



## OPTIM 8 P&P-210-240-60Hz

OPTIM 8 P&P-210-240-60Hz, Automatic capacitor bank 60 Hz

Code: R3L4F6.

- > Frequency (Hz): 60 Hz
- > kvar (240 V): 210
- > Aut.Switch (A): 3 x 800
- > Composition: 7x30
- > Mounting: Floor-mounted
- > P%: 7

### Description

The **OPTIM P&P** series automatic capacitor bank units have been designed for the automatic compensation of reactive energy in networks with fluctuating load levels and power variations during seconds, by switching operations carried out by contactors.

### Application

Their simple installation, high-technology and robustness make the **OPTIM P&P** series the ideal unit for compensating reactive energy in installations with fluctuating load levels.



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Automatic capacitor banks

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## Specifications

### AC power supply

|           |       |
|-----------|-------|
| Frequency | 60 Hz |
|-----------|-------|

### Electrical characteristics

|                      |                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| Losses (W)           | < 0,5 W/kvar                                                                                                     |
| Discharge resistance | 75 V / 3 min                                                                                                     |
| Surge                | 10 % 8 h over 24 h 15 % up to 15 min over 24 hours 20 % up to 5 min over 24 hours 30 % up to 1 min over 24 hours |
| Manoeuvre voltage    | Contactors: 230 V                                                                                                |
| Tolerance C          | -5% / 10 %                                                                                                       |

### Mechanical characteristics

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Size (mm) width x height x depth | 1000 x 1750 x 440 (mm)                      |
| Envelope                         | Sheet metal RAL 7035 Grey / RAL 3005 Garnet |
| Fastening                        | Vertical / Self-supporting                  |
| Ventilation                      | Natural or forced according to options      |
| Weight (kg)                      | 160                                         |

### Environmental characteristics

|                                          |                                                                                          |
|------------------------------------------|------------------------------------------------------------------------------------------|
| Protection class                         | IP 21                                                                                    |
| Relative humidity (without condensation) | 80%                                                                                      |
| Working temperature                      | T° class D: Daily average: 45 °C, annual average: 35 °C, maximum: 55 °C, minimum: -50 °C |

### Current measurement circuit

|                      |         |
|----------------------|---------|
| Permanent overload   | 1,3 In  |
| Transformation ratio | In / 5A |

### Protection

|         |                                                 |
|---------|-------------------------------------------------|
| Element | Fuses with high cut-off power (APR), type NH-00 |
|---------|-------------------------------------------------|

### OPTIM P&P 60Hz

Automatic capacitor banks, Plug & Play, 60 Hz.

| CODE                                                                                                           | TYPE                       | kvar (240 V) | Aut.Switch (A) | Composition | kvar (480 V) |
|----------------------------------------------------------------------------------------------------------------|----------------------------|--------------|----------------|-------------|--------------|
| OPTIM 5 P&P, automatic capacitor banks with computer SMART III regulator. Steps protections by Circuit Breaker |                            |              |                |             |              |
| R3L2F0.                                                                                                        | OPTIM 5 P&P-25-240-60Hz    | 25           | 3 x 125        | 5+2x10      |              |
| R3L2F1.                                                                                                        | OPTIM 5 P&P-43,75-240-60Hz | 43,75        | 3 x 160        | 6,25+3x12,5 |              |
| R3L2F2.                                                                                                        | OPTIM 5 P&P-56,25-240-60Hz | 56,25        | 3 x 200        | 6,25+4x12,5 |              |



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| CODE                                                                                                                              | TYPE                       | kvar (240 V) | Aut.Switch (A) | Composition | kvar (480 V) |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|----------------|-------------|--------------|
| <b>OPTIM 9 P&amp;P, automatic capacitor banks with computer SMART III regulator. Steps protection by blade fuse type NH-00.</b>   |                            |              |                |             |              |
| R3L3F3.                                                                                                                           | OPTIM 9 P&P-72,5-240-60Hz  | 72,5         | 3 x 250        | 6x12,5      |              |
| R3L3F5.                                                                                                                           | OPTIM 9 P&P-87,5-240-60Hz  | 87,5         | 3 x 400        | 7x12,5      |              |
| R3L3F7.                                                                                                                           | OPTIM 9 P&P-100-240-60Hz   | 100          | 3 x 400        | 8x12,5      |              |
| R3L3F9.                                                                                                                           | OPTIM 9 P&P-112,5-240-60Hz | 112,5        | 3 x 400        | 9x12,5      |              |
| <b>OPTIM 8 P&amp;P, automatic capacitor banks with computer SMART III regulator. Steps protection by blade fuse type NH-00.</b>   |                            |              |                |             |              |
| R3L4F1.                                                                                                                           | OPTIM 8 P&P-135-240-60Hz   | 135          | 3 x 630        | 15+4x30     |              |
| R3L4F2.                                                                                                                           | OPTIM 8 P&P-165-240-60Hz   | 165          | 3 x 630        | 15+5x30     |              |
| R3L4F4.                                                                                                                           | OPTIM 8 P&P-195-240-60Hz   | 195          | 3 x 630        | 15+6x30     |              |
| R3L4F6.                                                                                                                           | OPTIM 8 P&P-210-240-60Hz   | 210          | 3 x 800        | 7x30        |              |
| R3L4F8.                                                                                                                           | OPTIM 8 P&P-240-240-60Hz   | 240          | 3 x 800        | 8x30        |              |
| <b>OPTIM 8L P&amp;P, automatic capacitor banks with computer SMART III regulator. Steps protection by blade fuse type NH-00.</b>  |                            |              |                |             |              |
| R3L5F4.                                                                                                                           | OPTIM 8L P&P-260-240-60Hz  | 260          | 3 x 1000       | 20+6x40     |              |
| R3L5F8.                                                                                                                           | OPTIM 8L P&P-300-240-60Hz  | 300          | 3 x 1000       | 20+7x40     |              |
| R3L5F1.                                                                                                                           | OPTIM 8L P&P-320-240-60Hz  | 320          | 3 x 1250       | 8x40        |              |
| <b>OPTIM 14L P&amp;P, automatic capacitor banks with computer SMART III regulator. Steps protection by blade fuse type NH-00.</b> |                            |              |                |             |              |
| R3L6F1.                                                                                                                           | OPTIM 14L P&P-360-240-60Hz | 360          | 3 x 1250       | 9x40        |              |
| R3L6F3.                                                                                                                           | OPTIM 14L P&P-400-240-60Hz | 400          | 3 x 1600       | 10x40       |              |
| R3L6F5.                                                                                                                           | OPTIM 14L P&P-440-240-60Hz | 440          | 3 x 1600       | 11x40       |              |
| R3L6F8.                                                                                                                           | OPTIM 14L P&P-480-240-60Hz | 480          | 3 x 1600       | 12x40       |              |
| <b>OPTIM 5 P&amp;P, automatic capacitor banks with computer SMART III regulator. General protection by Circuit Breaker</b>        |                            |              |                |             |              |
| R3L2D3.                                                                                                                           | OPTIM 5 P&P-50-480-60Hz    |              | 3 x 100        | 10+2x20     | 50           |
| R3L2D6.                                                                                                                           | OPTIM 5 P&P-75-480-60Hz    |              | 3 x 125        | 2x12,5+2x25 | 75           |
| R3L2D8.                                                                                                                           | OPTIM 5 P&P-100-480-60Hz   |              | 3 x 160        | 4x25        | 100          |
| R3L2D1.                                                                                                                           | OPTIM 5 P&P-125-480-60Hz   |              | 3 x 200        | 5x25        | 125          |
| <b>OPTIM 9 P&amp;P, automatic capacitor banks with computer SMART III regulator. Steps protection by blade fuse type NH-00.</b>   |                            |              |                |             |              |
| R3L3D0.                                                                                                                           | OPTIM 9 P&P-150-480-60Hz   |              | 3 x 250        | 6x25        | 150          |
| R3L3D1.                                                                                                                           | OPTIM 9 P&P-162,5-480-60Hz |              | 3 x 400        | 12,5+6x25   | 162,5        |
| R3L3D2.                                                                                                                           | OPTIM 9 P&P-175-480-60Hz   |              | 3 x 400        | 7x25        | 175          |
| R3L3D3.                                                                                                                           | OPTIM 9 P&P-187,5-480-60Hz |              | 3 x 400        | 12,5+7x25   | 187,5        |
| R3L3D5.                                                                                                                           | OPTIM 9 P&P-200-480-60Hz   |              | 3 x 400        | 8x25        | 200          |
| R3L3DA.                                                                                                                           | OPTIM 9 P&P-212,5-480-60Hz |              | 3 x 400        | 12,5+8x25   | 212,5        |
| R3L3D7.                                                                                                                           | OPTIM 9 P&P-225-480-60Hz   |              | 3 x 400        | 9x25        | 225          |
| <b>OPTIM 8 P&amp;P, automatic capacitor banks with computer SMART III regulator. Steps protection by blade fuse type NH-00.</b>   |                            |              |                |             |              |
| R3L4D1.                                                                                                                           | OPTIM 8 P&P-250-480-60Hz   |              | 3 x 400        | 5x50        | 250          |
| R3L4D2.                                                                                                                           | OPTIM 8 P&P-275-480-60Hz   |              | 3 x 630        | 25+5x50     | 275          |
| R3L4D0.                                                                                                                           | OPTIM 8 P&P-300-480-60Hz   |              | 3 x 630        | 6x50        | 300          |
| R3L4D7.                                                                                                                           | OPTIM 8 P&P-325-480-60Hz   |              | 3 x 630        | 25+6x50     | 325          |
| R3L4D8.                                                                                                                           | OPTIM 8 P&P-350-480-60Hz   |              | 3 x 630        | 7x50        | 350          |



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|------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|----------------|-------------|--------------|
| R3L4DA.                                                                                                                | OPTIM 8 P&P-375-480-60Hz   |              | 3 x 630        | 25+7x50     | 375          |
| R3L4D4.                                                                                                                | OPTIM 8 P&P-400-480-60Hz   |              | 3 x 800        | 8x50        | 400          |
| OPTIM 8L P&P, automatic capacitor banks with computer SMART III regulator. Steps protection by blade fuse type NH-00.  |                            |              |                |             |              |
| R3L5D0.                                                                                                                | OPTIM 8L P&P-440-480-60Hz  |              | 3 x 800        | 40+5x80     | 440          |
| R3L5D1.                                                                                                                | OPTIM 8L P&P-520-480-60Hz  |              | 3 x 1000       | 40+6x80     | 520          |
| R3L5D3.                                                                                                                | OPTIM 8L P&P-600-480-60Hz  |              | 3 x 1000       | 40+7x80     | 600          |
| R3L5D4.                                                                                                                | OPTIM 8L P&P-640-480-60Hz  |              | 3 x 1250       | 8x80        | 640          |
| OPTIM 14L P&P, automatic capacitor banks with computer SMART III regulator. Steps protection by blade fuse type NH-00. |                            |              |                |             |              |
| R3L6D0.                                                                                                                | OPTIM 14L P&P-720-480-60Hz |              | 3 x 1250       | 9x80        | 720          |
| R3L6D3.                                                                                                                | OPTIM 14L P&P-800-480-60Hz |              | 3 x 1600       | 10x80       | 800          |
| R3L6D5.                                                                                                                | OPTIM 14L P&P-880-480-60Hz |              | 3 x 1600       | 11x80       | 880          |
| R3L6D7.                                                                                                                | OPTIM 14L P&P-960-480-60Hz |              | 3 x 1600       | 12x80       | 960          |



## OPTIM 8 P&P-210-240-60Hz

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### Dimensions



### Connections

