



# DIN RAIL Series

## 40/60/100 Watt Single Output



### Features

- \* Universal Input Range 90~264VAC
- \* Efficiency up to 90%
- \* Meets EN55022 and CISPR/FCC Class B
- \* Continuous Short Circuit Protection
- \* LED Indicator for Power ON
- \* Can be Installed on DIN rail TS-35/7.5 or 15



### CFM40CXXX-DR Series

| MODEL        | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION | %EFF. (Typ.) |
|--------------|----------------|----------------|----------------|------------------|-----------------|-----------------|--------------|
| CFM40C033-DR | 3.3 V          | 6 A            | 50mV           | ±1%              | ±0.5%           | ±1%             | 70%          |
| CFM40C050-DR | 5 V            | 6 A            | 1%             | ±1%              | ±0.5%           | ±1%             | 76%          |
| CFM40C090-DR | 9 V            | 4.45 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 84%          |
| CFM40C120-DR | 12 V           | 3.34 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 85%          |
| CFM40C150-DR | 15 V           | 2.67 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 85%          |
| CFM40C240-DR | 24 V           | 1.67 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 85%          |
| CFM40C300-DR | 30 V           | 1.33 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 86%          |
| CFM40C360-DR | 36 V           | 1.11 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 87%          |
| CFM40C480-DR | 48 V           | 0.834 A        | 1%             | ±1%              | ±0.5%           | ±1%             | 87%          |

### CFM60CXXX-DR Series

| MODEL        | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION | %EFF. (Typ.) |
|--------------|----------------|----------------|----------------|------------------|-----------------|-----------------|--------------|
| CFM60C033-DR | 3.3 V          | 8 A            | 50mV           | ±1%              | ±0.5%           | ±1%             | 72%          |
| CFM60C050-DR | 5 V            | 8 A            | 1%             | ±1%              | ±0.5%           | ±1%             | 77%          |
| CFM60C090-DR | 9 V            | 6.67 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 84%          |
| CFM60C120-DR | 12 V           | 5 A            | 1%             | ±1%              | ±0.5%           | ±1%             | 85%          |
| CFM60C150-DR | 15 V           | 4 A            | 1%             | ±1%              | ±0.5%           | ±1%             | 86%          |
| CFM60C240-DR | 24 V           | 2.5 A          | 1%             | ±1%              | ±0.5%           | ±1%             | 86%          |
| CFM60C300-DR | 30 V           | 2 A            | 1%             | ±1%              | ±0.5%           | ±1%             | 86%          |
| CFM60C360-DR | 36 V           | 1.67 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 88%          |
| CFM60C480-DR | 48 V           | 1.25 A         | 1%             | ±1%              | ±0.5%           | ±1%             | 88%          |

### CFM101CXXX-DR Series

| MODEL         | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION | %EFF. (Typ.) | PF (Typ.) |
|---------------|----------------|----------------|----------------|------------------|-----------------|-----------------|--------------|-----------|
| CFM101C120-DR | 12 V           | 8.4 A          | 1%             | ±1%              | ±0.5%           | ±1%             | 87%          | 0.9       |
| CFM101C150-DR | 15 V           | 6.7 A          | 1%             | ±1%              | ±0.5%           | ±1%             | 87%          | 0.9       |
| CFM101C200-DR | 20 V           | 5 A            | 1%             | ±1%              | ±0.5%           | ±1%             | 88%          | 0.9       |
| CFM101C240-DR | 24 V           | 4.2 A          | 1%             | ±1%              | ±0.5%           | ±1%             | 88%          | 0.9       |
| CFM101C480-DR | 48 V           | 2.1 A          | 1%             | ±1%              | ±0.5%           | ±1%             | 90%          | 0.9       |

## Specifications

### INPUT SPECIFICATIONS:

|                       |   |
|-----------------------|---|
| Voltage .....         | 90~264Vac   |
| Frequency .....       | 47 to 63Hz  |
| Inrush Current .....  | CFM40C/60CXXX-DR 50A max. @240Vac<br>CFM101CXXX-DR 90A max. @240Vac |
| Conducted EMI .....   | CISPR/FCC Class B   |
| Leakage Current ..... | 3.5mA max.  |

### OUTPUT SPECIFICATIONS:

|                          |                                   |
|--------------------------|-----------------------------------|
| Hold-up Time             | CFM40C/60CXXX-DR 8ms typ. @115Vac |
|                          | CFM101CXXX-DR 10ms typ. @115Vac   |
| Short Circuit Protection | Hiccup Mode (Auto Recover)        |
| Over Voltage Protection  | TVS Component to Clamp            |
| Temperature Coefficient  | ±0.05%/°C                         |

### GENERAL SPECIFICATIONS:

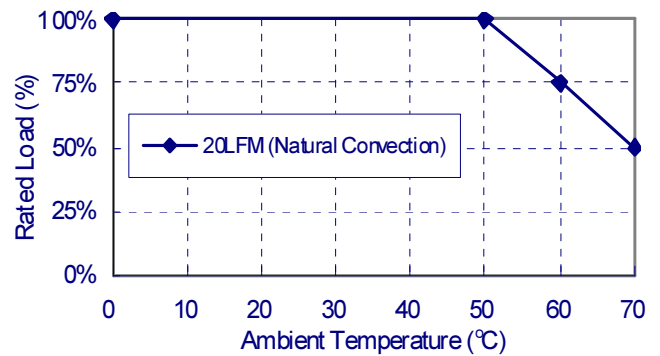
|                             |  |
|-----------------------------|--|
| Isolation .....             | Input to output = 4,242VDC                       |
| Operating Temperature ..... | CFM40C/60CXXX-DR 0 ~ 70℃ (see Derating Curve)    |
|                             | CFM101CXXX-DR ..... 0 ~ 70℃ (see Derating Curve) |
| Storage Temperature .....   | -20~85℃  |
| Humidity .....              | 93% RH max. Non-Condensing                       |
| Cooling .....               | Natural Convection                               |
| Switching Frequency .....   | CFM40C/60CXXX-DR 66KHz Typical                   |
|                             | CFM101CXXX-DR 100KHz Typical                     |
| MTBF .....                  | MIL-HDBK-217F, GB, 25℃/115VAC ..... T.B.D hrs    |
| Altitude .....              | 2000m  |
| Dimensions .....            | 5.433x2.323x1.894inches (138.00x59.00x48.10mm)   |
| Weight .....                | 475g   |

## SAFETY AND EMC:

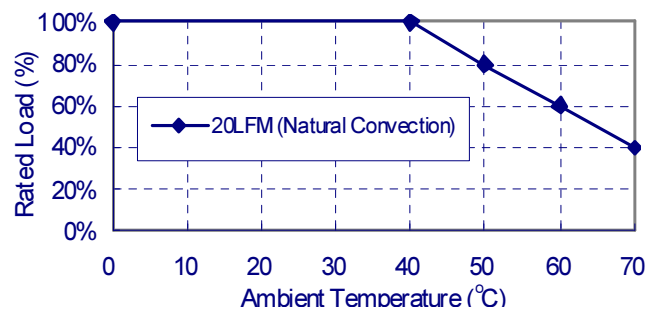
|                             |  |
|-----------------------------|--|
| Emission and Immunity ..... | EN55032 Class B, FCC Part 15 Class B<br>EN61000-6-3, EN61000-3-2, EN61000-3-3<br>EN55024, EN61204-3, EN61000-6-1 |
| Safety .....                | IEC60950-1, EN60950-1, UL60950-1   |

### CFM40C/60C/101C XXX-DR Series Derating Curve

# CFM40C/60C XXX-DR



**CFM101C XXX-DR**

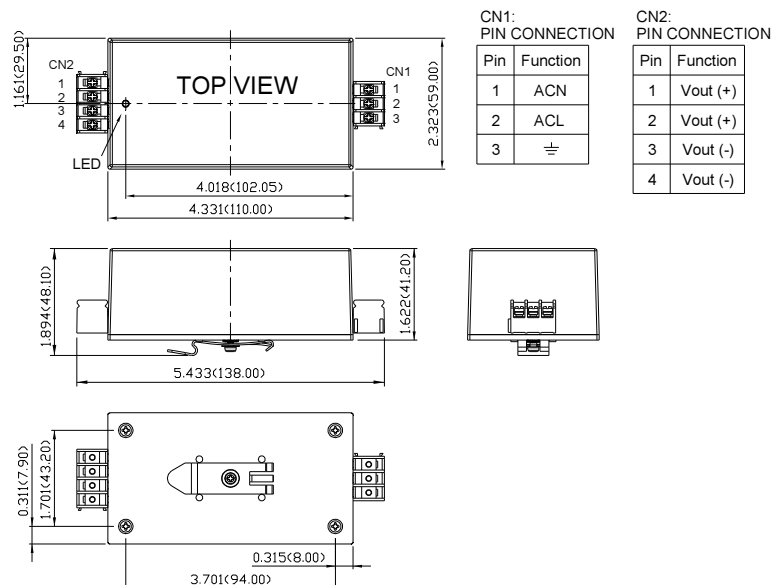


**NOTE:**

1. Voltage accuracy is set at full load and 25°C Ta.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from full to 10% load.
5. CFM40C/60C/101C Input connector mates with DECA T40MBB27-03 (Pitch 6.35mm) 3pin positions terminal blocks.
6. CFM40C/60C/101C Output connector mates with DECA T40MBB27-04 (Pitch 6.35mm) 4pin positions terminal blocks

## CFM40C/60C/101C XXX-DR Series

All Dimensions are in inches(mm)  
Tolerance:Inches:X.XXX±0.02  
Millimeters:X.XX±0.5



*Typical at 25°C, nominal line and 75% load, unless otherwise Specified*

# Mouser Electronics

Authorized Distributor

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Cincon:

[CFM40C240-DR](#) [CFM40C033-DR](#) [CFM40C480-DR](#) [CFM40C150-DR](#) [CFM40C120-DR](#) [CFM40C300-DR](#)  
[CFM40C090-DR](#) [CFM40C050-DR](#) [CFM40C360-DR](#)