

## 40W Constant Current -FMS Series



### Features

- Class I , SELV, Built-in
- Input Voltage :220–240VAC
- Protections: SCP/OLP/OVP
- Power Factor: >0.95@full load
- Efficiency: 90%
- Adjustable Output Current with dip-switch
- 5 years warranty

### Applications

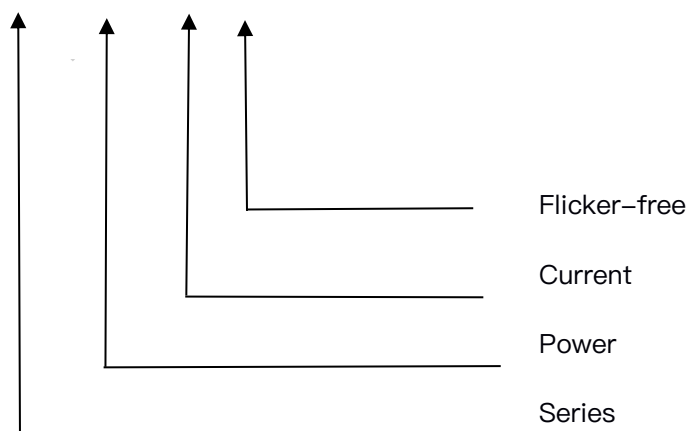
- Linear light

### ◆ Description

FMS-40-400 LD is a 40W isolated design constant current LED driver that operates from 198–264Vac input with 250 to 400mA output current. The output current is adjustable by dip-switch. With it's long dimensions from 220 x 30 x 21mm. It is easy to integrate in linear light products. To ensure trouble-free operation, protection is provided against output short circuit, over Load and over temperature.

### ◆ Model code

#### **FMS-40-400 LD**



## ◆ Specification

Output	Constant Current	250mA	300mA	350mA	400mA
	Voltage Range	40–160V	40–140V	40–120V	40–105V
	Unload voltage Max.	<b>220VDC</b>			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(≤)	±5%			
	SVM	≤1			
	Pst	≤0.4			
	Efficiency(Typ.)	90%			
Input	Rated input voltage(VAC)	220–240VAC			
	Range of input voltage(VAC)	198–264VAC			
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition			
	Range input voltage(VDC)	176–280VDC			
	Frequency(Hz)	0/50/60 Hz			
	Displacement factor	>0.95			
	Power Factor	>0.95@full load			
	Input Current max	0.3A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	<10%			
Protection	Over Load Protection	103–120% YES/Auto Resume			
	Over Voltage Protection	<b>&gt; 220VDC</b> YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
capability	Surge capability (L–N)	1KV			
	Surge capability (L/N–Ground)	2KV			
Environment	Operating Temperature	–20°C~+50°C			
	Humidity	10%–90%RH			
	Tc	85°C			
	Storage Temperature	–25°C~+85°C			
	Life time	> 50000h@Tc=max,230VAC			
	Ripple&Noise	≤25dB(A)@20cm			
Surface	Dimension	220X30X21(LXWXH)mm			
	material	metal case			

Standards	Safety	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN62384;AS/NZS 61347- 1, AS/NZS 61347-2- 13
	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN 62493;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547
	ErP	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	<p>1.All parameters not specially mentioned are measured at 240VAC input , full load and 25°C of ambient temperature.</p> <p>2.Ripple &amp; Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF &amp; 47 uF parallel capacitor.</p> <p>3.Temperature test: tested at high temperature(50°C)/low temperature(-20°C)/normal temperature(25°C)</p> <p>4.Data are typical values obtained from test samples</p> <p>5.Switch and dimmer are not recommended to connect between this product output and luminaries.</p>	

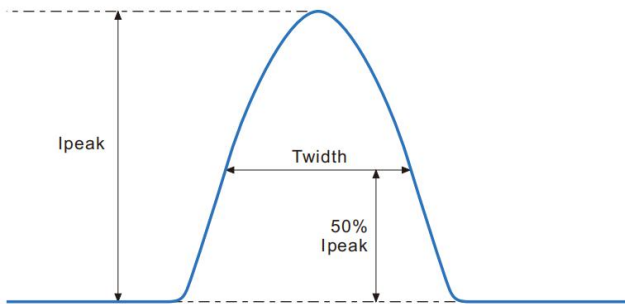
## ◆ Parameter

Number	Current (mA)	Voltage (VDC)	Output			
			Voltage No load (VDC)	Power (W)	1	2
1	250mA	40-160VDC	220VDC	40	--	--
2	300mA	40-140VDC		42	ON	--
3	350mA	40-120VDC		42	--	ON
4	400mA	40-105VDC		42	ON	ON

\* Factory default

## ◆ Inrush Current

I <sup>peak</sup>	T <sup>width</sup>	B10	B16	B20	C10	C16	C20
A	μs	pcs	pcs	pcs	pcs	pcs	pcs

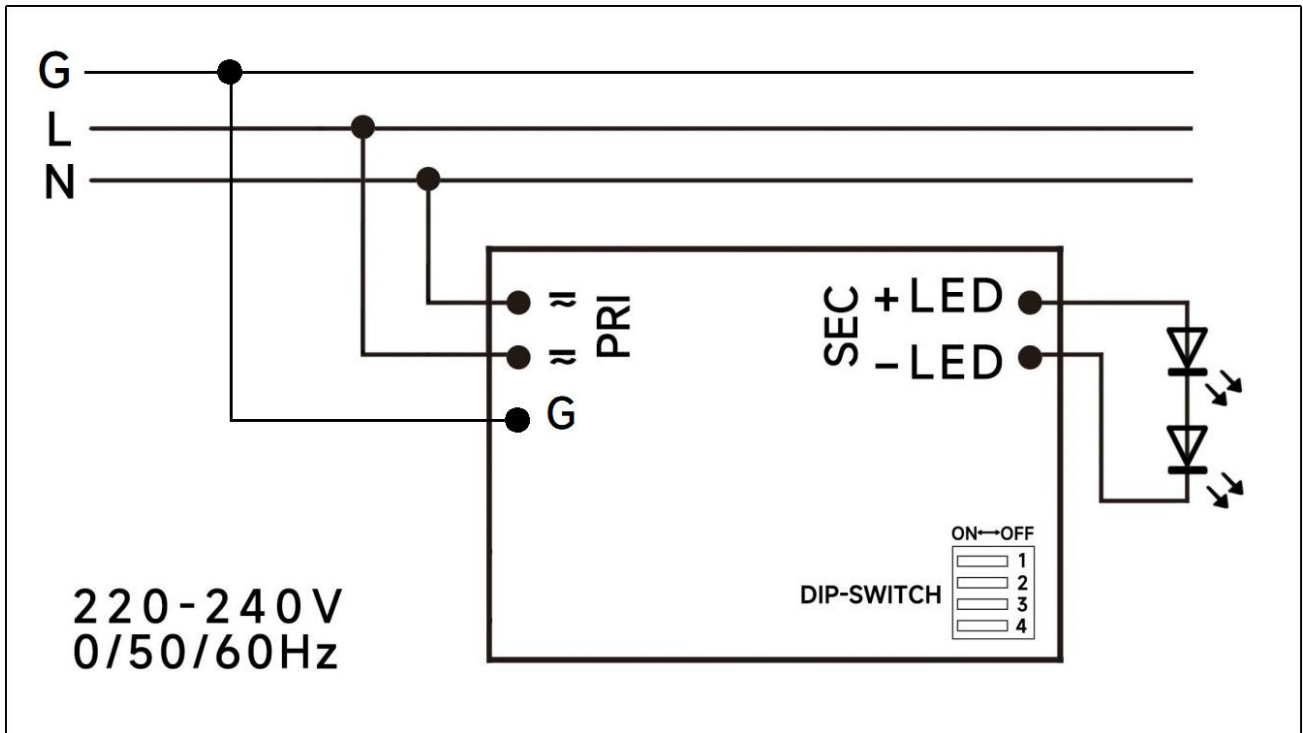
**Remarks:**

**1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.**

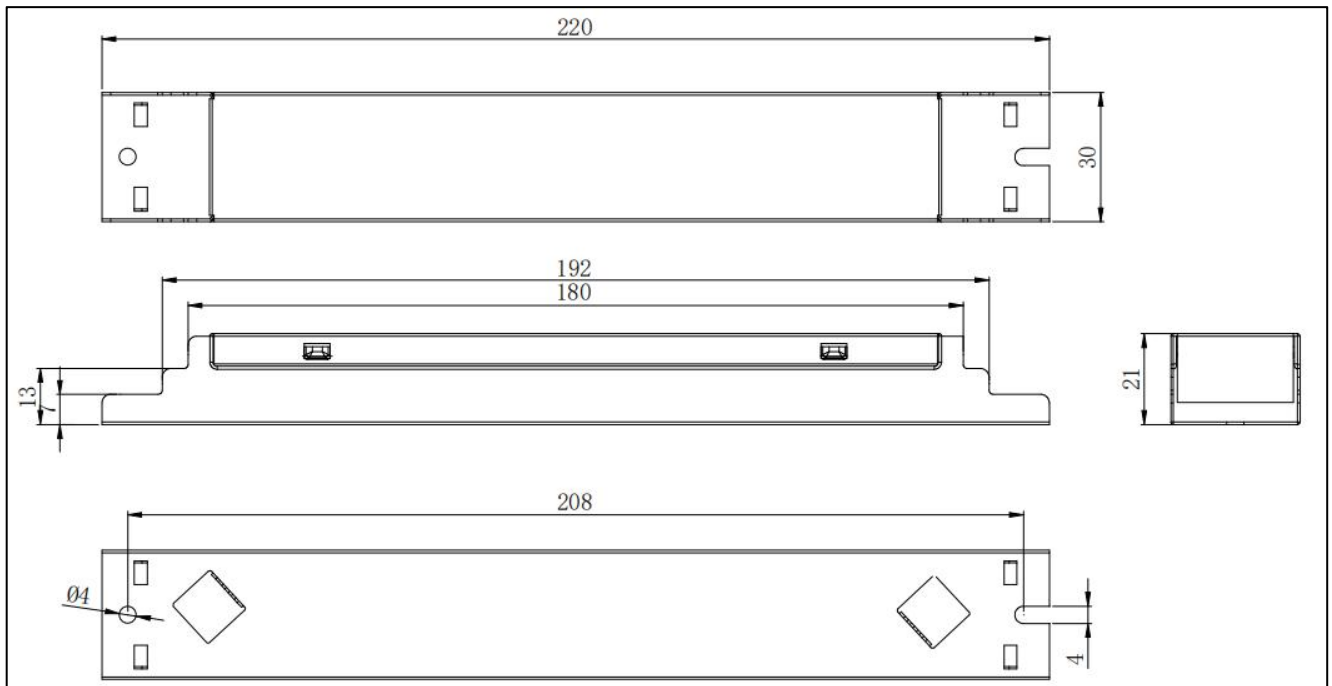
**2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.**

Preliminary

◆ **Wiring diagram**



Preliminary

**◆ 2D diagram**

**◆ Wiring & Connections**

Specification item		Value (Unit )
Input	Input wire cross-section	0.5...1.5 mm <sup>2</sup>
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm <sup>2</sup>
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

## ◆ Operating window

## ◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/09/05

Remark: The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

Preliminary!