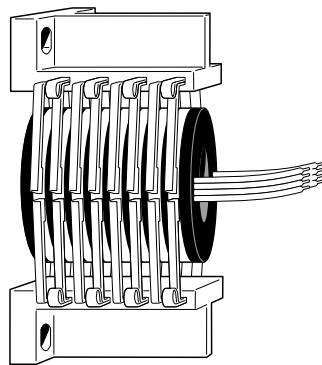
PART NUMBER CODING

Separate Rotor & Brush Block Assembly

COMPLETE ASSEMBLY



2BR
**Two (2) Brushes per Ring
Example:
P/N 1908-2BR-FAG180

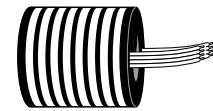


4BR
**Four (4) Brushes per Ring
Example:
P/N 1908-4BR-FAG180

COMPLETE ASSEMBLY PART NUMBER CODING:

Type	Number of Brushes per Ring	Brush Grade Number	Options (If Applicable)
X	X	X	X
Slip Ring Type (see pages 1 thru 4)	** (2BR or 4BR)	* (FAG180)	(10 amp, Vacuum, etc.)

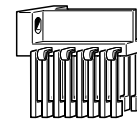
SEPARATE COMPONENTS



Example: P/N 1908-1

ROTOR PART NUMBER CODING:

Type	Universal Rotor Designation	Options (If Applicable)
X	1	X
Slip Ring Type (see pages 1 thru 4)	(Designation always - 1)	



Example: P/N 1908-2-FAG180

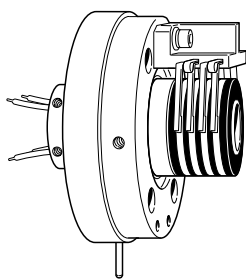
BRUSH BLOCK PART NUMBER CODING:

Type	Universal Brush Block Designation	Brush Grade Number
X	2	X
Slip Ring Type (see pages 1 thru 4)	(Designation always - 2)	* (FAG180)

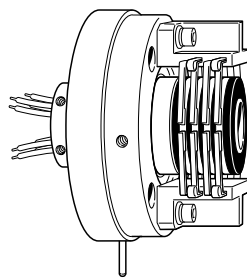
* Consult Fabricast for optional brush grades and characteristics (see page 14).
** Refer to pages 1 thru 4 for electrical characteristics of 2BR and 4BR.

Self-Contained Assembly

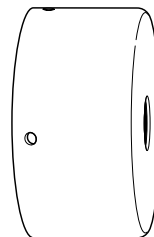
COMPLETE ASSEMBLY



2BR
**Two (2) Brushes per Ring
Example:
P/N 0984-2BR-FAG180



4BR
**Four (4) Brushes per Ring
Example:
P/N 0984-4BR-FAG180

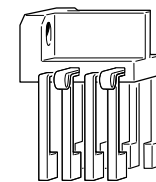


COVER
(included with self-contained assembly)

COMPLETE ASSEMBLY PART NUMBER CODING:

Type	Number of Brushes per Ring	Brush Grade Number	Options (If Applicable)
X	X	X	X
Slip Ring Type (see pages 5 thru 8)	** (2BR or 4BR)	* (FAG180)	(10 amp, Vacuum, etc.)

SEPARATE COMPONENT



Example: P/N 0984-2-FAG180

BRUSH BLOCK PART NUMBER CODING:

Type	Universal Brush Block Designation	Brush Grade Number
X	2	X
Slip Ring Type (see pages 5 thru 8)	(Designation always - 2)	* (FAG180)

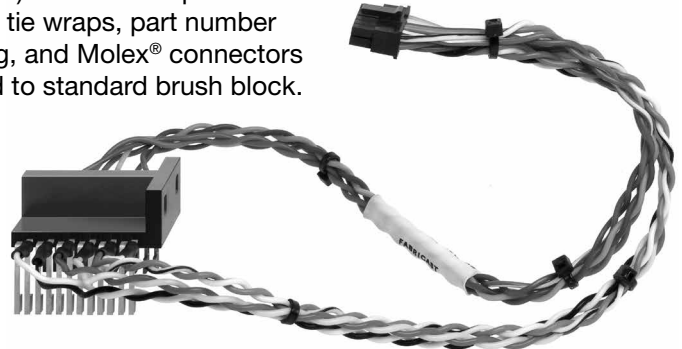
* Consult Fabricast for optional brush grades and characteristics (see page 14).
** Refer to pages 5 thru 8 for electrical characteristics of 2BR and 4BR.

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.

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

Consult Fabricast for specialty modifications to fit your application.

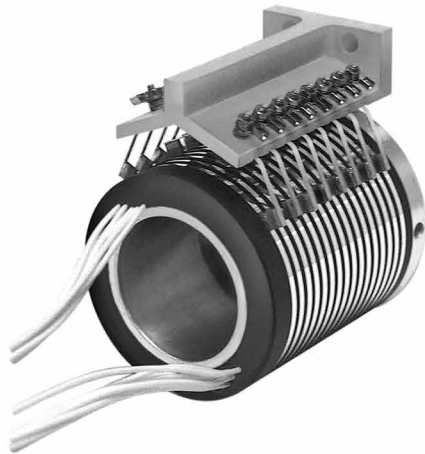
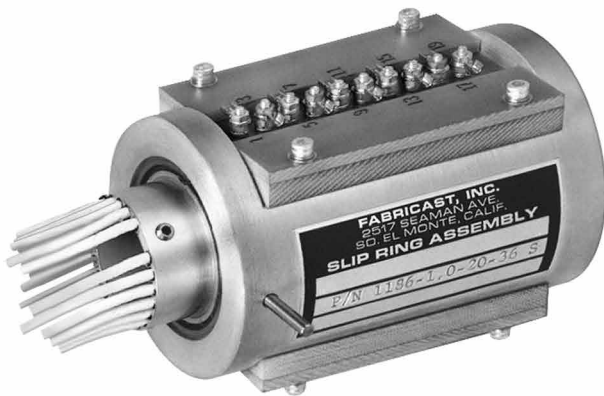
Fabricast, Inc.® MANUFACTURER OF SLIP RING ASSEMBLIES

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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**).



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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:

Brush Grade Number	Composition	Recommended Surface Speed	Carrying Capacity
FAG 180	80% Silver 20% Graphite	Up to 3500 feet per minute	250 amps per square inch
FAG 180A	80% Silver 20% Graphite plus MoS ₂	Up to 3500 feet per minute	250 amps per square inch
FAG 150	50% Silver 50% Graphite	Up to 6000 feet per minute	100 amps per square inch
FAG 150A	50% Silver 50% Graphite plus MoS ₂	Up to 6000 feet per minute	100 amps per square inch
FAG 193	93% Silver 7% Graphite	Up to 250 feet per minute	300 amps per square inch

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.

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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:	Type	Angle "X" (degrees)	Brush Grade Number	*Options (if applicable)
(Specify fully when ordering)	X _____	X _____	X _____	X _____

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.

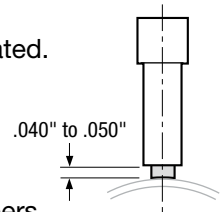
NOTE: ANGLE "X" DOES NOT APPLY TO TYPES 1799, 1120051, AND 8115.

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:

		BRUSH GRADE				
		FAG 180	FAG 150	FAG 180A	FAG 150A	FAG 193
BRUSH SIZE	3/32" Square	1072-1	1072-5	1072-11	1072-10	1072-14
	1/8" Square	1072-2	1072-6	1072-13	1072-12	1072-15
	3/16" x 1/4"	1913-1	1913-2	1913-3	1913-4	1913-5
	** 1/4" x 1/2"	1092003	1092003-31	1092003-29	1092003-27	1092003-25
	*** 1/4" x 1/2"	1991-1	1991-2	1991-3	1991-4	1991-5

** FOR USE WITH BRUSH HOLDER P/N 1092006

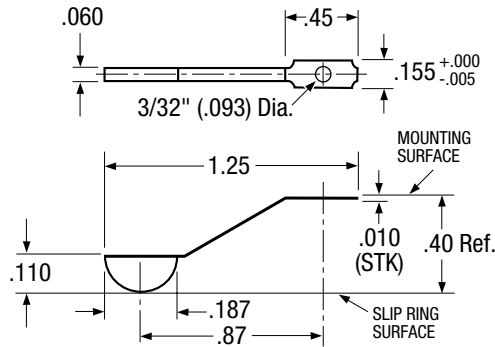
*** FOR USE WITH BRUSH HOLDER P/N 1092012

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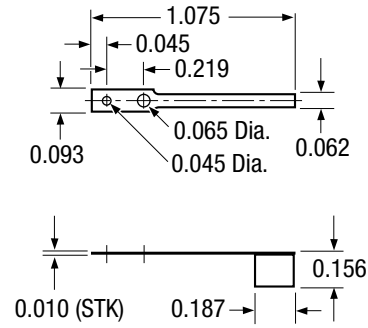
2 AMP CAPACITY • SINGLE BRUSH

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



TYPE 1799

*ANGLE "X" NOT APPLICABLE.

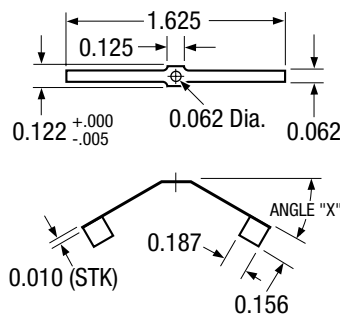


TYPE 1120051

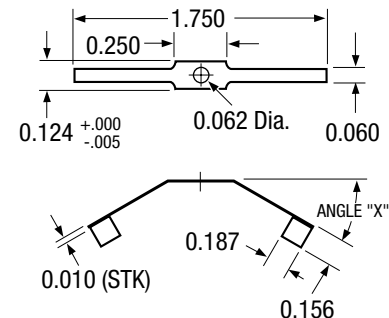
*ANGLE "X" NOT APPLICABLE.

5 AMP CAPACITY • DOUBLE BRUSH

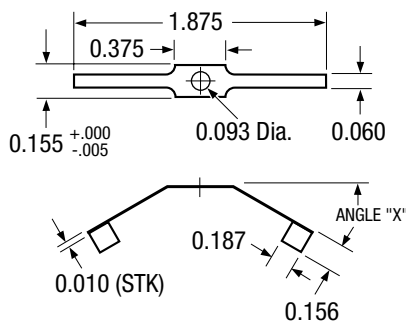
BRUSH .040 WIDE • BRUSH MATERIAL - FAG 180 (80% AG - 20% C) • LEAF MATERIAL - BECU



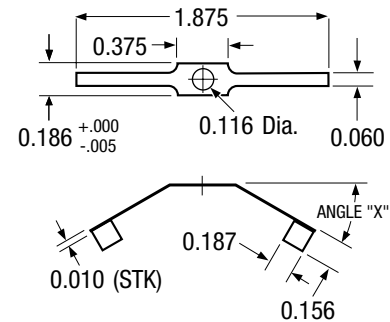
TYPE 1103004



TYPE 1050006-13



TYPE 1050006-5



TYPE 1050006-2

PART NUMBER CODING:

(SPECIFY FULLY WHEN ORDERING).

Type	*Angle "X" (degrees)	Brush Grade Number	Options (if applicable)
X	X	X	X

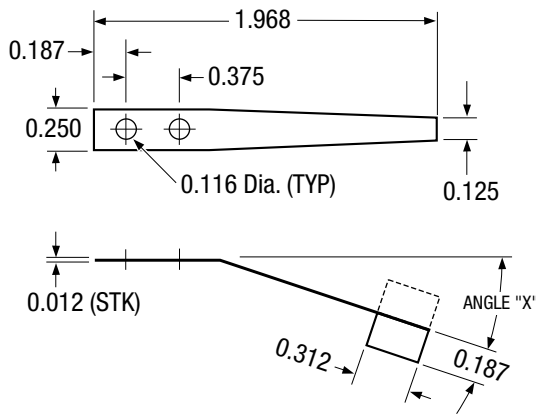
FOR FURTHER INFORMATION ON PART NUMBER CODING, OPTIONAL BRUSH CONTACT MATERIALS, DETERMINATION OF ANGLE "X", AND OPTIONS SEE PAGES 14 AND 15.

Fabricast, Inc.® MANUFACTURER OF SLIP RING ASSEMBLIES

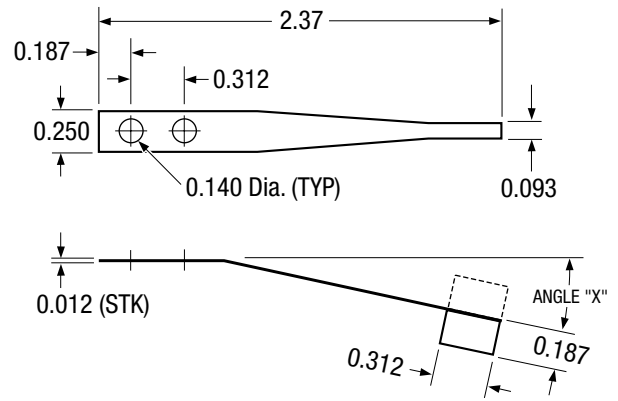
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5 AMP CAPACITY • SINGLE BRUSH

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



TYPE 1052005

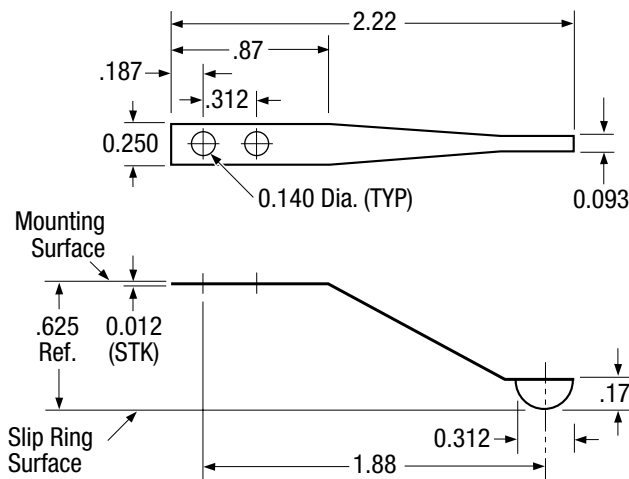


TYPE 1117003

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

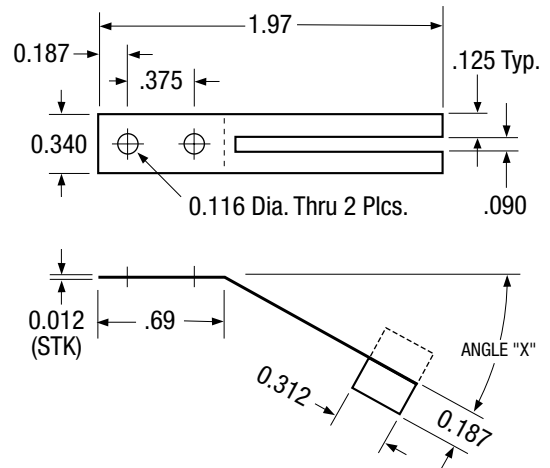


TYPE 8115

*ANGLE "X" NOT APPLICABLE.

10 AMP CAPACITY • DOUBLE BRUSH

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



TYPE 8091

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

PART NUMBER CODING:

(SPECIFY FULLY WHEN ORDERING).

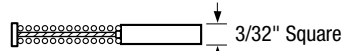
Type	*Angle "X" (degrees)	Brush Grade Number	Options (if applicable)
X	X	X	X

FOR FURTHER INFORMATION ON PART NUMBER CODING, OPTIONAL BRUSH CONTACT MATERIALS, DETERMINATION OF ANGLE "X", AND OPTIONS SEE PAGE 14 AND 15.

Fabricast, Inc.® MANUFACTURER OF SLIP RING ASSEMBLIES

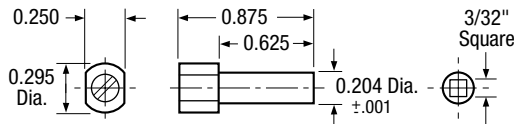
TELEPHONE: (626) 443-3247
 FAX: (626) 443-5594
 E-MAIL: sales@fabricast.com
 WEB SITE: www.fabricast.com

2.5 AMP CAPACITY • 3/32" SQUARE



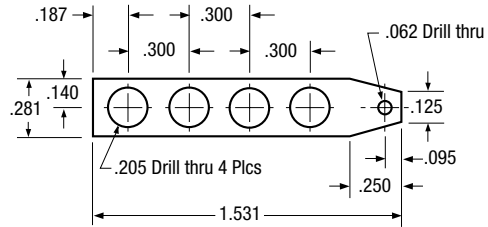
BRUSH ASSEMBLY • P/N 1072-1

*Material: FAG 180 (80% Ag - 20% C)



HOLDER ASSEMBLY • P/N 1070004

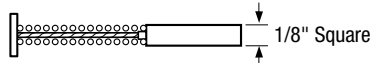
Material: Brass, tin plated (*brass cap included*)



BUSS ASSEMBLY • P/N 1070011-7

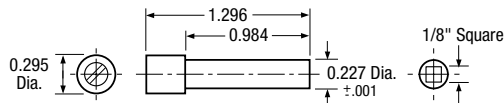
Material: .020 thick BeCu, tin plated

4 AMP CAPACITY • 1/8" SQUARE



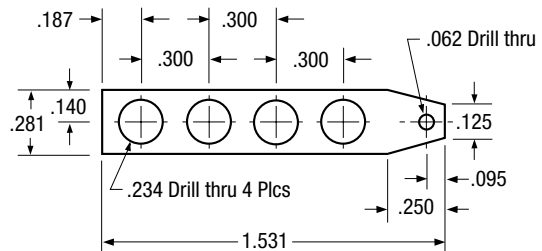
BRUSH ASSEMBLY • P/N 1072-2

*Material: FAG 180 (80% Ag - 20% C)



HOLDER ASSEMBLY • P/N 1051032

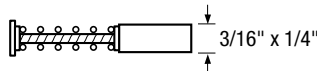
Material: Brass, tin plated (*brass cap included*)



BUSS ASSEMBLY • P/N 1070011-9

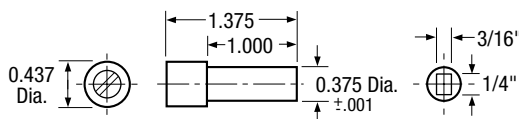
Material: .020 thick BeCu, tin plated

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



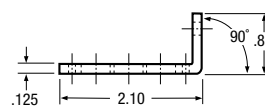
BRUSH ASSEMBLY • P/N 1913-1

*Material: FAG 180 (80% Ag - 20% C)

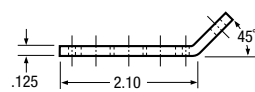


HOLDER ASSEMBLY • P/N 1913002

Material: Brass, tin plated
(*brass cap included*)

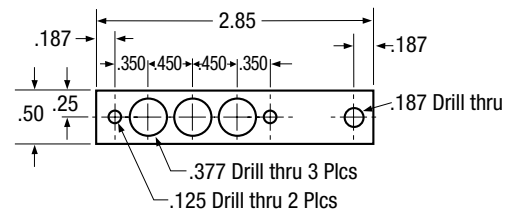


P/N 1913003-9



P/N 1913003-11

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

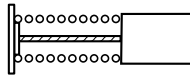


FLAT BUSS ASSEMBLY • P/N 1913003-7

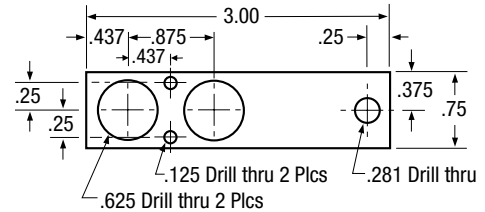
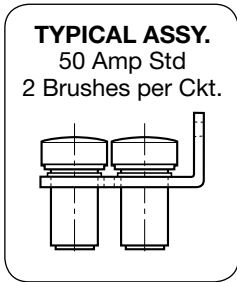
Material: .125 thick Copper, tin plated

For further information on part number coding and optional brush contact materials see pages 14 and 15.

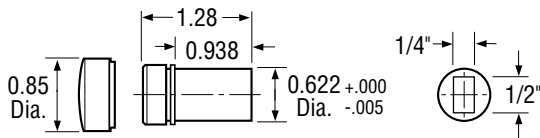
25 AMP CAPACITY • 1/4" X 1/2" RECTANGULAR



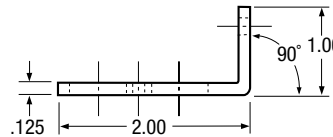
BRUSH ASSEMBLY • P/N 1092003
*Material: FAG 180 (80% Ag - 20% C)



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)



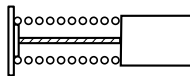
P/N 1092007-9



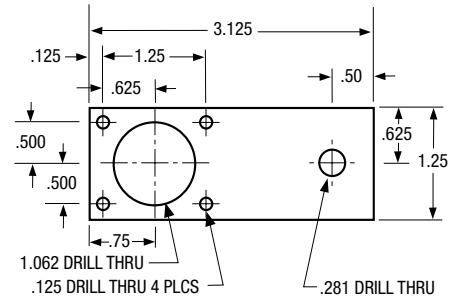
P/N 1092007-11

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

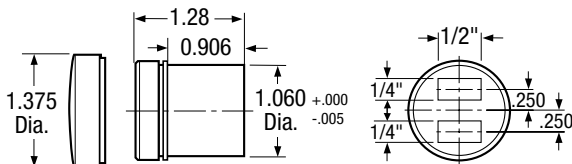
50 AMP CAPACITY • TWO EACH 1/4" X 1/2" RECTANGULAR



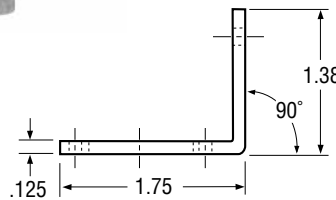
BRUSH ASSEMBLY • P/N 1991-1
*Material: FAG 180 (80% Ag - 20% C)
Two each per holder



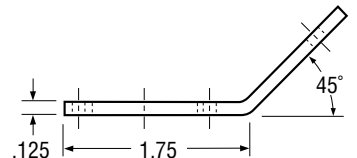
FLAT BUSS ASSEMBLY • P/N 1092014-7
Material: .125 thick Copper, tin plated



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



P/N 1092014-9



P/N 1092014-11

ANGLE 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 web site (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 _____

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