

# H120215 Series



H120215 series standard precise slip ring , integrated structure design, with through hole 120mm , OD215mm , suitable for rotating application which requires a through hole  $\leq 120\text{mm}$  ( remark: if need a hole  $< 120\text{mm}$ , can add a inner bushing)

## Part No. description

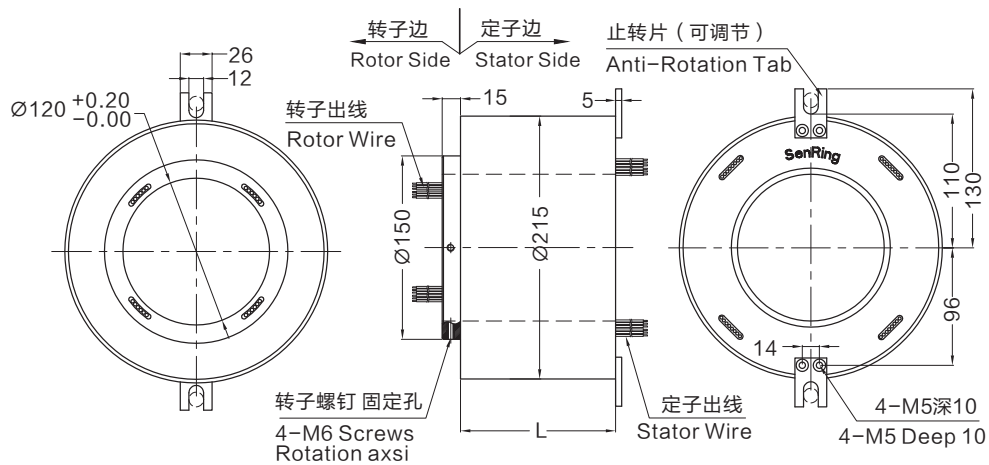
H120215 - Power circuits no. - Signal circuits no. - Eproduct grade

H:through hole slip ring  
120215:ID 120mm, OD 215mm

Example:  
0610:6 circuits,10A per circuit  
1220:2circuits,10A per circuit

Example:  
C: standard level  
D:Industrial level  
H:High quality level

Example:  
06S:6circuits signal (0~2A)  
12S:12circuits signal (0~2A)



## Standard Model List

| H120215 series model list |         |              |              |                  |         |              |              |
|---------------------------|---------|--------------|--------------|------------------|---------|--------------|--------------|
| Part no.                  | Circuit |              | Length L(mm) | Part no.         | Circuit |              | Length L(mm) |
|                           | 10A     | Signal or 5A |              |                  | 10A     | Signal or 5A |              |
| H120215-02S               | 0       | 2            | 56           | H120215-36S      | 0       | 36           | 192          |
| H120215-0210              | 2       | 0            | 56           | H120215-0610-30S | 6       | 30           | 192          |
| H120215-03S               | 0       | 3            | 60           | H120215-1210-S24 | 12      | 24           | 192          |
| H120215-0310              | 3       | 0            | 60           | H120215-3610     | 36      | 0            | 192          |
| H120215-06S               | 0       | 6            | 72           | H120215-42S      | 0       | 42           | 216          |
| H120215-0210-04S          | 2       | 4            | 72           | H120215-0610-36S | 6       | 36           | 216          |
| H120215-0410-02S          | 4       | 2            | 72           | H120215-1210-30S | 12      | 30           | 216          |
| H120215-0610              | 6       | 0            | 72           | H120215-4210     | 42      | 0            | 216          |
| H120215-12S               | 0       | 12           | 96           | H120215-48S      | 0       | 48           | 240          |
| H120215-0210-10S          | 2       | 10           | 96           | H120215-0610-42S | 6       | 42           | 240          |
| H120215-0310-09S          | 3       | 9            | 96           | H120215-1210-36S | 12      | 36           | 240          |
| H120215-0610-06S          | 6       | 6            | 96           | H120215-1810-30S | 18      | 30           | 240          |
| H120215-0810-04S          | 8       | 4            | 96           | H120215-2410-24S | 24      | 24           | 240          |
| H120215-1010-02S          | 10      | 2            | 96           | H120215-4810     | 48      | 0            | 240          |
| H120215-1210              | 12      | 0            | 96           | H120215-60S      | 0       | 60           | 288          |
| H120215-18S               | 0       | 18           | 120          | H120215-0610-54S | 6       | 54           | 288          |
| H120215-0210-16S          | 2       | 16           | 120          | H120215-0910-51S | 9       | 51           | 288          |
| H120215-0410-14S          | 4       | 14           | 120          | H120215-1210-48S | 12      | 48           | 288          |
| H120215-0610-12S          | 6       | 12           | 120          | H120215-2410-36S | 24      | 36           | 288          |
| H120215-0810-10S          | 8       | 10           | 120          | H120215-72S      | 0       | 72           | 336          |

| Part no.         | 10A | Signal or 5A | Length L(mm) | Part no.         | 10A | Signal or 5A | Length L(mm) |
|------------------|-----|--------------|--------------|------------------|-----|--------------|--------------|
| H120215-1010-08S | 10  | 8            | 120          | H120215-1210-60S | 12  | 60           | 336          |
| H120215-1210-06S | 12  | 6            | 120          | H120215-2410-48S | 24  | 48           | 336          |
| H120215-1410-04S | 14  | 4            | 120          | H120215-3610-36S | 36  | 36           | 336          |
| H120215-1610-02S | 16  | 2            | 120          | H120215-84S      | 0   | 84           | 384          |
| H120215-24S      | 0   | 24           | 144          | H120215-1210-72S | 12  | 72           | 384          |
| H120215-0410-20S | 4   | 20           | 144          | H120215-2410-60S | 24  | 60           | 384          |
| H120215-0610-18S | 6   | 18           | 144          | H120215-3610-48S | 36  | 48           | 384          |
| H120215-1210-12S | 12  | 12           | 144          | H120215-96S      | 0   | 96           | 434          |
| H120215-1810-06S | 18  | 6            | 144          | H120215-1210-84S | 12  | 84           | 434          |
| H120215-2410     | 24  | 0            | 144          | H120215-2410-72S | 24  | 72           | 434          |
| H120215-30S      | 0   | 30           | 168          | H120215-3610-60S | 36  | 60           | 434          |
| H120215-0610-24S | 6   | 24           | 168          | H120215-4210-54S | 42  | 54           | 434          |
| H120215-1210-18S | 12  | 18           | 168          | H120215-108S     | 0   | 108          | 480          |
| H120215-1810-12S | 18  | 12           | 168          | H120215-1210-96S | 12  | 96           | 480          |
| H120215-2410-06S | 24  | 6            | 168          | H120215-2410-84S | 24  | 84           | 480          |
| H120215-3010     | 30  | 0            | 168          | H120215-3610-72S | 36  | 72           | 480          |

\*Remark: Circuits can be combined in parallel for bigger current, N circuits of 10A to get N\*10A, such as 2 circuits of 10A in parallel for 20A use. 10A circuits No. and signal circuits (5A) No. can be customized based on standard products, pls inquiry Senring for details.

### Technical Specification

| Mechanical       |                                  | Electrical            |                                   |                                |
|------------------|----------------------------------|-----------------------|-----------------------------------|--------------------------------|
| Spec             | Data                             | Spec                  | Data                              |                                |
| Working life     | pls refer to product grade table |                       | Power                             | Signal                         |
| Rotating speed   | pls refer to product grade table | Rated voltage         | 0~690VAC/VDC                      | 0~440VAC/VDC                   |
| Working temp.    | -30°C~80°C                       | Insulation resistance | ≥1000mΩ/500VDC                    | ≥1000mΩ/500VDC                 |
| Work humidity    | 0~85% RH                         | Lead wire spec        | AWG17#<br>Silver-plated teflon    | AWG22#<br>Silver-plated teflon |
| Contact material | pls refer to produce grade table | Lead wire length      | standard 300mm(can be customized) |                                |
| Housing material | AL alloy                         | Dielectric Strength   | 800VAC@50Hz,60s                   |                                |
| Torque           | 0.1N.m (+0.03N.m/6circuits)      | Electrical noise      | <0.01Ω                            |                                |
| IP grade         | IP51                             |                       |                                   |                                |

### Product Grade Table

| Grade code    | Max rotating speed | Working life           | Contact material |
|---------------|--------------------|------------------------|------------------|
| C: standard   | 250RPM             | 20millions revolutions | precious metal   |
| D: industrial | 600RPM             | 80millions revolutions | precious metal   |

### Color code of Lead Wire

|       |         |         |         |         |         |         |         |         |         |         |         |             |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|
| ring# | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12          |
| color | BLK     | BRN     | RED     | ORG     | YEL     | GRN     | BLU     | PUR     | GRY     | WHT     | PINK    | LGT BLU     |
| ring# | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24          |
| color | WHT/BLK | WHT/BRN | WHT/RED | WHT/ORG | WHT/YEL | WHT/GRN | WHT/BLU | WHT/PUR | WHT/GRY | BLK/RED | BLK/BRN | Transparent |

Remark: "1" : the first wire from rotor side , H120215-06S wire color sequence: BLK/BRN/RED/ORG/WHT/GRN , 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....