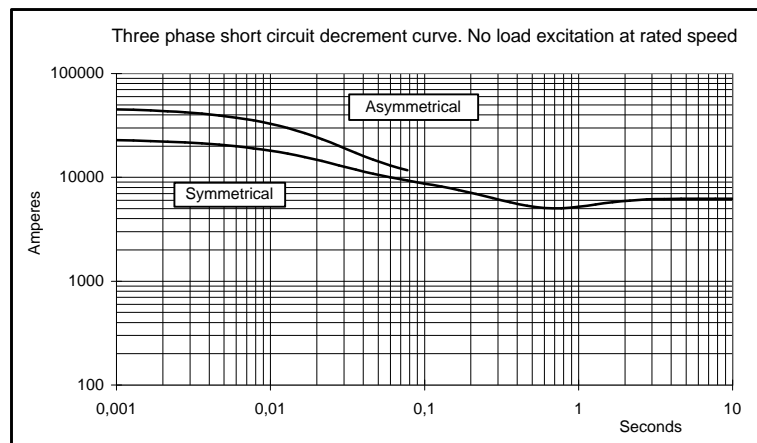
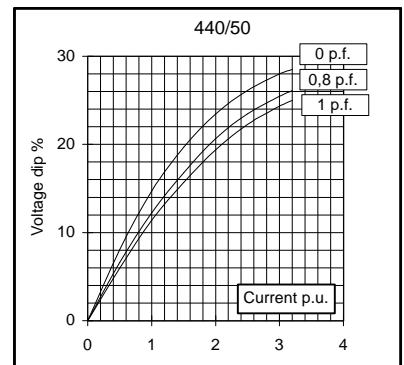
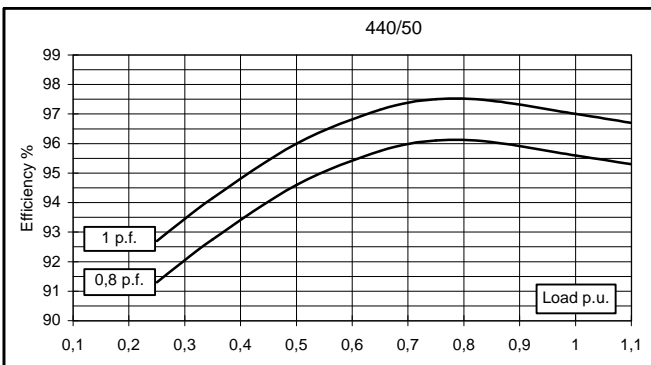
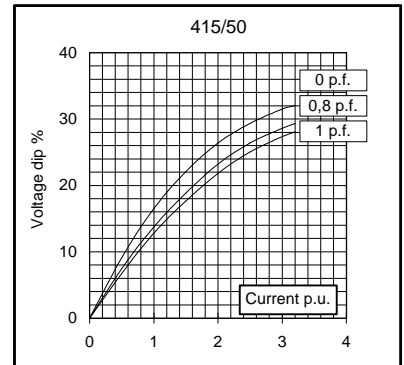
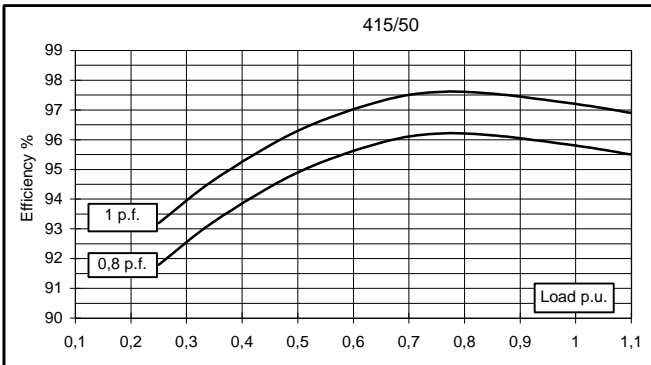
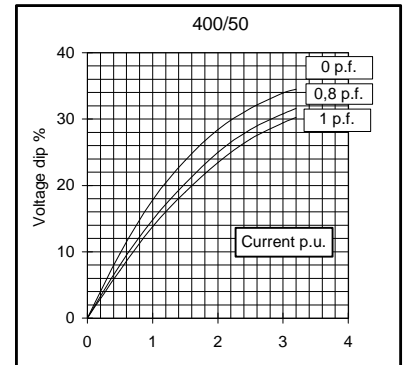
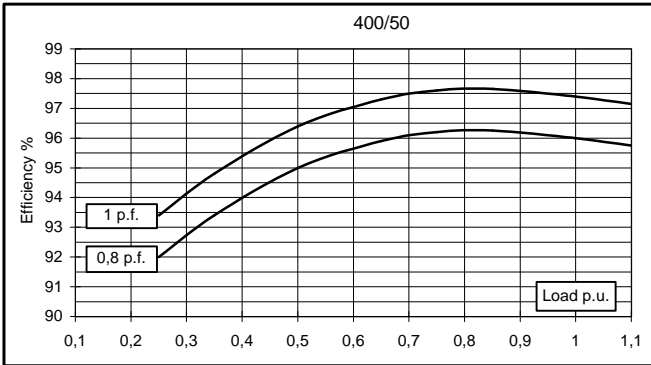
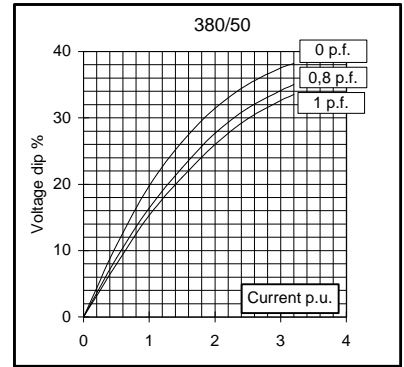
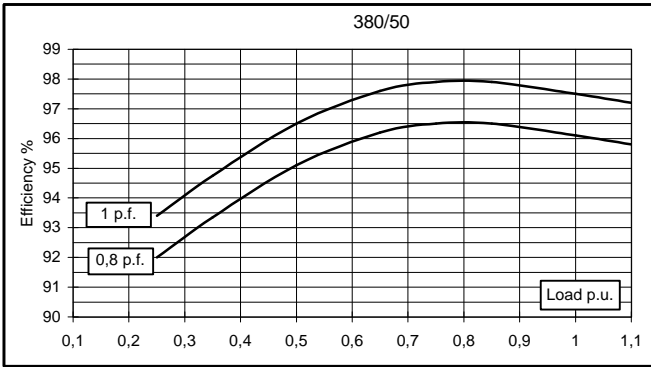


| <b>Electrical Characteristics</b>    |                     |   |   |       |       |       |                |       |       |       |
|--------------------------------------|---------------------|---|---|-------|-------|-------|----------------|-------|-------|-------|
| Frequency                            | Hz                  | 50  |   |       |       | 60    |                |       |       |       |
| Voltage (parallel star)              | V                   | 380   | 400   | 415   | 440   | 415   | 440            | 460   | 480   |       |
| Rated power class H                  | kVA                 | 1300  | 1300  | 1300  | 1235  | 1451  | 1482           | 1560  | 1560  |       |
|                                      | kW                  | 1040  | 1040  | 1040  | 988   | 1161  | 1186           | 1248  | 1248  |       |
| Rated power class F                  | kVA                 | 1200  | 1200  | 1200  | 1140  | 1339  | 1368           | 1440  | 1440  |       |
|                                      | kW                  | 960   | 960   | 960   | 912   | 1071  | 1094           | 1152  | 1152  |       |
| Regulation with UVR6                 |                     | ±1% with any power factor and speed variations between -5% +30% |   |       |       |       |                |       |       |       |
| Insulation class                     |                     | H   |   |       |       |       |                |       |       |       |
| Execution                            |                     | Brushless   |   |       |       |       |                |       |       |       |
| Stator winding                       |                     | 12 ends   |   |       |       |       |                |       |       |       |
| Rotor                                |                     | with damping cage   |   |       |       |       |                |       |       |       |
| Efficiencies class H                 | 4/4                 | %   | 96,1  | 96    | 95,8  | 95,6  | 95,8           | 96,3  | 96,5  | 96,4  |
| (see graph. for details)             | 3/4                 | %   | 96,5  | 96,2  | 96,2  | 96,1  | 96,1           | 96,3  | 96,7  | 96,5  |
|                                      | 2/4                 | %   | 95,1  | 95    | 94,9  | 94,6  | 94,8           | 94,9  | 95,1  | 95    |
|                                      | 1/4                 | %   | 92  | 92    | 91,8  | 91,3  | 92,5           | 92,5  | 92,5  | 92,5  |
| Reactances (f. l.cl. F)              | Xd                  | %   | 416,6   | 376   | 349,3 | 295,2 | 467,7          | 425,1 | 409,4 | 376   |
|                                      | Xd'                 | %   | 19,7  | 17,8  | 16,5  | 14    | 22,1           | 20,1  | 19,38 | 17,8  |
|                                      | Xd''                | %   | 9,3   | 8,4   | 7,8   | 6,6   | 10,4           | 9,5   | 9,15  | 8,4   |
|                                      | Xq                  | %   | 192,8   | 174   | 161,6 | 136,6 | 216,4          | 196,7 | 189,5 | 174   |
|                                      | Xq'                 | %   | 192,8   | 174   | 161,6 | 136,6 | 216,4          | 196,7 | 189,5 | 174   |
|                                      | Xq''                | %   | 21,2  | 19,1  | 17,7  | 15    | 23,8           | 21,6  | 20,8  | 19,1  |
|                                      | X <sub>2</sub>      | %   | 15,2  | 13,7  | 12,7  | 10,8  | 17,0           | 15,5  | 14,9  | 13,7  |
|                                      | X <sub>0</sub>      | %   | 4,3   | 3,9   | 3,6   | 3,1   | 4,9            | 4,4   | 4,25  | 3,9   |
| Short Circuit Ratio                  | Kcc                 |   | 0,33  | 0,38  | 0,43  | 0,53  | 0,24           | 0,28  | 0,33  | 0,38  |
| Time Constants                       | Td'                 | sec.  | 0,271   |       |       |       |                |       |       |       |
|                                      | Td''                | sec.  | 0,0184  |       |       |       |                |       |       |       |
|                                      | Tdo'                | sec.  | 8,90  |       |       |       |                |       |       |       |
|                                      | Tα                  | sec.  | 0,026   |       |       |       |                |       |       |       |
| Short Circuit Current Capacity       |                     | %   | >300  |       |       |       | >350           |       |       |       |
| Excitation at no load                | Amp.                |   | 0,6   | 0,7   | 0,8   | 1     | 0,4            | 0,5   | 0,6   | 0,7   |
| Excitation at full load              | Amp.                |   | 3,2   | 3,3   | 3,4   | 3,5   | 2,9            | 3     | 3,1   | 3,3   |
| Overload (long-term)                 |                     | %   | 1 hour in a 6 hours period 110% rated load                            |       |       |       |                |       |       |       |
| Overload per 20 sec.                 |                     | %   | 300   |       |       |       |                |       |       |       |
| Stator Winding Resistance (20°C)     | Ω                   |   | 0,0058  |       |       |       |                |       |       |       |
| Rotor Winding Resistance (20°C)      | Ω                   |   | 3,820   |       |       |       |                |       |       |       |
| Exciter Resistance (20 °C)           | Ω                   |   | Rotor : 0,130   |       |       |       | Stator : 10,63 |       |       |       |
| Heat dissipation at f.l.cl.H         | W                   |   | 42206   | 43333 | 45595 | 45473 | 50891          | 45553 | 45264 | 46606 |
| Telephone Interference               |                     |   | FHT < 2%  |       |       |       | TIF < 40       |       |       |       |
| Radio interference                   |                     |   | EN50081-1, EN50082-1, VDE0875K. For others standards apply to factory |       |       |       |                |       |       |       |
| Waveform Distors.(THD) at f. load    | LL/LN %             |   | 1,5 / 1,5   |       |       |       |                |       |       |       |
| Waveform Distors.(THD) at no load    | LL/LN %             |   | 2,4 / 2,4   |       |       |       |                |       |       |       |
| <b>Mechanical characteristics</b>    |                     |   |   |       |       |       |                |       |       |       |
| Protection                           |                     |   | IP 23 (other protection on request)                                   |       |       |       |                |       |       |       |
| DE bearing                           |                     |   | NU2224  |       |       |       |                |       |       |       |
| NDE bearing                          |                     |   | 6322  |       |       |       |                |       |       |       |
| Weight of wound stator assembly      | kg                  |   | 979   |       |       |       |                |       |       |       |
| Weight of wound rotor assembly       | kg                  |   | 759   |       |       |       |                |       |       |       |
| Weight of complete generator         | kg                  |   | 2660  |       |       |       |                |       |       |       |
| Maximun overspeed                    | rpm                 |   | 2250  |       |       |       |                |       |       |       |
| Unbalanced magnetic pull at f.l.cl.F | kN/mm               |   | 5,9   |       |       |       |                |       |       |       |
| Cooling air requirement              | m <sup>3</sup> /min |   | 90  |       |       |       | 108            |       |       |       |
| Inertia Constant (H)                 | sec.                |   | 0,243   |       |       |       | 0,292          |       |       |       |
| Noise level at 1m/7m                 | dB(A)               |   | 95 / 84   |       |       |       | 99 / 89        |       |       |       |

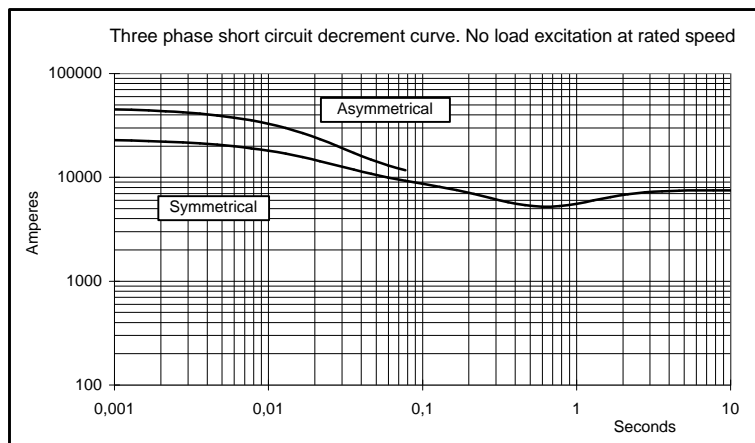
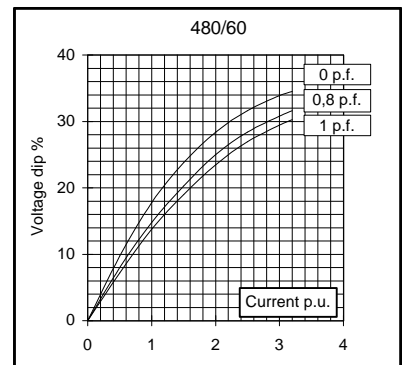
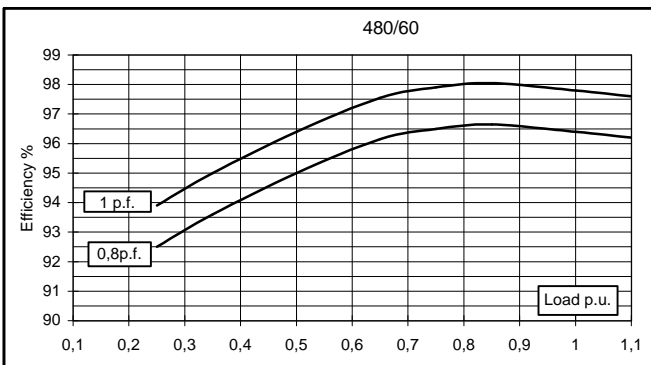
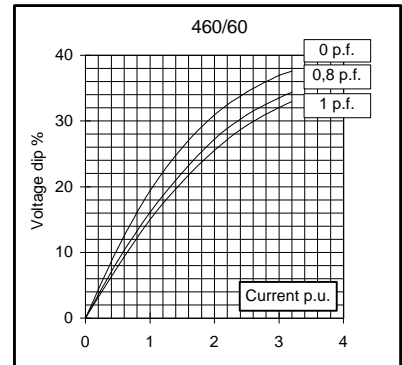
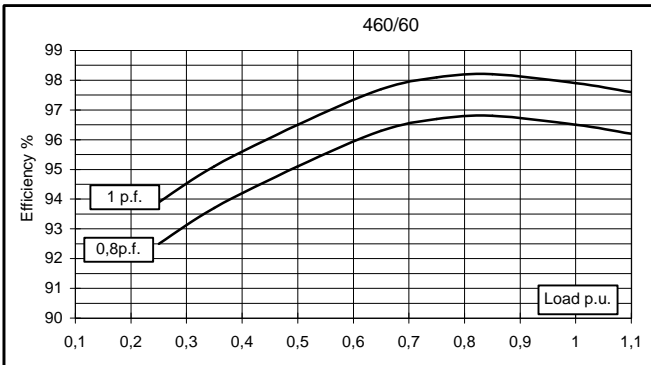
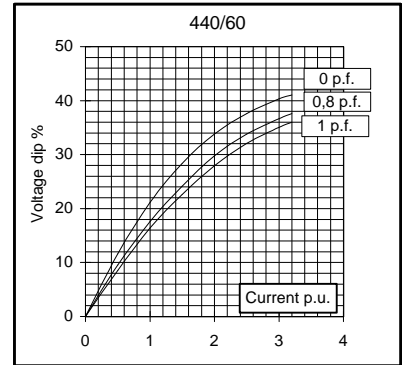
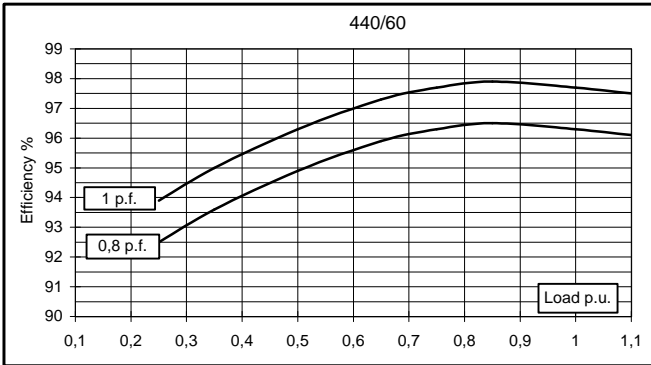
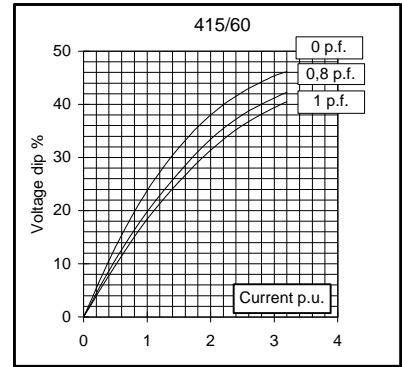
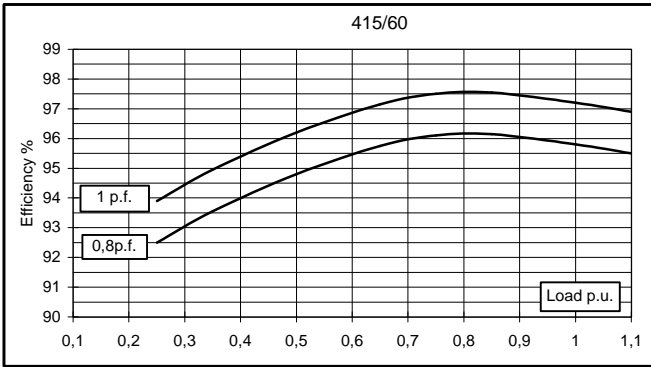
All technical data are to be considered as a reference and they can be modified without any notice.

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**50 Hz**

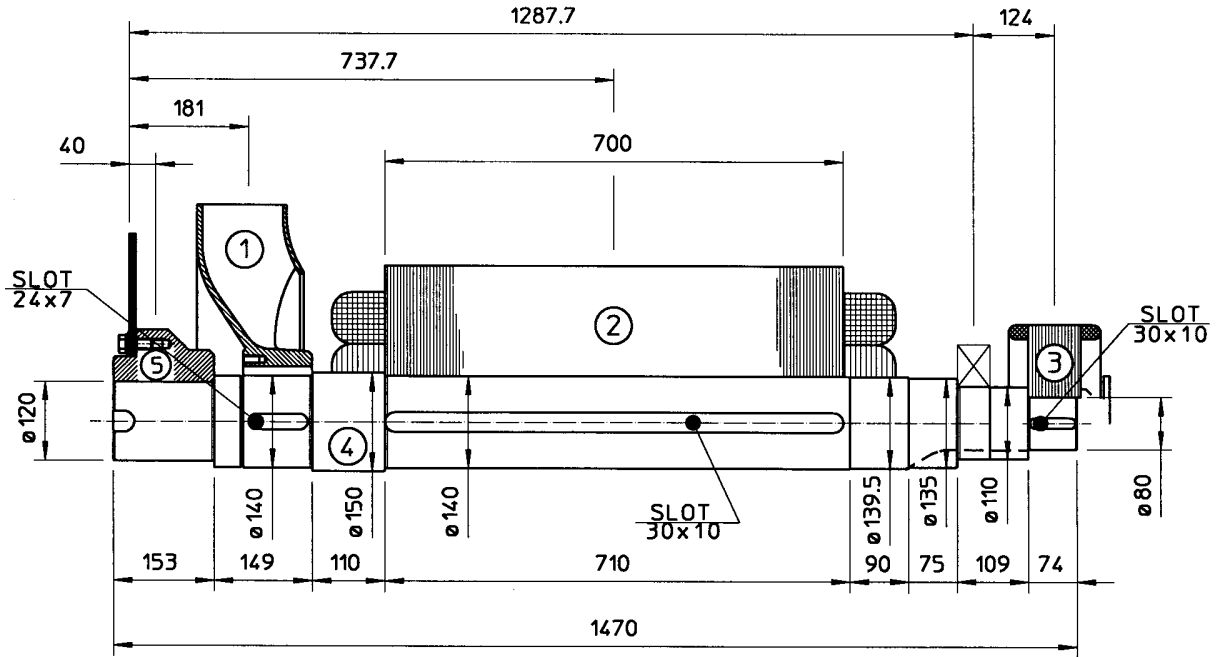


**60 Hz**





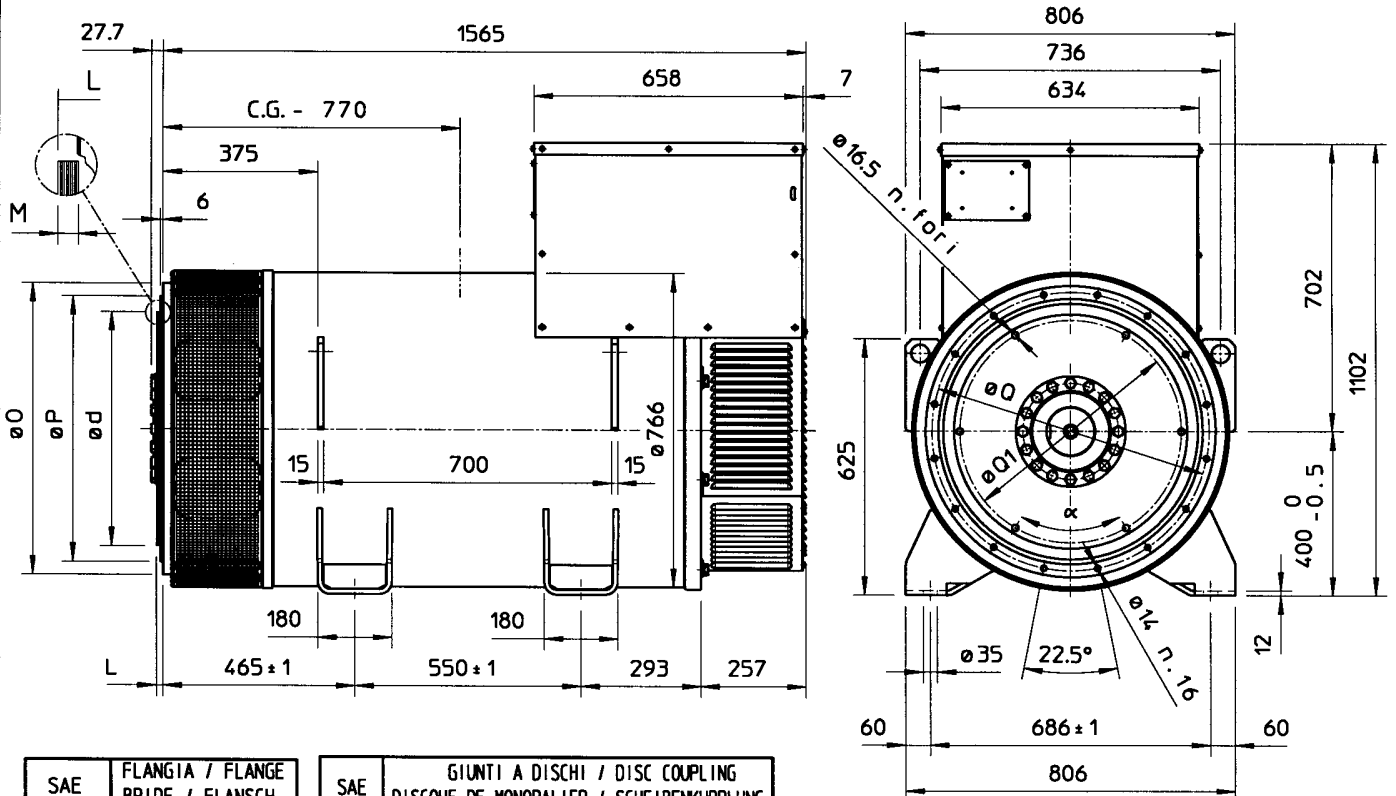
# SINGLE BEARING MOMENTS OF INERTIA



| COMPONENT    | WEIGHT kg | J kgm <sup>2</sup> |
|--------------|-----------|--------------------|
| 1 FAN        | 27        | 1.12               |
| 2 MAIN ROTOR | 759       | 23.351             |
| 3 EX. ROTOR  | 40        | 0.629              |
| 4 SHAFT      | 162.5     | 0.460              |
| TOTAL        | 988.5     | 25.56              |

| SAE N. | WEIGHT kg | J kgm <sup>2</sup> |
|--------|-----------|--------------------|
| 5      | 69.9      | 1.065              |

# SINGLE BEARING DIMENSIONS



| SAE N. | FLANGIA / FLANGE<br>BRIDE / FLANSCH |       |       |
|--------|-------------------------------------|-------|-------|
|        | O                                   | P     | 0     |
| 0      | 711                                 | 647.7 | 679.5 |
| 00     | 883                                 | 787.4 | 850.9 |

| SAE N. | GIUNTI A DISCHI / DISC COUPLING<br>DISQUE DE MONOPALIER / SCHEIBENKUPPLUNG |      |    |        |        |     |  |
|--------|--|------|----|--------|--------|-----|--|
|        | d  | L    | M  | 01     | N.FORI | α   |  |
| 18     | 571.5  | 15.7 | 10 | 542.92 | 6      | 60° |  |
| 21     | 673.1  | 0    | 12 | 641.35 | 12     | 30° |  |

C.G.= GRAVITY CENTER