



# SVGm-4WF-069M-400

SVGm-4WF-069M-400, Static Var Generator with multilevel technology

Code: R4P4MC.

- > EMI filter: 1
- > System: 4 wires, 230...400 V
- > kvar (230 V): 40
- > kvar (400 V): 69
- > Phase current: 100
- > Use voltage (V): 400

## Specifications

### AC power supply

|                 |                                  |
|-----------------|----------------------------------|
| Consumption     | 2070 W (Consumo máximo)          |
| Frequency       | 50 / 60 Hz $\pm$ 5 %             |
| Nominal voltage | 208 ... 400 V~ F-F ( $\pm$ 10 %) |

### Mechanical characteristics

|                                  |                      |
|----------------------------------|----------------------|
| Size (mm) width x height x depth | 439 x 745 x 288 (mm) |
| Noise                            | < 60 dBA             |
| Weight (kg)                      | 56                   |

### Environmental characteristics

|                                          |                |
|------------------------------------------|----------------|
| Protection class                         | IP20           |
| Relative humidity (without condensation) | 0 .... 95 %    |
| Storage temperature                      | -20 ... +50 °C |
| Working temperature                      | -10 ... +45 °C |

### Electrical characteristics

|                       |             |
|-----------------------|-------------|
| Maximum phase current | 100 A (RMS) |
| Earthing system       | TN, TT      |

### Current measurement circuit

|                      |                               |
|----------------------|-------------------------------|
| Consumption          | 1,5 VA por transformador      |
| Transformation ratio | Transformer: 5/5A ... 5000/5A |

### Communications

|          |            |
|----------|------------|
| Fieldbus | RS-485     |
| Protocol | Modbus/RTU |
| Speed    | 9600 Bd    |

### Standards

|                                       |                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------|
| Electrical safety, Maximum height (m) | 3000 (2000 m sin limitar prestaciones)                                                                   |
| Standards                             | IEC 61000-6-4, UNE-EN 55011, IEC 61000-6-2, IEC 62477-1, IEC 61439-1, IEC 60721-3-3 (Indoor conditioned) |



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Features / performance

|                                    |                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Reactive power compensation (Kvar) | Selectable: 0.7 inductive ... 1 ... 0.7 capacitive                                      |
| Filtering / Response time          | < 100 µs                                                                                |
| Parallel assembly/installation     | Up to 100 devices of different caliber. Connection of transformers only in Master unit. |

SVGm

| CODE                                 | TYPE              | System                 | kvar (230 V) | kvar (400 V) | kvar (440 V) | kvar (480 V) | kvar (500 V) | kvar (690 V) | Phase current |
|--------------------------------------|-------------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 3 wires 480 V, Wall-mounted cabinet  |                   |                        |              |              |              |              |              |              |               |
| R4P3M0.                              | SVGm-3WF-30M-480  | 3 wires, 230...480 V   | 17,4         | 30           | 30           | 30           | -            | -            | 44            |
| R4P3M6.                              | SVGm-3WF-075M-480 | 3 wires, 230...480 V   | 43,1         | 75           | 75           | 75           | -            | -            | 110           |
| R4P3M2.                              | SVGm-3WF-100M-480 | 3 wires, 230...480 V   | 57,5         | 100          | 100          | 100          | -            | -            | 145           |
| 4 wires 400 V, Wall-mounted cabinet  |                   |                        |              |              |              |              |              |              |               |
| R4P4MA.                              | SVGm-4WF-020M-400 | 4 wires, 230...400 V   | 12           | 20,7         | -            | -            | -            | -            | 30            |
| R4P4ML.                              | SVGm-4WF-050M-400 | 4 wires, 230...400 V   | 30           | 51,7         | -            | -            | -            | -            | 110           |
| R4P4MC.                              | SVGm-4WF-069M-400 | 4 wires, 230...400 V   | 40           | 69           | -            | -            | -            | -            | 100           |
| 3 wires 480 V, Floor-mounted cabinet |                   |                        |              |              |              |              |              |              |               |
| R4P3F2.                              | SVGm-3WF-100C-480 | 3 wires, 230...480 V   | 57,5         | 100          | 100          | 100          | -            | -            | 145           |
| R4P3F3.                              | SVGm-3WF-200C-480 | 3 wires, 230...480 V   | 115          | 200          | 200          | 200          | -            | -            | 290           |
| R4P3F4.                              | SVGm-3WF-300C-480 | 3 wires, 230...480 V   | 172,5        | 300          | 300          | 300          | -            | -            | 435           |
| R4P3F5.                              | SVGm-3WF-400C-480 | 3 wires, 230...480 V   | 230          | 400          | 400          | 400          | -            | -            | 580           |
| 3 wires 690 V, Floor-mounted cabinet |                   |                        |              |              |              |              |              |              |               |
| R4P5F2.                              | SVGm-3WF-100C-690 | 3 wires, 500 ... 690 V | -            | -            | -            | -            | 72           | 100          | 84            |
| R4P5F3.                              | SVGm-3WF-200C-690 | 3 wires, 500 ... 690 V | -            | -            | -            | -            | 144          | 200          | 168           |
| R4P5F4.                              | SVGm-3WF-300C-690 | 3 wires, 500 ... 690 V | -            | -            | -            | -            | 216          | 300          | 210           |
| R4P5F5.                              | SVGm-3WF-400C-690 | 3 wires, 500 ... 690 V | -            | -            | -            | -            | 288          | 400          | 280           |
| 4 wires 400 V, Floor-mounted cabinet |                   |                        |              |              |              |              |              |              |               |
| R4P4FC.                              | SVGm-4WF-069C-400 | 4 wires, 230...400 V   | 40           | 69           | -            | -            | -            | -            | 100           |
| R4P4FD.                              | SVGm-4WF-138C-400 | 4 wires, 230...400 V   | 80           | 138          | -            | -            | -            | -            | 200           |
| R4P4FE.                              | SVGm-4WF-207C-400 | 4 wires, 230...400 V   | 119,1        | 207          | -            | -            | -            | -            | 300           |
| R4P4FF.                              | SVGm-4WF-276C-400 | 4 wires, 230...400 V   | -            | 276          | -            | -            | -            | -            | 400           |
| 4 wires 550 V, Floor-mounted cabinet |                   |                        |              |              |              |              |              |              |               |
| R4P6FG.                              | SVGm-4WF-067C-550 | 4 wires, 440 ... 550 V | -            | -            | 53           | 58           | -            | -            | 70            |
| R4P6FH.                              | SVGm-4WF-134C-550 | 4 wires, 440 ... 550 V | -            | -            | 106          | 116          | -            | -            | 140           |
| R4P6FJ.                              | SVGm-4WF-201C-550 | 4 wires, 440 ... 550 V | -            | -            | 159          | 174          | -            | -            | 210           |
| R4P6FK.                              | SVGm-4WF-268C-550 | 4 wires, 440 ... 550 V | -            | -            | 212          | 232          | -            | -            | 280           |
| Rack module                          |                   |                        |              |              |              |              |              |              |               |
| R4P3R2.                              | SVGm-3WF-100R-480 | 3 wires, 230...480 V   | 57,5         | 100          | 100          | 100          | -            | -            | 145           |



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|---------|-------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| R4P4RC. | SVGm-4WF-069R-400 | 4 wires, 230...400 V | 40           | 69           | -            | -            | -            | -            | 100           |



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## Connections

