AC6305
AC6310

Compact in various circuit configurations

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, commutator, collector, swivel or an electrical rotary joint.

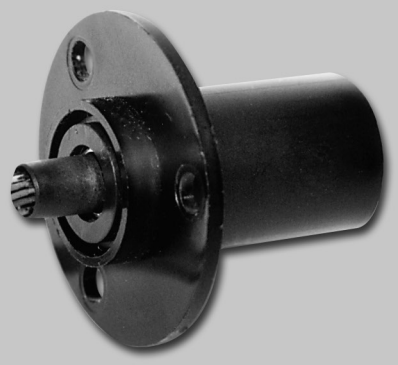
The AC6305 provides three, 5 amp circuits combined with 6, 9, or 12 signal (2 amp max) circuits. The AC6310 provides three, 10 amp circuits and 3 or 6 signal circuits. This compact power and signal handling design provides unique capability for many challenging applications.

Features

- 6, 9, 12 and 15 circuit models
- 5 amp / 2 amp and 10 amp / 2 amp circuit combinations
- Precision ball bearings meet or exceed life requirements for most commercial applications
- Speeds up to 250 rpm
- Compact size: 1.38 inch long
- Gold
- 12, 24, 36, 48 inch standard lead lengths (longer lead lengths are available)
- Sealed units are also available (dust and light splash only)
- Flexible silver-plated copper, color-coded, Teflon® insulated lead wires
- Compatible with data bus protocols
- Also available with 6, 12, 18, and 24, 2 amp rings. Please refer to AC6023 data sheet.

Benefits

- Smooth running
- Low torque
- Compact
- Very low noise (electrical)
- Quick shipment



Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
  - Indexing tables
  - Robotics (end-effectors, arms, vision systems, sensors)
- Exhibit / display equipment
- Medical equipment

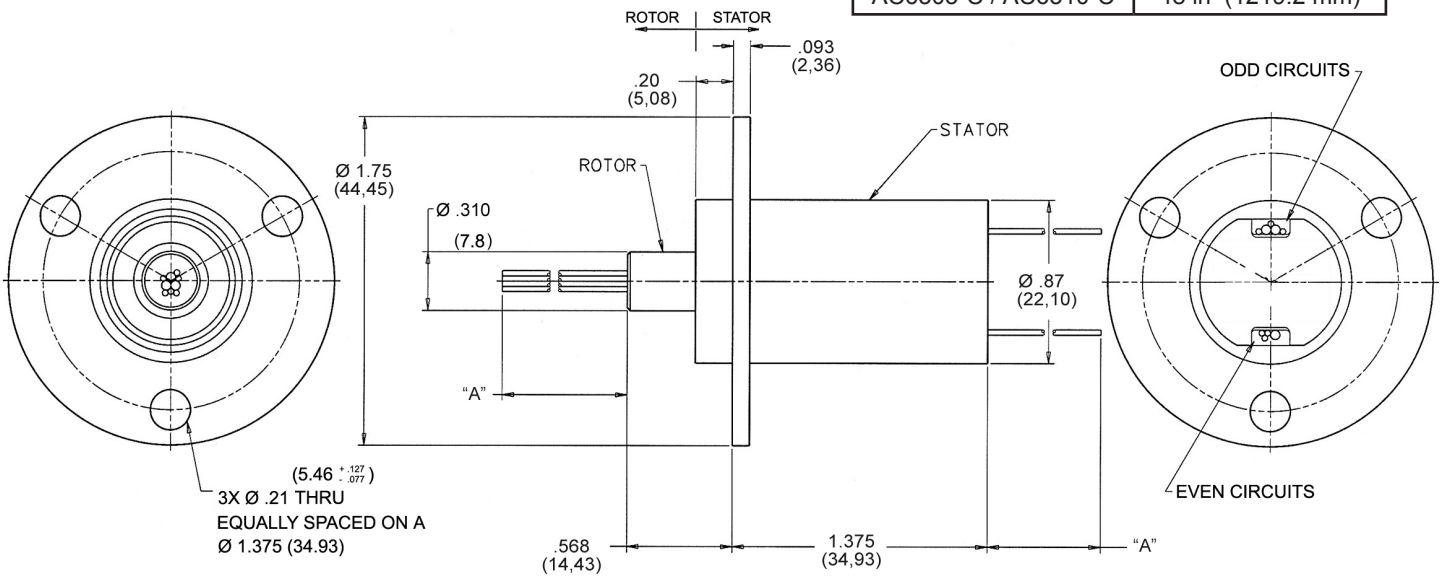
Specifications	AC6305	AC6310	Options
Operating Speed	250 rpm*	250 rpm*	• Splash seals for dust and moisture resistance • Metal housings with and without flanges
Number of Circuits	3 @ 5 amps and 6, 9, or 12 @ 2 amps	3 @ 10 amps and 3 or 6 @ 2 amps	
Lead Lengths	12, 24, 36 and 48 inches	12, 24, 36 and 48 inches	
Lead Size / Type	2 amp, 26 gauge silver plated copper, Teflon® 5 amp, 20 gauge silver plated copper, Teflon®	2 amp, 26 gauge silver plated copper, Teflon® 10 amp,16 gauge tin plated copper, Teflon®	
Voltage	240 VAC	240 VAC	
Max Ambient Temp.	-40°C to +80°C	-40°C to +80°C	
Contact Material	Gold	Gold	
Current Rating	5 amps and 2 amps / circuit	10 amps and 2 amps / circuit	
Noise	60 milliohms max.	60 milliohms max.	

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

AC6305 Lead Wire Color Codes					AC6310 Lead Wire Color Codes				
	Ring #	Color Code	Ring #	Color Code		Ring #	Color Code	Ring #	Color Code
20 AWG TAGGED LEADS	1	BLK	9	GRN	16 AWG TAGGED LEADS	1	BLK	9	GRN
	2	BLK	10	BLU		2	BLK		
	3	BLK	11	VIO		3	BLK		
	4	BLK	12	GRY		4	BLK		
	5	BRN	13	WHT		5	BRN		
	6	RED	14	WHT-BLK		6	RED		
	7	ORN	15	WHT-BRN		7	ORN		
	8	YEL				8	YEL		

AC6305 / AC6310 Dimensions

Part Number	"A"
AC6305 / AC6310	12 in (304.8 mm)
AC6305-A / AC6310-A	24 in (609.6 mm)
AC6305-B / AC6310-B	36 in (914.4 mm)
AC6305-C / AC6310-C	48 in (1219.2 mm)



Dimensions in inches (millimeters)