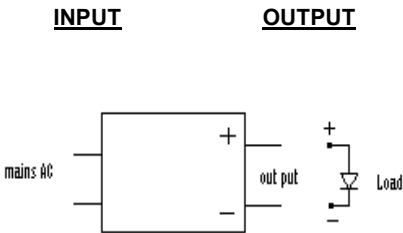




Ordering 12NC	9290 009 59414
Brand Name	LED Driver
Description	CertaDrive LED Driver 12W 300mA 240V
Model Number	C012C030V040FNM1BI
Input Voltage	220 - 240V
Input Frequency	50 Hz
RoHS	Yes
Approbations	IS 15885 (Part 2 / Sec 13)
Status	BIS Certified

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



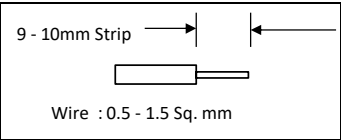
Input Connector

Mains (L-N)	Orange
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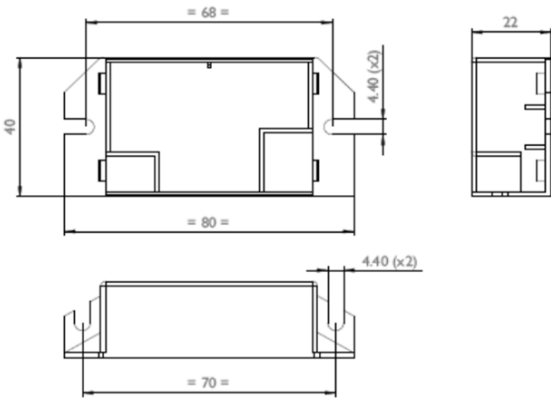
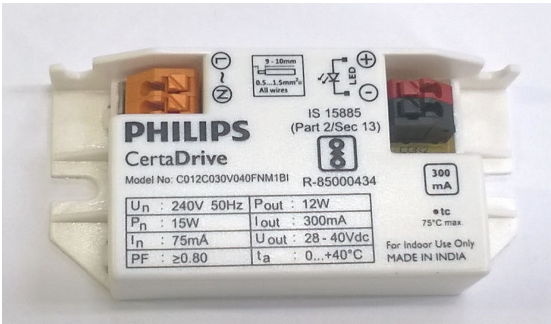
Output Connector

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

PHILIPS


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PHILIPS
CertaDrive

Model No: C012C030V040FNM1BI

IS 15885
(Part 2/Sec 13)



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 : ≥ 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 dgree C	30000 hrs (nom.)
Tc - Max.	75°C
Input Over Voltage	Can Survive input Voltage Stress of 320V for 48 hours Can Survive input Voltage Stress of 350V for 2 hours
LED Current Tolerance	+/- 10% of Imax
Output Ripple	$\leq 10\%$ (Pk / Avg.)
THD Total	$\leq 60\%$ @ 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	$\leq 0.5W$



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

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°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



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