



# SVGm-3WF-300C-480

SVGm-3WF-300C-480, Static Var Generator with multilevel technology

Code: R4P3F4.

- > EMI filter: 1
- > System: 3 wires, 230...480 V
- > kvar (230 V): 172,5
- > kvar (400 V): 300
- > kvar (440 V): 300
- > kvar (480 V): 300
- > Phase current: 435
- > Use voltage (V): 480

## Specifications

|                                            |                                |
|--------------------------------------------|--------------------------------|
| AC power supply                            |                                |
| Installation category                      | 4 kV, CAT III Class 1          |
| Consumption                                | 6210 W (max.)                  |
| Frequency                                  | 50 / 60 Hz ± 5 %               |
| Nominal voltage                            | 208 ... 480 V~ F-F (± 10 %)    |
| Mechanical characteristics                 |                                |
| Size (mm) width x height x depth           | 608 x 1890 x 812 (mm)          |
| Noise                                      | < 66 dBA                       |
| Weight (kg)                                | 300                            |
| Environmental characteristics              |                                |
| Protection class                           | IP 21 / IK10 (IP 41 on demand) |
| Relative humidity (without condensation)   | 0 .... 95 %                    |
| Storage temperature                        | -20 ... +50 °C                 |
| Working temperature                        | -10 ... +45 °C                 |
| Electrical characteristics                 |                                |
| Conditional short-circuit current (Icc)    | 40 kA                          |
| Rated peak current Ipk                     | 84 kA pico                     |
| Maximum phase current                      | 435 A (RMS)                    |
| Rated diversity factor (RDF), simultaneity | 1                              |
| 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                        |



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## Standards

|                                              |                                                                                                          |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Electrical safety, Maximum height (m)        | 3000 (2000 m without performance degradation)                                                            |
| Electrical safety, Contamination level/class | Category 2                                                                                               |
| Standards                                    | IEC 61000-6-4, UNE-EN 55011, IEC 61000-6-2, IEC 62477-1, IEC 61439-1, IEC 60721-3-3 (Indoor conditioned) |

## 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 |                   |                        |              |              |              |              |              |              |               |



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



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## Dimensions



## Connections

