



# Core & Coil (71A) MH ~LT~ 175W

## CORE & COIL HID 71A5390001D

The basic ballast is the open core and coil which is most often used as a component within a lighting luminaire. The core and coil also forms the nucleus of Philips Advance's five other ballast configurations.

### Product data

| General Information                |                   |
|------------------------------------|-------------------|
| ANSI Code                          | M90-M140          |
| Lamp Type                          | 100 MH            |
| Number of Lamps                    | 1 piece/unit      |
| Circuit Type                       | HX-HPF            |
| Ballast Type                       | Magnetic HID      |
| Base Model                         | 71A5390           |
| Core Size                          | 3 X 4 (2 LW)      |
| Suitable For Outdoor Use           | Yes               |
| Ignitor Catalog Number             | LI533-H4          |
| Ignitor Temperature Rating         | 105°C             |
| Capacitor Value                    | 12 MFD            |
| Capacitor Catalog Number           | 7C120M30RA        |
| Capacitor Requirements             | 280V              |
| Capacitor Temperature Rating       | 105°C             |
| Capacitor Diameter/Oval Dimensions | 1.65 in           |
| Capacitor Height                   | 2.75 in           |
| Automatic Restart                  | No                |
| Operating and Electrical           |                   |
| Input Voltage                      | 120/208/240/277 V |

| Input Frequency                         | 60 Hz                                     |
|---|---|
| Input Current (Open Circuit)            | 2.5/1.5/1.3/1.12 A                        |
| Input Current (Starting)                | 1.24/0.54/0.45/0.4 A                      |
| Input Current (Short Circuit)           | 0.63-0.95/0.43-0.65/0.37-0.55/0.29-0.44 A |
| Secondary Short Circuit Current         | 1.35-1.7 A                                |
| Constant Wattage Deviation              | 12%                                       |
| Ballast Factor (Nom)                    | 1   |
| Power Factor (Nom)                      | 0.90                                      |
| Open Circuit Voltage                    | 260 V                                     |
| Input Current (Nom)                     | 1.15/0.66/0.58/0.5 A A                    |
| Input Power (Nom)                       | 129 W                                     |
| Rated Lamp Power                        | 100 W                                     |
| Wiring                                  |   |
| Wire Striplength                        | 0.5 mm                                    |
| Wire Length by Color                    | 12"                                       |
| Wire Type                               | Stranded                                  |
| Remote Wiring Configuration Allowed     | Yes                                       |
| Max Ballast-Lamp Distance Remote Wiring | 20'                                       |
| Recommended Fuse Value                  | 10/5/5/4 A                                |

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### Approval and Application

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Open Circuit Voltage Test (Volts) | 240-300 V                          |
| Approval Marks                    | ULR CSA certificate RoHS Compliant |
| Temperature Marking               | B/B/A/A                            |
| UL Recognized                     | Yes                                |
| Hipot Test (1 Minute)             | 2000 V                             |
| Hipot Test (2 Seconds)            | 2500 V                             |
| UL Insulation Class               | H(180°C)                           |
| UL Temperature Code               | 1029B                              |

### Product Data

|                                 |                             |
|---------------------------------|-----------------------------|
| Order product name              | CORE & COIL HID 71A5390001D |
| EAN/UPC - Product               | 781087017838                |
| Order code                      | 913700533009                |
| Numerator - Quantity Per Pack   | 1                           |
| Numerator - Packs per outer box | 1                           |
| Material Nr. (12NC)             | 913700533009                |
| Net Weight (Piece)              | 2.541 kg                    |

### Dimensional drawing



MH BAL 100W 90/140 QUAD KIT

| Product                     | C1      | C2     | A1     | A2     | B1     | B2     |
|-----------------------------|---------|--------|--------|--------|--------|--------|
| CORE & COIL HID 71A5390001D | 3.07 in | 1.5 in | 3.9 in | 3.5 in | 2.8 in | 2.4 in |





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| General Information                |                   | Input Frequency                         |   |
|------------------------------------|-------------------|---|---|
| ANSI Code                          | M90-M140          | Input Frequency                         | 60 Hz                                     |
| Lamp Type                          | 100 MH            | Input Current (Open Circuit)            | 2.5/1.5/1.3/1.12 A                        |
| Number of Lamps                    | 1 piece/unit      | Input Current (Starting)                | 1.24/0.54/0.45/0.4 A                      |
| Circuit Type                       | HX-HPF            | Input Current (Short Circuit)           | 0.63-0.95/0.43-0.65/0.37-0.55/0.29-0.44 A |
| Ballast Type                       | Magnetic HID      | Secondary Short Circuit Current         | 1.35-1.7 A                                |
| Base Model                         | 71A5390           | Constant Wattage Deviation              | 12%                                       |
| Core Size                          | 3 X 4 (2 LW)      | Ballast Factor (Nom)                    | 1   |
| Suitable For Outdoor Use           | Yes               | Power Factor (Nom)                      | 0.90                                      |
| Ignitor Catalog Number             | LI533-H4          | Open Circuit Voltage                    | 260 V                                     |
| Ignitor Temperature Rating         | 105°C             | Input Current (Nom)                     | 1.15/0.66/0.58/0.5 A A                    |
| Capacitor Value                    | 12 MFD            | Input Power (Nom)                       | 129 W                                     |
| Capacitor Catalog Number           | 7C120M30RA        | Rated Lamp Power                        | 100 W                                     |
| Capacitor Requirements             | 280V              | <b>Wiring</b>                           |   |
| Capacitor Temperature Rating       | 105°C             | Wire Striplength                        | 0.5 mm                                    |
| Capacitor Diameter/Oval Dimensions | 1.65 in           | Wire Length by Color                    | 12"                                       |
| Capacitor Height                   | 2.75 in           | Wire Type                               | Stranded                                  |
| Automatic Restart                  | No                | Remote Wiring Configuration Allowed     | Yes                                       |
| <b>Operating and Electrical</b>    |                   | Max Ballast-Lamp Distance Remote Wiring | 20'                                       |
| Input Voltage                      | 120/208/240/277 V | Recommended Fuse Value                  | 10/5/5/4 A                                |

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