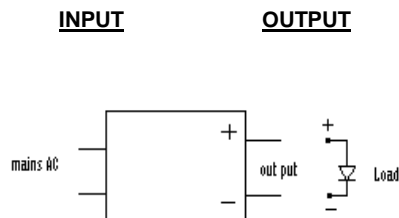


|                 |                                      |
|-----------------|--------------------------------------|
| Ordering 12NC   | 9290 009 59414                       |
| Brand Name      | LED Driver                           |
| Description     | CertaDrive LED Driver 12W 300mA 240V |
| Model Number    | C012C030V040FNM1BI                   |
| Input Voltage   | 220 - 240V                           |
| Input Frequency | 50 Hz                                |
| RoHS            | Yes                                  |
| Approbations    | IS 15885 ( Part 2 / Sec 13 )         |
| Status          | BIS Certified                        |

| Output Power (W) | Output Voltage (V) | Output Current (A) | Efficiency at Max Load | Max Case Temp (°C) | Input Current (Arms) | Max Input Power (W) | Isolation ( Input - Output ) | THD @ Max Load (%) | Power Factor @Max Load | Surge Protection (KV) | Weight (Kg) | Envir. Protection Rating |
|------------------|--------------------|--------------------|------------------------|--------------------|----------------------|---------------------|------------------------------|--------------------|------------------------|-----------------------|-------------|--------------------------|
| 12               | 28 - 40            | 0.300              | 240V                   | 75                 | 240V                 | 15                  | Isolated Driver              | ≤ 60 @Max Load     | ≥ 0.85                 | 2.0                   | 0.045       | IP 20                    |
|                  |                    |                    | 85                     |                    | 0.075                |                     |                              |                    |                        |                       |             |                          |

## Wire Diagram



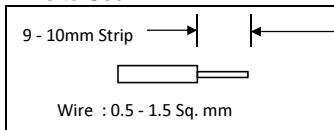
### Input Connector

|               |        |
|---------------|--------|
| Mains ( L-N ) | Orange |
|---------------|--------|

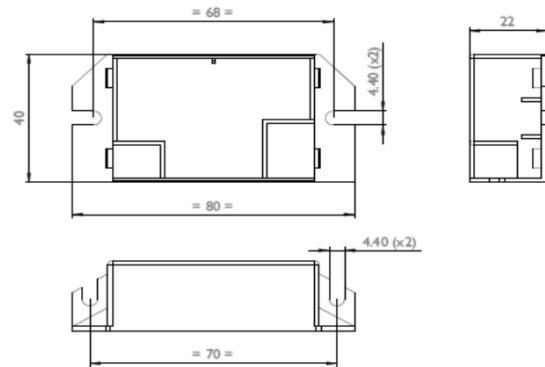
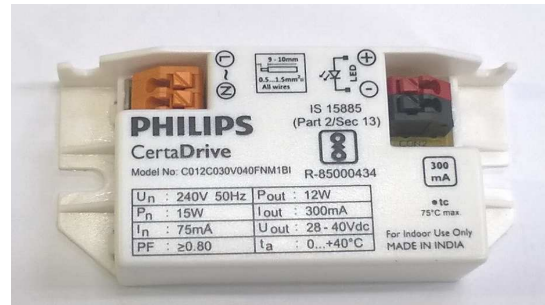
### Output Connector

|         |       |
|---------|-------|
| LED +ve | Red   |
| LED -ve | Black |

### Wire to Use




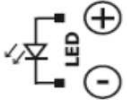
## Enclosure

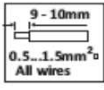


|                               | (mm) |
|-------------------------------|------|
| Case Length                   | 80   |
| Case Width                    | 40   |
| Case Height                   | 22   |
| Mounting Length               | 68   |
| Mounting Length ( Side Face ) | 70   |


|                 |                                      |
|-----------------|--------------------------------------|
| Ordering 12NC   | 9290 009 59414                       |
| Brand Name      | LED Driver                           |
| Description     | CertaDrive LED Driver 12W 300mA 240V |
| Model Number    | C012C030V040FNM1BI                   |
| Input Voltage   | 220 - 240V                           |
| Input Frequency | 50 Hz                                |
| RoHS            | Yes                                  |
| Approbations    | IS 15885 ( Part 2 / Sec 13 )         |
| Status          | BIS Certified                        |







IS 15885  
(Part 2/Sec 13)



**PHILIPS**  
**CertaDrive**

Model No: C012C030V040FNM1BI R-85000434

**300  
mA**

•tc  
75°C max.

For Indoor Use Only  
MADE IN INDIA

|                   |                        |
|-------------------|------------------------|
| $U_n$ : 240V 50Hz | $P_{out}$ : 12W        |
| $P_n$ : 15W       | $I_{out}$ : 300mA      |
| $I_n$ : 75mA      | $U_{out}$ : 28 - 40Vdc |
| PF : $\geq 0.80$  | $t_a$ : 0...+40°C      |

| Product Data                         |   |
|--------------------------------------|---|
| Full product code                    | 9290 009 59414  |
| Full product name                    | LED Driver 12W 300mA 240V   |
| Net weight per piece                 | 40 gms  |
| Dimming                              | None ( FIXED )  |
| Ambient Temp. Range                  | 0°C to + 40°C   |
| Line Voltage ( AC Nominal)           | 220 - 240V +/-10%   |
| Line Voltage ( AC Performance Range) | 170 - 280V  |
| Line Regulation                      | +/- 10%   |
| Line Current                         | 0.075A @ 240V   |
| Line Frequency                       | 50 Hz   |
| Envir. Protection Rating             | IP 20 ( For Indoor use only )   |
| Life at Tc 65 drgree C               | 30000 hrs ( nom. )  |
| Tc - Max.                            | 75°C  |
| Input Over Voltage                   | Can Survive input Voltage Stress of 320V for 48 hours<br>Can Survive input Voltage Stress of 350V for 2 hours |
| LED Current Tolerance                | +/- 10%of I <sub>max</sub>  |
| Output Ripple                        | ≤ 10% ( Pk / Avg. )   |
| THD Total                            | ≤ 60% @ Full Load @ 240V Supply   |
| P.F. at Max. Load                    | ≥ 0.85  |
| Isolation ( Input - Output )         | Isolated ( Basic Insulation 1.5KV between input and output )  |
| Protection                           | Short Circuit and Open Circuit Protection for LED + and LED -   |
| Standby Power                        | ≤0.5W   |

|                 |                                      |
|-----------------|--------------------------------------|
| Ordering 12NC   | <a href="#">9290 009 59414</a>       |
| Brand Name      | LED Driver                           |
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| Model Number    | C012C030V040FNM1BI                   |
| Input Voltage   | 220 - 240V                           |
| Input Frequency | 50 Hz                                |
| RoHS            | Yes                                  |
| Approbations    | IS 15885 ( Part 2 / Sec 13 )         |
| Status          | BIS Certified                        |

## Installation & Application Notes :

### Section I - Physical Characteristics

- 1.1 LED Driver shall be installed inside an electrical enclosure
- 1.2 Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher

### Section II - Performance

- 2.1 LED Driver has a rated lifetime of 30,000 hours @  $T_c \leq 65^\circ\text{C}$
- 2.2 LED Driver tolerates sustained open circuit and short circuit output conditions without damage
- 2.3 LED Driver maximum allowable case temperature is  $75^\circ\text{C}$  - see product label for measurement location
- 2.4 LED Driver complies with the requirements of IS 15885 ( Part 2 / Sec 13 )

### ELECTRICAL RATINGS :

| Model                     | Input, 50/60 Hz |       | Output ( nominal ) |       |       |
|---------------------------|-----------------|-------|--------------------|-------|-------|
|                           | V               | A     | V DC               | A DC  | Watts |
| LED Driver 12W 300mA 240V | 220 - 240       | 0.075 | 28 - 40            | 0.300 | 12    |

### TECHNICAL CONSIDERATIONS ( NOT FOR FIELD REPRESENTATIVES USE ) :

#### Section III - Conditions of acceptability

When installed in the end-use equipment, the following are among the considerations to be made :

- 3.1 The equipment shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the ultimate application.
- 3.2 The driver is suitable for indoor application only.
- 3.3 When the drivers are installed in the end-use application, the case temperature should not exceed the temperature limits specified in the following table:

| Model                     | Input Voltage, Hz | Max Case @ TC , °C |
|---------------------------|-------------------|--------------------|
| LED Driver 12W 300mA 240V | 220 - 240 , 50    | 75                 |