



# Core & Coil (71A) MH 175W - 450W

## CORE & COIL HID MH BAL 250W M58 QUAD C&C

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                          | M58               |  |  |  |
| Lamp Type                          | 250W MH           |  |  |  |
| Number of Lamps                    | 1 piece/unit      |  |  |  |
| Circuit Type                       | CWA               |  |  |  |
| Ballast Type                       | Magnetic HID      |  |  |  |
| Base Model                         | 71A5791           |  |  |  |
| Core Size                          | 3 X 4 (2 coil)    |  |  |  |
| Suitable For Outdoor Use           | Yes               |  |  |  |
| Ignitor Catalog Number             | NA                |  |  |  |
| Ignitor Temperature Rating         | NA                |  |  |  |
| Capacitor Value                    | 15 MFD            |  |  |  |
| Capacitor Catalog Number           | 7C150P40R         |  |  |  |
| Capacitor Requirements             | 400V              |  |  |  |
| Capacitor Temperature Rating       | 105°C             |  |  |  |
| Capacitor Diameter/Oval Dimensions | 1.75 in           |  |  |  |
| Capacitor Height                   | 3.75 in           |  |  |  |
| Automatic Restart                  | No                |  |  |  |
|                                    |                   |  |  |  |
| Operating and Electrical           |                   |  |  |  |
| Input Voltage                      | 120/208/240/277 V |  |  |  |
| ·                                  |                   |  |  |  |

| Input Current (Open Circuit) Input Current (Starting) Input Current (Short Circuit) Input Current (Short Circuit Current 2-3 A  Constant Wattage Deviation Ballast Factor (Nom) Input Current (Nom) Input Power (Nom) Input Powe | Input Frequency                     | 60 Hz                            |
|--|-------------------------------------|----------------------------------|
| Input Current (Short Circuit)  1.2-1.8/0.7-1/0.6-0.9/0.5-0.75 A  Secondary Short Circuit Current  2-3 A  Constant Wattage Deviation  8%  Ballast Factor (Nom)  1  Power Factor (Nom)  Open Circuit Voltage  300 V  Input Current (Nom)  2.6/1.5/1.3/1.1 A A  Input Power (Nom)  294 W  Rated Lamp Power  250 W  Wiring  Wire Striplength  0.5 mm  Wire Length by Color  12"  Wire Type  Stranded  Remote Wiring Configuration Allowed  Remote Wiring Configuration Allowed  Max Ballast-Lamp Distance Remote  Determined by AWG used   | Input Current (Open Circuit)        | 2.6/1.5/1.3/1.1 A                |
| Secondary Short Circuit Current 2-3 A  Constant Wattage Deviation 8%  Ballast Factor (Nom) 1  Power Factor (Nom) 0.90  Open Circuit Voltage 300 V  Input Current (Nom) 2.6/1.5/1.3/1.1 A A  Input Power (Nom) 294 W  Rated Lamp Power 250 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 Determined by AWG used   | Input Current (Starting)            | 1/0.6/0.5/0.45 A                 |
| Constant Wattage Deviation 8%  Ballast Factor (Nom) 1  Power Factor (Nom) 0.90  Open Circuit Voltage 300 V  Input Current (Nom) 2.6/1.5/1.3/1.1 A A  Input Power (Nom) 294 W  Rated Lamp Power 250 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 Determined by AWG used  | Input Current (Short Circuit)       | 1.2-1.8/0.7-1/0.6-0.9/0.5-0.75 A |
| Ballast Factor (Nom) 1 Power Factor (Nom) 0.90 Open Circuit Voltage 300 V Input Current (Nom) 2.6/1.5/1.3/1.1 A A Input Power (Nom) 294 W Rated Lamp Power 250 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 Determined by AWG used   | Secondary Short Circuit Current     | 2-3 A                            |
| Power Factor (Nom)  Open Circuit Voltage  300 V  Input Current (Nom)  2.6/1.5/1.3/1.1 A A  Input Power (Nom)  Rated Lamp Power  250 W  Wiring  Wire Striplength  0.5 mm  Wire Length by Color  12"  Wire Type  Stranded  Remote Wiring Configuration Allowed  Remote Wiring Distance Remote  Determined by AWG used  | Constant Wattage Deviation          | 8%                               |
| Open Circuit Voltage 300 V Input Current (Nom) 2.6/1.5/1.3/1.1 A A Input Power (Nom) 294 W Rated Lamp Power 250 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 Determined by AWG used  | Ballast Factor (Nom)                | 1                                |
| Input Current (Nom)  2.6/1.5/1.3/1.1 A A  Input Power (Nom)  294 W  Rated Lamp Power  250 W  Wiring  Wire Striplength  0.5 mm  Wire Length by Color  12"  Wire Type  Stranded  Remote Wiring Configuration Allowed  Remote Wiring Configuration Allowed  Determined by AWG used  | Power Factor (Nom)                  | 0.90                             |
| Input Power (Nom) 294 W Rated Lamp Power 250 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 Determined by AWG used   | Open Circuit Voltage                | 300 V                            |
| Rated Lamp Power 250 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 Determined by AWG used  | Input Current (Nom)                 | 2.6/1.5/1.3/1.1 A A              |
| Wire Striplength 0.5 mm Wire Length by Color 12" Wire Type Stranded Remote Wiring Configuration Allowed Yes Max Ballast-Lamp Distance Remote Determined by AWG used  | Input Power (Nom)                   | 294 W                            |
| Wire Striplength 0.5 mm Wire Length by Color 12" Wire Type Stranded Remote Wiring Configuration Allowed Yes Max Ballast-Lamp Distance Remote Determined by AWG used  | Rated Lamp Power                    | 250 W                            |
| Wire Striplength 0.5 mm Wire Length by Color 12" Wire Type Stranded Remote Wiring Configuration Allowed Yes Max Ballast-Lamp Distance Remote Determined by AWG used  |                                     |                                  |
| Wire Length by Color 12" Wire Type Stranded Remote Wiring Configuration Allowed Yes Max Ballast-Lamp Distance Remote Determined by AWG used  | Wiring                              |                                  |
| Wire Type     Stranded       Remote Wiring Configuration Allowed     Yes       Max Ballast-Lamp Distance Remote     Determined by AWG used   | Wire Striplength                    | 0.5 mm                           |
| Remote Wiring Configuration Allowed Yes  Max Ballast-Lamp Distance Remote Determined by AWG used   | Wire Length by Color                | 12"                              |
| Max Ballast-Lamp Distance Remote Determined by AWG used  | Wire Type                           | Stranded                         |
| •  | Remote Wiring Configuration Allowed | Yes                              |
| Wiring   | Max Ballast-Lamp Distance Remote    | Determined by AWG used           |
|  | Wiring                              |                                  |

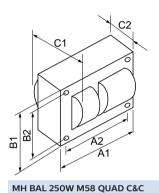
Datasheet, 2019, February 12 data subject to change

# Core & Coil (71A) MH 175W - 450W

| Recommended Fuse Value            | 8/5/5/3 A                          |  |  |  |  |
|-----------------------------------|------------------------------------|--|--|--|--|
|                                   |                                    |  |  |  |  |
| Approval and Application          |                                    |  |  |  |  |
| Open Circuit Voltage Test (Volts) | 270-330 V                          |  |  |  |  |
| Approval Marks                    | ULR CSA certificate RoHS Compliant |  |  |  |  |
| Temperature Marking               | C/C/D/D                            |  |  |  |  |
| UL Recognized                     | Yes                                |  |  |  |  |
| Hipot Test (1 Minute)             | 2000 V                             |  |  |  |  |
| Hipot Test (2 Seconds)            | 2500 V                             |  |  |  |  |
| UL Insulation Class               | H(180°C)                           |  |  |  |  |
| UL Temperature Code               | 1029D                              |  |  |  |  |
|                                   |                                    |  |  |  |  |

| Product Data                    |                                      |  |  |  |  |
|---------------------------------|--------------------------------------|--|--|--|--|
| Order product name              | CORE & COIL HID MH BAL 250W M58 QUAD |  |  |  |  |
|                                 | C&C                                  |  |  |  |  |
| EAN/UPC - Product               | 781087099599                         |  |  |  |  |
| Order code                      | 183681                               |  |  |  |  |
| Local order code                | 183681                               |  |  |  |  |
| Numerator - Quantity Per Pack   | 1                                    |  |  |  |  |
| Numerator - Packs per outer box | 4                                    |  |  |  |  |
| Material Nr. (12NC)             | 913700509311                         |  |  |  |  |
| Net Weight (Piece)              | 4.296 kg                             |  |  |  |  |

### Dimensional drawing



| Product                     | C1     | C2   | A1     | A2     | B1     | B2     |
|-----------------------------|--------|------|--------|--------|--------|--------|
| CORE & COIL HID 71A5791500D | 4.2 in | 3 in | 3.9 in | 3.5 in | 2.8 in | 2.4 in |

