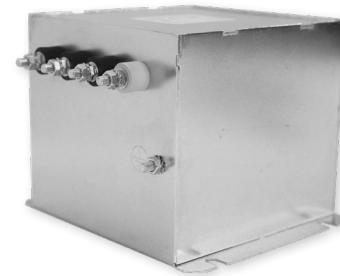


RP415

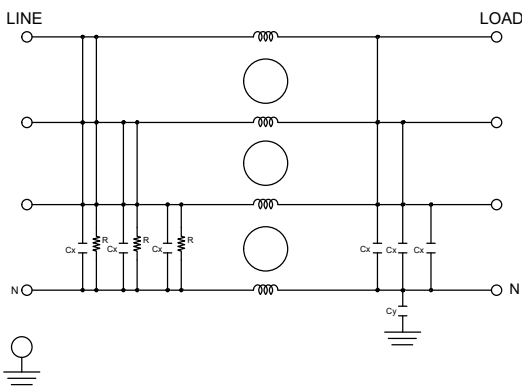
3-PHASE WYE COMPACT SINGLE STAGE POWER LINE FILTER

FEATURES

- » Rated currents include **8A, 16A, 25A, 36A, 64A, 80A, 120A, and 160A**
- » Single Stage Line Filter
- » Available with **W** (wires), **S** (studs) and **C** (connectors) option
- » Compact Design
- » Agency Approved to UL1283 / 60929, CSA C22.2, EN 60939
- » Y-cap value can be adjusted to fit specification

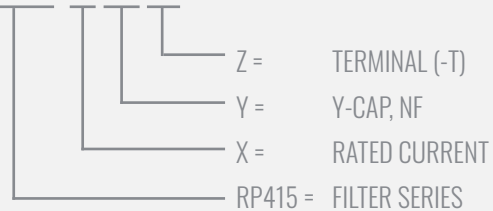


ELECTRICAL SCHEMATIC



HOW TO ORDER

RP415- X - Y - Z



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

E.G. **RP415-8-100-S** (8AMPS 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) | WIRE LEADS |
| | STUDS 8-36A(M5) |
| | 64-80A (M6) |
| | 120-160A(M10) |
| | CONNECTORS |
| TYP. WEIGHT, LBS (KG) | 3.9 - 16.0 (1.8 - 7.3) |

TYPICAL LEAKAGE CURRENT

| | |
|-----------------|------------------|
| @ 480 VAC 60 Hz | 0 - 20.0 mA Max. |
|-----------------|------------------|

HIPOT RATINGS

| | |
|----------------|----------|
| LINE TO GROUND | 3500 VDC |
|----------------|----------|

TYPICAL APPLICATIONS

- ✓ Power conversion systems
- ✓ Processing equipment
- ✓ Alternative energy equipment (EV charging & solar)
- ✓ Factory Machinery

RP415

3-PHASE WYE COMPACT 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 |
| RP415-8-0-S | 8 | 0 | - | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-8-0-W | 8 | 0 | - | ✓ | | | * | * | * |
| RP415-8-10-S | 8 | 10 | 0.10 | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-8-10-W | 8 | 10 | 0.10 | ✓ | | | * | * | * |
| RP415-8-100-S | 8 | 100 | 1.00 | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-8-100-W | 8 | 100 | 1.00 | ✓ | | | * | * | * |
| RP415-8-1000-S | 8 | 1000 | 10.00 | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-8-1000-W | 8 | 1000 | 10.00 | ✓ | | | * | * | * |
| RP415-8-2000-S | 8 | 2000 | 20.00 | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-8-2000-W | 8 | 2000 | 20.00 | ✓ | | | * | * | * |
| RP415-16-0-S | 16 | 0 | - | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-16-0-W | 16 | 0 | - | ✓ | | | * | * | * |
| RP415-16-10-S | 16 | 10 | 0.10 | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-16-10-W | 16 | 10 | 0.10 | ✓ | | | * | * | * |
| RP415-16-100-S | 16 | 100 | 1.00 | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-16-100-W | 16 | 100 | 1.00 | ✓ | | | * | * | * |
| RP415-16-1000-S | 16 | 1000 | 10.00 | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-16-1000-W | 16 | 1000 | 10.00 | ✓ | | | * | * | * |
| RP415-16-2000-S | 16 | 2000 | 20.00 | | ✓ | | 5.63"(143) | 6.69"(170) | 3.15"(80) |
| RP415-16-2000-W | 16 | 2000 | 20.00 | ✓ | | | * | * | * |
| RP415-25-0-C | 25 | 0 | - | | | ✓ | * | * | * |
| RP415-25-0-S | 25 | 0 | - | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-25-0-W | 25 | 0 | - | ✓ | | | * | * | * |
| RP415-25-10-C | 25 | 10 | 0.10 | | | ✓ | * | * | * |
| RP415-25-10-S | 25 | 10 | 0.10 | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-25-10-W | 25 | 10 | 0.10 | ✓ | | | * | * | * |
| RP415-25-100-C | 25 | 100 | 1.00 | | | ✓ | * | * | * |
| RP415-25-100-S | 25 | 100 | 1.00 | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-25-100-W | 25 | 100 | 1.00 | ✓ | | | * | * | * |
| RP415-25-1000-C | 25 | 1000 | 10.00 | | | ✓ | * | * | * |
| RP415-25-1000-S | 25 | 1000 | 10.00 | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-25-1000-W | 25 | 1000 | 10.00 | ✓ | | | * | * | * |
| RP415-25-2000-C | 25 | 2000 | 20.00 | | | ✓ | * | * | * |
| RP415-25-2000-S | 25 | 2000 | 20.00 | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |

ADDITIONAL MODEL NO. >>

RP415

3-PHASE WYE COMPACT 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 |
| RP415-25-2000-W | 25 | 2000 | 20.00 | ✓ | | | * | * | * |
| RP415-36-0-C | 36 | 0 | - | | | ✓ | * | * | * |
| RP415-36-0-S | 36 | 0 | - | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-36-0-W | 36 | 0 | - | ✓ | | | * | * | * |
| RP415-36-10-C | 36 | 10 | 0.10 | | | ✓ | * | * | * |
| RP415-36-10-S | 36 | 10 | 0.10 | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-36-10-W | 36 | 10 | 0.10 | ✓ | | | * | * | * |
| RP415-36-100-C | 36 | 100 | 1.00 | | | ✓ | * | * | * |
| RP415-36-100-S | 36 | 100 | 1.00 | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-36-100-W | 36 | 100 | 1.00 | ✓ | | | * | * | * |
| RP415-36-1000-C | 36 | 1000 | 10.00 | | | ✓ | * | * | * |
| RP415-36-1000-S | 36 | 1000 | 10.00 | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-36-1000-W | 36 | 1000 | 10.00 | ✓ | | | * | * | * |
| RP415-36-2000-C | 36 | 2000 | 20.00 | | | ✓ | * | * | * |
| RP415-36-2000-S | 36 | 2000 | 20.00 | | ✓ | | 6.02"(153) | 7.09"(180) | 4.53"(115) |
| RP415-36-2000-W | 36 | 2000 | 20.00 | ✓ | | | * | * | * |
| RP415-64-0-C | 64 | 0 | - | | | ✓ | * | * | * |
| RP415-64-0-S | 64 | 0 | - | | ✓ | | 6.02"(153) | 7.91"(201) | 4.92"(125) |
| RP415-64-0-W | 64 | 0 | - | ✓ | | | * | * | * |
| RP415-64-10-C | 64 | 10 | 0.10 | | | ✓ | * | * | * |
| RP415-64-10-S | 64 | 10 | 0.10 | | ✓ | | 6.02"(153) | 7.91"(201) | 4.92"(125) |
| RP415-64-10-W | 64 | 10 | 0.10 | ✓ | | | * | * | * |
| RP415-64-100-C | 64 | 100 | 1.00 | | | ✓ | * | * | * |
| RP415-64-100-S | 64 | 100 | 1.00 | | ✓ | | 6.02"(153) | 7.91"(201) | 4.92"(125) |
| RP415-64-100-W | 64 | 100 | 1.00 | ✓ | | | * | * | * |
| RP415-64-1000-C | 64 | 1000 | 10.00 | | | ✓ | * | * | * |
| RP415-64-1000-S | 64 | 1000 | 10.00 | | ✓ | | 6.02"(153) | 7.91"(201) | 4.92"(125) |
| RP415-64-1000-W | 64 | 1000 | 10.00 | ✓ | | | * | * | * |
| RP415-64-2000-C | 64 | 2000 | 20.00 | | | ✓ | * | * | * |
| RP415-64-2000-S | 64 | 2000 | 20.00 | | ✓ | | 6.02"(153) | 7.91"(201) | 4.92"(125) |
| RP415-64-2000-W | 64 | 2000 | 20.00 | ✓ | | | * | * | * |
| RP415-80-0-C | 80 | 0 | - | | | ✓ | * | * | * |
| RP415-80-0-S | 80 | 0 | - | | ✓ | | 6.69"(170) | 8.66"(220) | 4.33"(110) |
| RP415-80-0-W | 80 | 0 | - | ✓ | | | * | * | * |

ADDITIONAL MODEL NO. >>

RP415

3-PHASE WYE COMPACT 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 |
| RP415-80-10-C | 80 | 10 | 0.10 | | | ✓ | * | * | * |
| RP415-80-10-S | 80 | 10 | 0.10 | | ✓ | | 6.69"(170) | 8.66"(220) | 4.33"(110) |
| RP415-80-10-W | 80 | 10 | 0.10 | ✓ | | | * | * | * |
| RP415-80-100-C | 80 | 100 | 1.00 | | | ✓ | * | * | * |
| RP415-80-100-S | 80 | 100 | 1.00 | | ✓ | | 6.69"(170) | 8.66"(220) | 4.33"(110) |
| RP415-80-100-W | 80 | 100 | 1.00 | ✓ | | | * | * | * |
| RP415-80-1000-C | 80 | 1000 | 10.00 | | | ✓ | * | * | * |
| RP415-80-1000-S | 80 | 1000 | 10.00 | | ✓ | | 6.69"(170) | 8.66"(220) | 4.33"(110) |
| RP415-80-1000-W | 80 | 1000 | 10.00 | ✓ | | | * | * | * |
| RP415-80-2000-C | 80 | 2000 | 20.00 | | | ✓ | * | * | * |
| RP415-80-2000-S | 80 | 2000 | 20.00 | | ✓ | | 6.69"(170) | 8.66"(220) | 4.33"(110) |
| RP415-80-2000-W | 80 | 2000 | 20.00 | ✓ | | | * | * | * |
| RP415-120-0-C | 120 | 0 | - | | | ✓ | * | * | * |
| RP415-120-0-S | 120 | 0 | - | | ✓ | | 6.69"(170) | 9.80"(249) | 5.12"(130) |
| RP415-120-0-W | 120 | 0 | - | ✓ | | | * | * | * |
| RP415-120-10-C | 120 | 10 | 0.10 | | | ✓ | * | * | * |
| RP415-120-10-S | 120 | 10 | 0.10 | | ✓ | | 6.69"(170) | 9.80"(249) | 5.12"(130) |
| RP415-120-10-W | 120 | 10 | 0.10 | ✓ | | | * | * | * |
| RP415-120-100-C | 120 | 100 | 1.00 | | | ✓ | * | * | * |
| RP415-120-100-S | 120 | 100 | 1.00 | | ✓ | | 6.69"(170) | 9.80"(249) | 5.12"(130) |
| RP415-120-100-W | 120 | 100 | 1.00 | ✓ | | | * | * | * |
| RP415-120-1000-C | 120 | 1000 | 10.00 | | | ✓ | * | * | * |
| RP415-120-1000-S | 120 | 1000 | 10.00 | | ✓ | | 6.69"(170) | 9.80"(249) | 5.12"(130) |
| RP415-120-1000-W | 120 | 1000 | 10.00 | ✓ | | | * | * | * |
| RP415-120-2000-C | 120 | 2000 | 20.00 | | | ✓ | * | * | * |
| RP415-120-2000-S | 120 | 2000 | 20.00 | | ✓ | | 6.69"(170) | 9.80"(249) | 5.12"(130) |
| RP415-120-2000-W | 120 | 2000 | 20.00 | ✓ | | | * | * | * |
| RP415-160-0-C | 160 | 0 | - | | | ✓ | * | * | * |
| RP415-160-0-S | 160 | 0 | - | | ✓ | | 6.69"(170) | 10.87"(276) | 5.12"(130) |
| RP415-160-0-W | 160 | 0 | - | ✓ | | | * | * | * |
| RP415-160-10-C | 160 | 10 | 0.10 | | | ✓ | * | * | * |
| RP415-160-10-S | 160 | 10 | 0.10 | | ✓ | | 6.69"(170) | 10.87"(276) | 5.12"(130) |
| RP415-160-10-W | 160 | 10 | 0.10 | ✓ | | | * | * | * |
| RP415-160-100-C | 160 | 100 | 1.00 | | | ✓ | * | * | * |

ADDITIONAL MODEL NO. >>

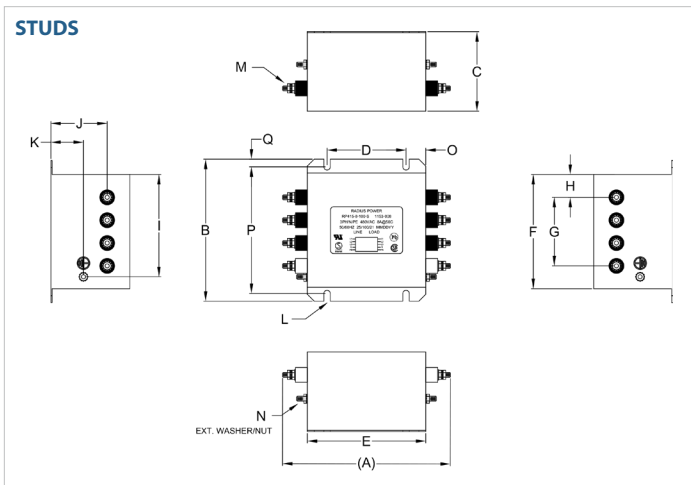
RP415

3-PHASE WYE COMPACT 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 |
| RP415-160-100-S | 160 | 100 | 1.00 | | ✓ | | 6.69"(170) | 10.87"(276) | 5.12"(130) |
| RP415-160-100-W | 160 | 100 | 1.00 | ✓ | | | * | * | * |
| RP415-160-1000-C | 160 | 1000 | 10.00 | | | ✓ | * | * | * |
| RP415-160-1000-S | 160 | 1000 | 10.00 | | ✓ | | 6.69"(170) | 10.87"(276) | 5.12"(130) |
| RP415-160-1000-W | 160 | 1000 | 10.00 | ✓ | | | * | * | * |
| RP415-160-2000-C | 160 | 2000 | 20.00 | | | ✓ | * | * | * |
| RP415-160-2000-S | 160 | 2000 | 20.00 | | ✓ | | 6.69"(170) | 10.87"(276) | 5.12"(130) |
| RP415-160-2000-W | 160 | 2000 | 20.00 | ✓ | | | * | * | * |

*Contact factory for dimensions.

RP415 MECHANICAL OUTLINES (MM)



| SERIES | (A) | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|-----------------------|--------------|-------------|-------------|-------------|-------------|-------------|------------|------------|-------------|-------------|------------|------------------------------------|---------------|--------------------|------------|-------------|-----------|
| STUDS (8/16A) | 6.69" (170) | 5.63" (143) | 3.15" (80) | 3.15" (80) | 4.72" (120) | 4.53" (115) | 2.72" (69) | 0.91" (23) | 4.06" (103) | 2.24" (57) | 1.30" (33) | Ø 0.43x0.25", 4x (Ø 11.0x6.51, 4x) | STUD, M5, 8x | STUD, GND, M5, 2x | 0.79" (20) | 5.02" (128) | 0.31" (8) |
| STUDS (25/36A) | 7.09" (180) | 6.02" (153) | 4.53" (115) | 3.54" (90) | 5.12" (130) | 4.92" (125) | 2.72" (69) | 1.10" (28) | 4.41" (112) | 3.62" (92) | 1.97" (50) | Ø 0.43x0.25", 4x (Ø 11.0x6.51, 4x) | STUD, M5, 8x | STUD, GND, M5, 2x | 0.79" (20) | 5.41" (138) | 0.31" (8) |
| STUDS (64A) | 7.91" (201) | 6.02" (153) | 4.92" (125) | 3.94" (100) | 5.51" (140) | 4.92" (125) | 3.11" (79) | 0.91" (23) | 4.41" (112) | 4.02" (102) | 1.97" (50) | Ø 0.43x0.25", 4x (Ø 11.0x6.51, 4x) | STUD, M6, 8x | STUD, GND, M6, 2x | 0.79" (20) | 5.41" (138) | 0.31" (8) |
| STUDS (80A) | 8.66" (220) | 6.69" (170) | 4.33" (110) | 4.33" (110) | 6.30" (160) | 5.51" (140) | 3.72" (95) | 0.90" (23) | 4.83" (123) | 3.43" (87) | 1.18" (30) | Ø 0.45x0.25", 4x (Ø 11.5x6.5, 4x) | STUD, M6, 8x | STUD, GND, M6, 2x | 0.98" (25) | 6.04" (154) | 0.32" (8) |
| STUDS (120A) | 9.80" (249) | 6.69" (170) | 5.12" (130) | 5.12" (130) | 7.09" (180) | 5.51" (140) | 3.72" (95) | 0.90" (23) | 4.82" (123) | 4.17" (106) | 1.18" (30) | Ø 0.45x0.25", 4x (Ø 11.5x6.5, 4x) | STUD, M10, 8x | STUD, GND, M10, 2x | 0.98" (25) | 6.04" (154) | 0.33" (8) |
| STUDS (160A) | 10.87" (276) | 6.69" (170) | 5.12" (130) | 5.91" (150) | 7.87" (200) | 5.51" (140) | 3.72" (95) | 0.90" (23) | 4.82" (123) | 4.17" (106) | 1.18" (30) | Ø 0.45x0.25", 4x (Ø 11.5x6.5, 4x) | STUD, M10, 8x | STUD, GND, M10 | 0.98" (25) | 6.04" (154) | 0.32" (8) |

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

RP415

3-PHASE **WYE** COMPACT SINGLE STAGE POWER LINE FILTER

TYPICAL INSERTION LOSS, dB (50/50 Ohm)

| Amps | Freq (MHz) | 0.15 | 0.5 | 1.0 | 10 | 30 |
|------------|------------|------|-----|-----|----|----|
| 8 | CM (dB) | 65 | 58 | 55 | 45 | 32 |
| | DM (dB) | 52 | 80 | 78 | 65 | 60 |
| 16 | CM (dB) | 50 | 46 | 45 | 45 | 40 |
| | DM (dB) | 50 | 75 | 75 | 70 | 70 |
| 25 | CM (dB) | 55 | 65 | 60 | 50 | 45 |
| | DM (dB) | 60 | 80 | 75 | 60 | 60 |
| 36 | CM (dB) | 50 | 60 | 55 | 40 | 40 |
| | DM (dB) | 60 | 76 | 75 | 65 | 55 |
| 64 | CM (dB) | 50 | 65 | 60 | 50 | 40 |
| | DM (dB) | 60 | 80 | 75 | 60 | 60 |
| 80 | CM (dB) | 45 | 65 | 60 | 46 | 40 |
| | DM (dB) | 60 | 80 | 80 | 65 | 60 |
| 120 | CM (dB) | 65 | 70 | 70 | 60 | 50 |
| | DM (dB) | 60 | 75 | 75 | 60 | 55 |
| 160 | CM (dB) | 55 | 65 | 60 | 48 | 40 |
| | DM (dB) | 50 | 75 | 70 | 45 | 45 |