

# RP310

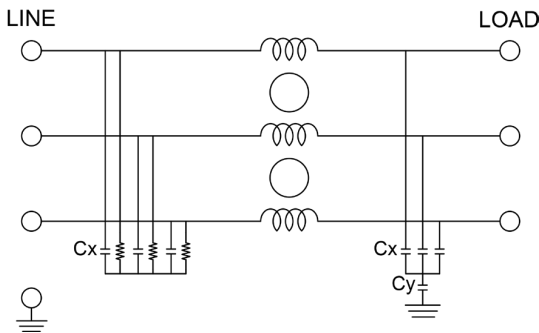
## ULTRA COMPACT 3-PHASE **DELTA** SINGLE STAGE POWER LINE FILTER

### FEATURES

- » Rated currents include **6A, 10A, and 20A**
- » Single Stage Line Filter
- » Available with **QD** tabs, **W** (wire) and **S** (studs) option
- » Ultra Compact Design
- » Agency Approved to UL1283 / 60929, CSA C22.2, EN 60939
- » Y-cap value can be adjusted to fit specification



### ELECTRICAL SCHEMATIC



### HOW TO ORDER

RP310-X-Y-Z

- Z = TERMINAL (-T)
- Y = Y-CAP, NF
- X = RATED CURRENT
- RP310 = FILTER SERIES

**NOTE:** USE ANY COMBINATION OF -X (AMPS) WITH ANY -Y RATINGS

E.G. **RP310-6-100-QD** (6AMPS WITH 100 NF YCAP)

For **X, Y** and **Z** options see product specification table.

### SPECIFICATIONS

OPERATING FREQUENCY	50/60Hz
USABLE FREQUENCY	DC - 400 Hz
MAX. OPERATING VOLTAGE*	480V +10%
AMBIENT TEMPERATURE	-25 TO 50°C
CLIMATIC CATEGORY	25/100/21
TERMINALS (-T)	QD: 0.25 TABS WIRE LEADS STUDS (M4)
TYP. WEIGHT, LBS (KG)	0.4 (0.2)

### TYPICAL LEAKAGE CURRENT

@ 480 VAC 60 Hz	0 - 1.0 mA Max.
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### HIPOT RATINGS

LINE TO GROUND	3500 VDC
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### TYPICAL APPLICATIONS

- ✓ High Power Rectifiers
- ✓ Uninterrupted Power Supplies
- ✓ Processing Equipment
- ✓ Alternative Energy (EV Charging & Solar)
- ✓ Factory Machinery

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## ULTRA COMPACT 3-PHASE **DELTA** SINGLE STAGE POWER LINE FILTER

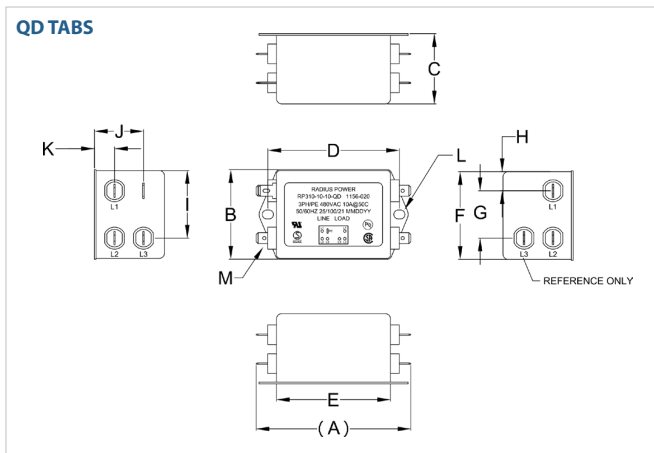
MODEL NO.	RATED CURRENT, A @ 40° C	Y-CAP, nF	LEAKAGE CURRENT mA, @ 480V AC/60 Hz	TERMINAL OPTIONS			MAX. DIMENSIONS" (MM)		
				(W) INPUT/ OUTPUT	(S) INPUT/ OUTPUT	(C) INPUT/ OUTPUT	WIDTH	(LENGTH)	HEIGHT
RP310-6-0-QD	6	0	-	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-6-0-S	6	0	-			✓	*	*	*
RP310-6-0-W	6	0	-		✓		*	*	*
RP310-6-10-QD	6	10	0.10	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-6-10-S	6	10	0.10			✓	*	*	*
RP310-6-10-W	6	10	0.10		✓		*	*	*
RP310-6-100-QD	6	100	1.00	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-6-100-S	6	100	1.00			✓	*	*	*
RP310-6-100-W	6	100	1.00		✓		*	*	*
RP310-10-0-QD	10	0	-	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-10-0-S	10	0	-			✓	*	*	*
RP310-10-0-W	10	0	-		✓		*	*	*
RP310-10-10-QD	10	10	0.10	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-10-10-S	10	10	0.10			✓	*	*	*
RP310-10-10-W	10	10	0.10		✓		*	*	*
RP310-10-33-W	10	33	0.30		✓		*	*	*
RP310-10-100-QD	10	100	1.00	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-10-100-S	10	100	1.00			✓	*	*	*
RP310-10-100-W	10	100	1.00		✓		*	*	*
RP310-20-0-QD	20	0	-	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-20-0-S	20	0	-			✓	*	*	*
RP310-20-0-W	20	0	-		✓		*	*	*
RP310-20-10-QD	20	10	0.10	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-20-10-S	20	10	0.10			✓	*	*	*
RP310-20-10-W	20	10	0.10		✓		*	*	*
RP310-20-22-QD	20	22	0.20	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-20-22-S	20	22	0.20			✓	*	*	*
RP310-20-22-W	20	22	0.20		✓		*	*	*
RP310-20-100-QD	20	100	1.00	✓			2.05"(52)	3.47"(88)	1.61"(41)
RP310-20-100-S	20	100	1.00			✓	*	*	*
RP310-20-100-W	20	100	1.00		✓		*	*	*

\*Contact factory for dimensions.

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## ULTRA COMPACT 3-PHASE **DELTA** SINGLE STAGE POWER LINE FILTER

### RP310 MECHANICAL OUTLINES (MM)



SERIES	(A)	B	C	D	E	F	G	H	I	J	K	L	M
QD TABS	3.47" (88)	2.05" (52)	1.61" (41)	2.95" (75)	2.60" (66)	2.01" (51)	1.06" (27)	0.45" (12)	1.52" (39)	1.10" (28)	0.45" (12)	Ø, 0.25"x5.1, 2x Ø, 6.4x5.1, 2x	0.25", 7X QD, MALE, 6.35, 7x

TYPICAL TOLERANCE: +/-0.02" (0.50MM)

### TYPICAL INSERTION LOSS, dB (50/50 Ohm)

Amps	Freq (MHz)	0.15	0.5	1.0	10	30
6	CM (dB)	54	76	82	82	72
	DM (dB)	28	40	47	67	66
10	CM (dB)	34	62	67	72	69
	DM (dB)	32	38	44	66	62
20	CM (dB)	22	40	62	72	76
	DM (dB)	28	36	44	62	65