AC7094

1/2 inch through-bore miniature slip ring capsule

Description

A slip ring capsule can be used in any electromechanical system that requires unrestrained, intermittent or continuous rotation while transferring power and / or data. A slip ring is also called a rotary electrical joint, collector, commutator or swivel. A slip ring can improve system performance by simplifying operations and eliminating damage prone wires.

The AC7094 provides an economical, readily available solution when a compact through-bore configuration is required. This unit provides a 1/2 inch through-bore for routing of hydraulic or pneumatic lines, and a compact 2.1 inch outside diameter. The AC7094 provides 5 amp circuits in 30, 36, 42 and 48 ring configurations. Similar in design to our very popular AC4598 and AC6200 series, this design features long life, fiber brush contact technology for ultimate performance in many challenging applications.

Features

- 1/2 inch through-bore
- Compact 2.1 inch outside diameter
- Speeds up to 250 rpm continuous
- Multiple circuit configurations
- Continuous rotation of power and / or data signals
- High-impact thermoplastic construction
- Gold plated rings

Benefits

- Transfers power, as well as analog and digital signals
- Compatible with data bus protocols
- Fiber brush technology provides long life and maintenance free operation
- Compact packaging

Typical Applications

- Precision rotary equipment
- Semiconductor handling systems
- Industrial machinery
- Robotics

AC7094 Specifications	
Operating Speed	250 rpm* continuous
Number of Circuits	30, 36, 42 or 48
Lead Length	12 inch standard
Lead Size / Type	22 AWG, 7 strand
Voltage	250 AC / DC
Operating Temp.	-40°C to +80°C
Current Rating	5 amps / circuit
Electrical Noise	100 milliohms max. @ 6 VDC, 50 milliamps when running @ 5 rpm

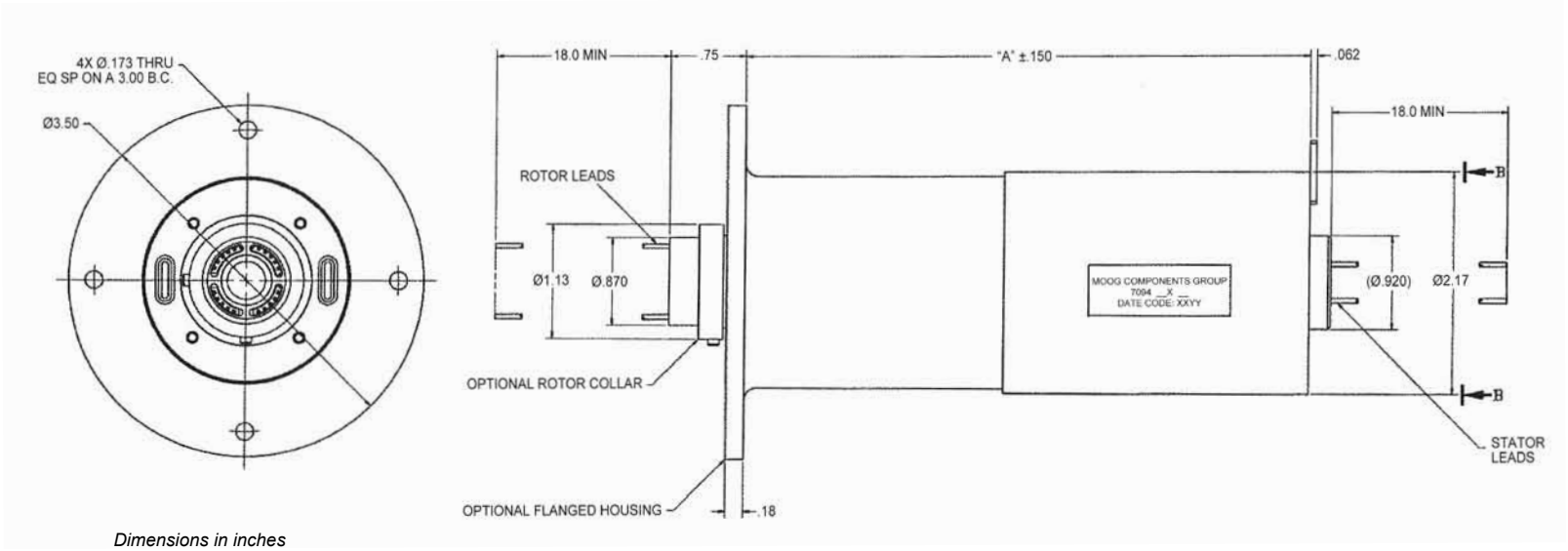
Options
• 24, 36 and 48 inch leads • Alternate lead exits

**Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature.*

Wire Color Code									
Ring #	Color	Ring #	Color	Ring #	Color	Ring #	Color	Ring #	Color
1	BLK	11	WHT / BLK	21	WHT / BLK / RED	31	BLU	41	WHT / BLU
2	BRN	12	WHT / BRN	22	WHT / BLK / ORN	32	VIO	42	WHT / VIO
3	RED	13	WHT / RED	23	WHT / BLK / YEL	33	GRY	43	WHT / GRY
4	ORN	14	WHT / ORN	24	WHT / BLK / GRN	34	WHT	44	WHT / BLK / BRN
5	YEL	15	WHT / YEL	25	BLK	35	WHT / BLK	45	WHT / BLK / RED
6	GRN	16	WHT / GRN	26	BRN	36	WHT / BRN	46	WHT / BLK / ORN
7	BLU	17	WHT / BLU	27	RED	37	WHT / RED	47	WHT / BLK / YEL
8	VIO	18	WHT / VIO	28	ORN	38	WHT / ORN	48	WHT / BLK / GRN
9	GRY	19	WHT / GRY	29	YEL	39	WHT / YEL		
10	WHT	20	WHT / BLK / BRN	30	GRN	40	WHT / GRN		

Part Number	Dimension “A”
AC7094-130	5.016 inch (127,4 mm)
AC7094-136	5.574 (141,6)
AC7094-142	6.132 (155,8)
AC7094-148	6.690 (169,9)

AC7094 Dimensions



Dimensions in inches