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# CR SERIES HIGH PERFORMANCE POWER ENTRY MODULE EMI FILTERS

## INTRODUCTIONS

1. Power module incorporates an IEC connector, double-fuse (IEC 5x20mm) holder, optional voltage selector switch and double-pole power switch, plus an EMI filter all-in-one easy-to-install unit.
2. Adapts to 100-120V or 200-240V input voltage by simply reversing the fuse holder. (Use only with 250V fuse)
3. All part numbers are UL recognized, CSA certified and VDE approved.

## COMPONENTS

| PART NO. | L1 (mH) | L2 (mH) | C1, C2 (uF) | C3 (uF) | Cy (pF) |
|---|---|---|---|---|---|
| **03CR2/A** | 16.4 | 3.9 | 0.22 | 0.1 | 3300 |
| **03CR3/A** | | | | | |
| **03CR4/A** | | | | | |
| **06CR2/A** | 3.6 | 1.9 | | | |
| **06CR3/A** | | | | | |
| **06CR4/A** | | | | | |
| **• 10CR2/A** | 0.7 | 0.13 | | | |
| **• 10CR3/A** | | | | | |
| **• 10CR4/A** | | | | | |

R: 470KΩ
Lg :120uH (CRXA only)
• VDE approved to 6A/250VAC

## MINIMUM INSERTION LOSS IN dB

| COMMON MODE (L-G) IN 50 OHM SYSTEM | | | | | | |
|---|---|---|---|---|---|---|
| CURRENT RATING | FREQUENCY-MHz | | | | | |
| | .15 | .50 | 1.0 | 5.0 | 10 | 30 |
| 3A | 50 | 60 | 55 | 45 | 45 | 32 |
| 6A | 40 | 55 | 55 | 45 | 40 | 25 |
| 10A | 12 | 30 | 40 | 50 | 40 | 35 |
| DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM | | | | | | |
| 3A | 30 | 55 | 65 | 65 | 50 | 45 |
| 6A | 12 | 50 | 60 | 60 | 55 | 45 |
| 10A | 6 | 30 | 55 | 55 | 55 | 40 |

## MECHANICAL CONSTRUCTION

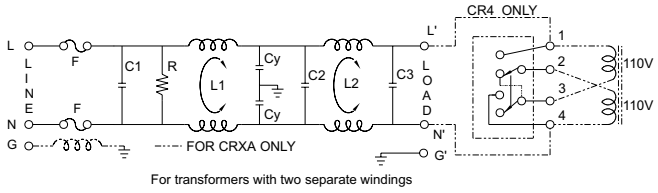
| DELTA PART NO. | **03CR2/A 06CR2/A 10CR2/A** | **03CR3/A 06CR3/A 10CR3/A** | **03CR4/A 06CR4/A 10CR4/A** |
|---|---|---|---|
| IEC CONNECTOR | △ | △ | △ |
| DOUBLE-FUSE HOLDER | △ | △ | △ |
| •DOUBLE-POLE POWER SWITCH | △ | △ | – |
| VOLTAGE SELECTOR SW | – | △ | △ |
| ELECTRICAL SCHEMATIC | FIG. B | FIG. B | FIG. A |

• UL, CSA & VDE approved current rating:
UL/CSA-10A both at 125VAC & 250VAC; VDE-10A at 250VAC.
Electrical lifetime: 10,000 cycles.
Maximum inrush current: 51A.

## SPECIFICATIONS

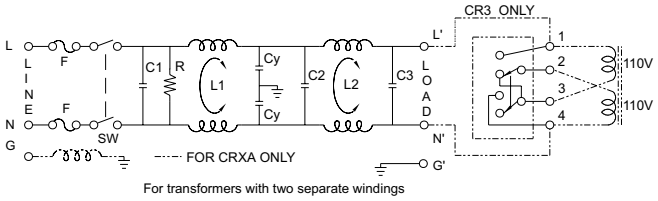
1. Maximum leakage current each
   line-to-ground @ 115VAC 60Hz: 0.25mA
   @ 250VAC 50Hz: 0.45mA
2. Hipot rating (one minute)
   line-to-ground: 2250VDC
   line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

## ELECTRICAL SCHEMATIC




For transformers with two separate windings

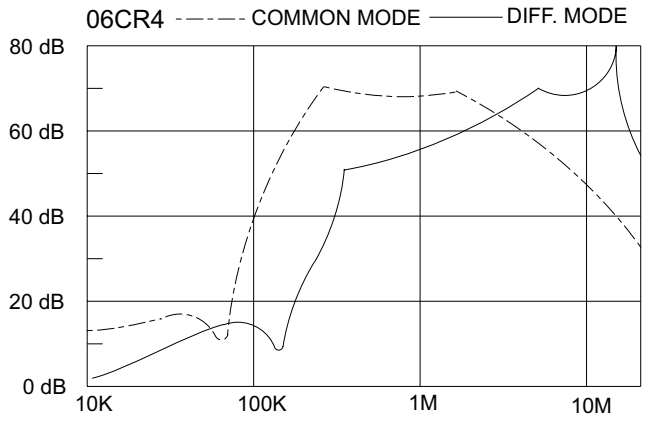
FIG. A




For transformers with two separate windings

FIG. B

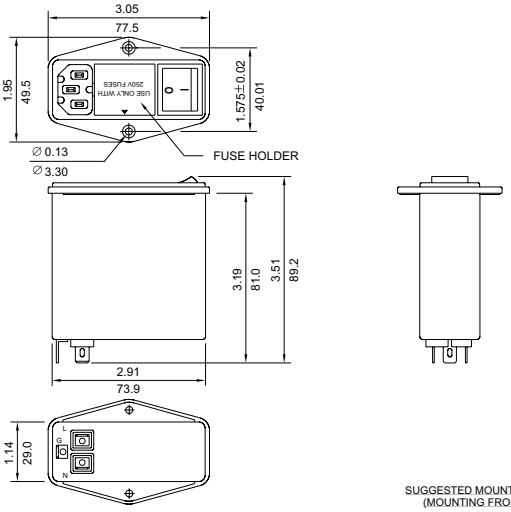
## INSERTION LOSS (TYPICAL)



## MECHANICAL CONSTRUCTION

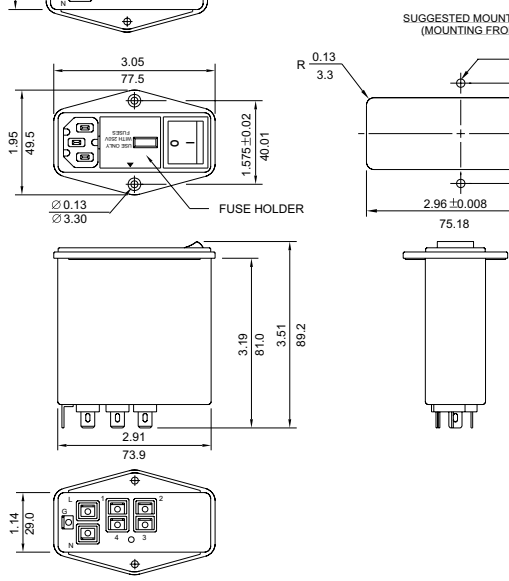


CR2/A



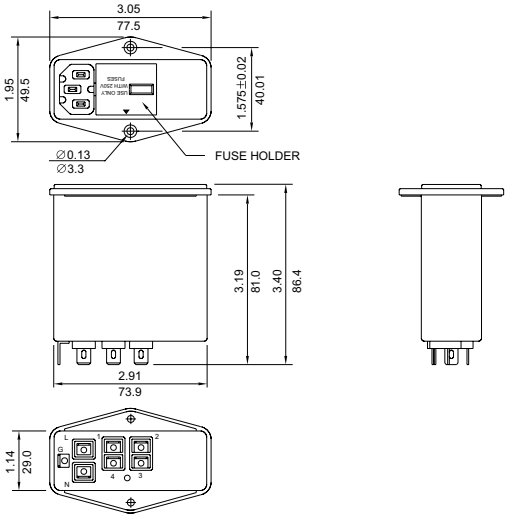



CR3/A






CR4/A




UNIT: $\frac{\text{INCH}}{\text{mm}}$

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