



## Alternador - Alternator **G2R 400 MA/4**

**800 kVA - 50 Hz**

**950kVA - 60 Hz**

### Características Técnicas según normas Technical Characteristics according to IEC 34-1 CEI 2-3 VDE 0530 UTE NF C 51-100-111 BS 4999

|  |             |  |                       |
|--|-------------|--|-----------------------|
| Aislación clase - Insulation class                 | H           | Rodamiento L.A. - D.E. Bearing               | 6324-2RS-C3           |
| Protección - Enclosure                             | IP23        | Rodamiento L.O.A - O.D.E Bearing             | 6320-2RS-C3           |
| Cosφ - Power factor                                | 0,8         | Caudal de aire - Air Flow (50Hz)             | 125m <sup>3</sup> /1' |
| Altura - Altitude                                  | ≤ 1000 m    | Caudal de aire - Air Flow (60Hz)             | 150m <sup>3</sup> /1' |
| Sobrevelocidad - Overspped                         | 2160 rpm    | Peso alternador - Alternator weight          | 2520 kg               |
| Sistema de excitación - Excitation system          | brushless   | Peso estator completo - Stator weight        | 1383 kg               |
| Sistema de regulación - Regulation system          | A.V.R.      | Peso rotor completo - Rotor weight           | 1025 kg               |
| Precisión tensión - Voltage accuracy               | ± 0,5%      | Resist. fase - Estator winding resist.20°C   | 0,0026 Ω              |
| Paso de arrollamiento - Winding pitch              | 2/3         | Resist. Rotor - Rotor resist. 20°C           | 1,47 ohm              |
| Distorsión armónica - Harmonic residual            | ≤ 5%        | Resist. Estator excit - Excit.stator resist. | 8,5 Ω                 |
| Número de terminales - Number of leads             | 12          | Resist. Rotor excit. - Excit. Rotor resist.  | 0,055 ohm             |
| Sobrecarga - Overload                              | 10% (1Hora) | Constante de tiempo - Time constant T'd      | 2,5 S                 |
| Radio interferencia - Radio interference           | G-VDE 0875  | Constante de tiempo - Time constant T'd      | 179 mS                |
| Corriente de cortocircuito - Short circuit current | >3,5In      | Constante de tiempo - Time constant T'd      | 18.1 mS               |
| Relación de cortocircuito - Short circuit ratio    | kcc 0,34    | Constante de tiempo - Time constant Ta       | 38,0 mS               |

| Conexiónados - Arrangements                     | 50 Hz |            |       |     |       | 60 Hz |             |       |      |  |
|---|-------|------------|-------|-----|-------|-------|-------------|-------|------|--|
| Tensión - Voltage: Estrella Serie - Series Star | 380   | 400        | 415   | 440 | 380   | 416   | 440         | 460   | 480  |  |
| Tensión - Voltage: Estrella Paral - Paral Star  | 190   | 200        | 208   | 220 | 190   | 208   | 220         | 230   | 240  |  |
| Tensión - Voltage: Triang. Serie - Delta Series | 220   | 230        | 240   | 254 | 220   | 240   | 254         | 266   | 277  |  |
| Tensión - Voltage: Triang. Paral - Paral Delta  | 110   | 115        | 120   | 127 | 110   | 115   | 120         | 127   | 138  |  |
| Pot. - Power: Continuous kVA S1 (cl.H - 40°C)   | 900   | <b>900</b> | 855   | (1) | 950   | 998   | <b>1100</b> | 1100  | 1100 |  |
| Pot. - Power: Stand By kVA S1 (cl.H - 27°C)     | 1000  | 1000       | 950   | (1) | 1050  | 1103  | 1280        | 1280  | 1280 |  |
| Reactancia - Reactances % (S1-cl.H-40°C) Xd     | 387,8 | 350        | 325,2 | -   | 451,2 | 425,3 | 397,4       | 381,1 | 350  |  |
| Reactancia - Reactances % (S1-cl.H-40°C) X'd    | 21,7  | 19,6       | 18,2  | -   | 25,2  | 23,8  | 22,3        | 21,4  | 19,6 |  |
| Reactancia - Reactances % (S1-cl.H-40°C) X''d   | 11,2  | 10,1       | 9,4   | -   | 12,9  | 12,3  | 11,5        | 11    | 10,1 |  |
| Reactancia - Reactances % (S1-cl.H-40°C) Xq     | 164   | 148        | 138   | -   | 187   | 180   | 168         | 161   | 148  |  |
| Reactancia - Reactances % (S1-cl.H-40°C) X2     | 16,4  | 14,8       | 13,7  | -   | 18,7  | 18    | 16,8        | 16,1  | 14,8 |  |
| Reactancia - Reactances % (S1-cl.H-40°C) X0     | 3,9   | 3,5        | 3,3   | -   | 4,4   | 4,3   | 4           | 3,8   | 3,5  |  |
| Tensión Monofásica - Voltage Monophase          |       |            |       |     |       |       |             |       |      |  |
| Potencia Monofásica - Power Monophase           |       |            |       |     |       |       |             |       |      |  |

| S1 - cl. F - 40°C - 380/440 V | 50 Hz |      |      | 60 Hz |      |      |
|-------------------------------|-------|------|------|-------|------|------|
|                               | 2/4   | 3/4  | 4/4  | 2/4   | 3/4  | 4/4  |
| Cosφ 0,8 n%                   | 95.3  | 95.7 | 95.5 | 95.3  | 95.7 | 95.4 |
| Cosφ 0,8   Excit. (A)         | 3.2   | 4.4  | 5.8  | 2.5   | 4.0  | 5.4  |
| Cosφ 1 n%                     | 95.5  | 96.3 | 96.1 | 95.6  | 96.4 | 96.3 |
| Cosφ 1   Excit. (A)           | 2.2   | 3.2  | 4.4  | 2.0   | 3.4  | 4.4  |