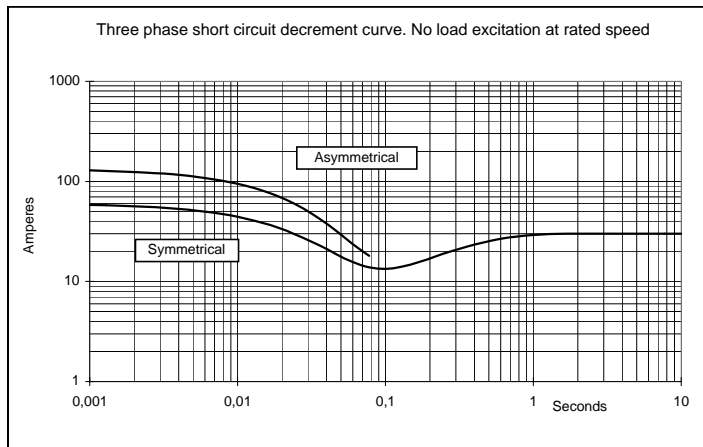
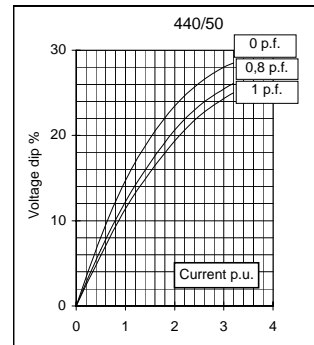
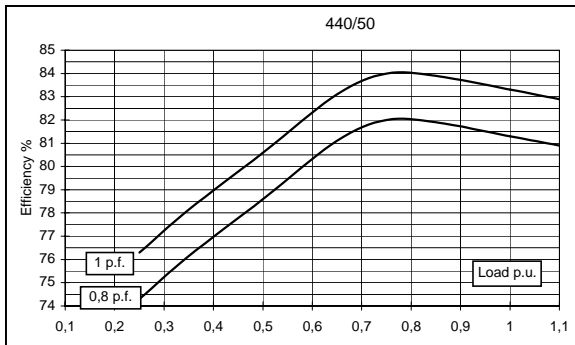
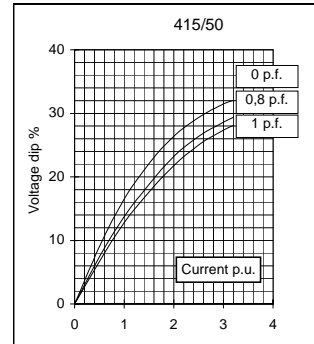
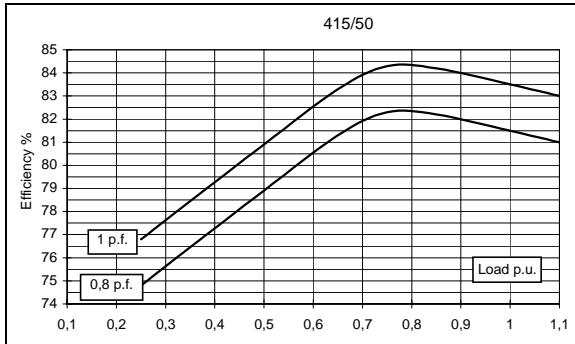
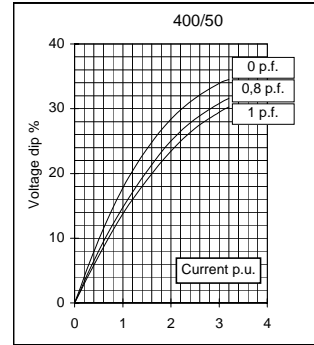
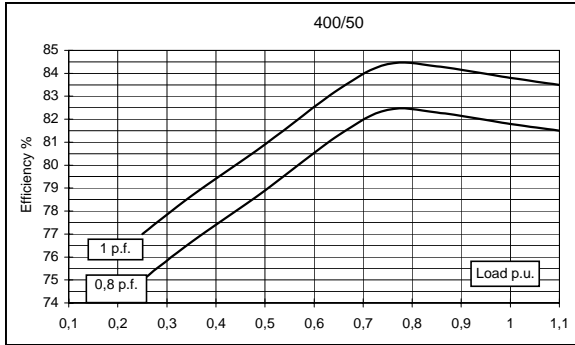
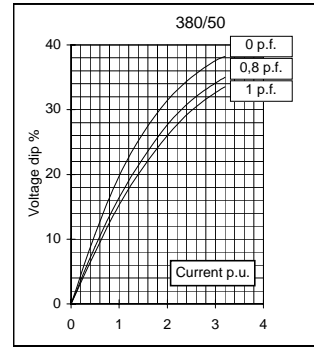
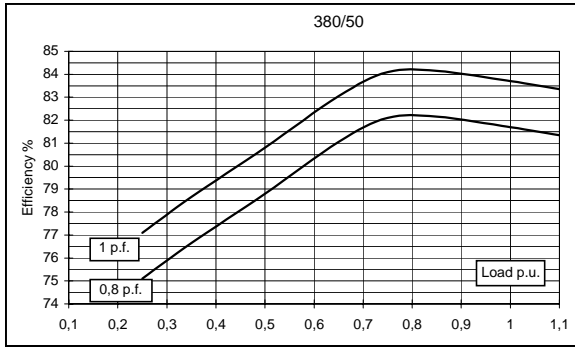


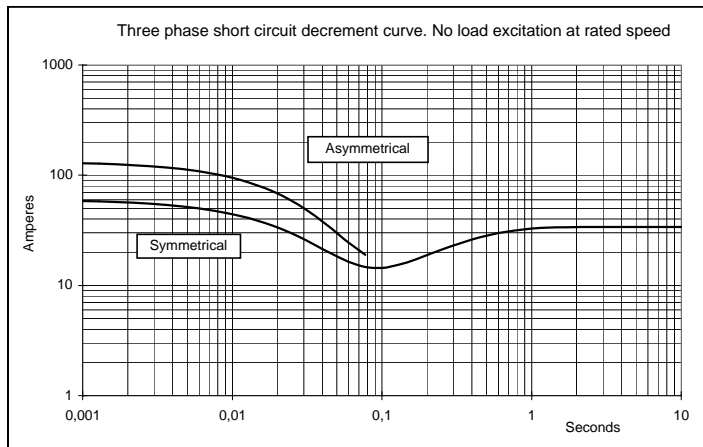
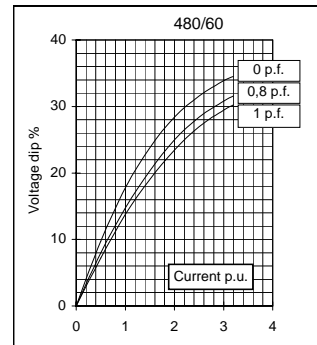
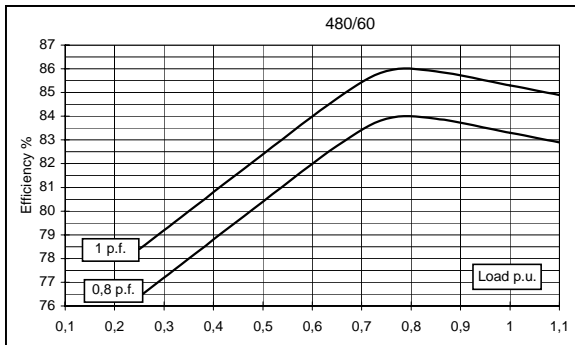
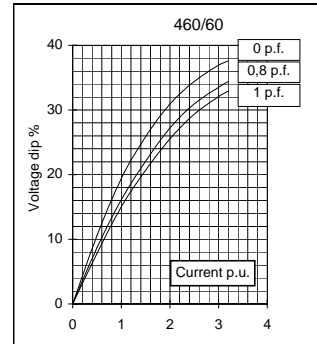
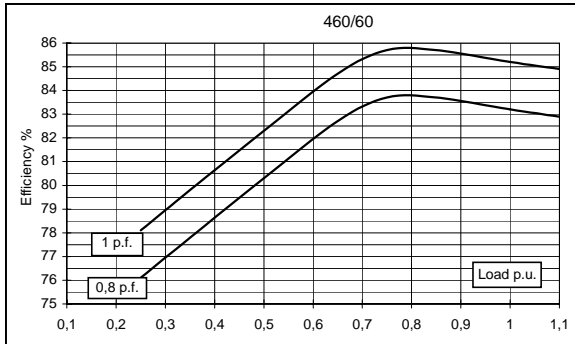
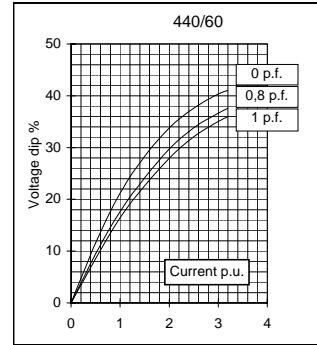
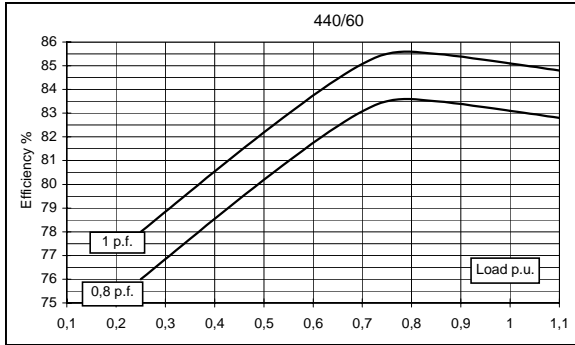
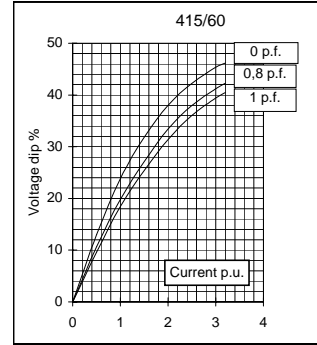
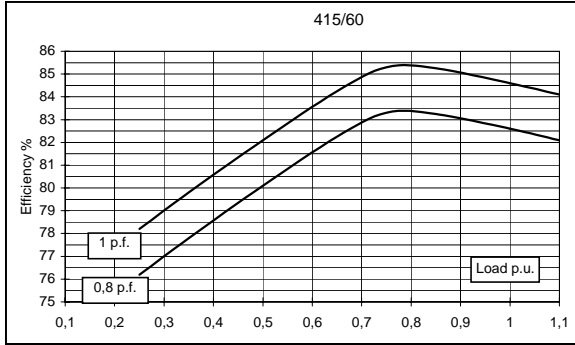
| Electrical Characteristics | | | | | | | | | | |
|--------------------------------------|----------------|--|--|-------|-------|-------|----------------|-------|-------|-------|
| Frequency | Hz | 50 | | | | 60 | | | | |
| Voltage (star) | V | 380 | 400 | 415 | 440 | 415 | 440 | 460 | 480 | |
| Rated power class H | kVA | 6,5 | 6,5 | 6,5 | 5,5 | 7 | 7,8 | 7,8 | 7,8 | |
| | kW | 5,2 | 5,2 | 5,2 | 4,4 | 5,6 | 6,2 | 6,2 | 6,2 | |
| Rated power class F | kVA | 6 | 6 | 6 | 5 | 5,5 | 6,5 | 7,2 | 7,2 | |
| | kW | 5 | 5 | 5 | 4 | 4,4 | 5,2 | 5,8 | 5,8 | |
| Regulation with SR7/2 | | ±1,5 % with any power factor and speed variations between -5% +30% | | | | | | | | |
| Insulation class | | H | | | | | | | | |
| Execution | | Brushless | | | | | | | | |
| Stator winding | | 6 ends | | | | | | | | |
| Rotor | | without damping cage | | | | | | | | |
| Efficiencies class H | 4/4 | % | 81,7 | 81,8 | 81,5 | 81,3 | 82,6 | 83,1 | 83,2 | 83,3 |
| (see graph. for details) | 3/4 | % | 82,1 | 82,4 | 82,3 | 82 | 83,3 | 83,5 | 83,7 | 83,9 |
| | 2/4 | % | 78,8 | 78,9 | 78,9 | 78,6 | 80,1 | 80,2 | 80,3 | 80,4 |
| | 1/4 | % | 75,1 | 75 | 74,8 | 74,3 | 76,2 | 76 | 76,1 | 76,4 |
| Reactances (f. l.cl. F) | Xd | % | 187,5 | 169,2 | 157,2 | 118,3 | 203,1 | 201,4 | 184,2 | 169,2 |
| | Xd' | % | 18,39 | 16,6 | 15,42 | 11,61 | 19,93 | 19,76 | 18,07 | 16,6 |
| | Xd'' | % | 15,62 | 14,1 | 13,10 | 9,86 | 16,93 | 16,78 | 15,35 | 14,1 |
| | Xq | % | 65,8 | 59,4 | 55,2 | 41,5 | 71,3 | 70,7 | 64,7 | 59,4 |
| | Xq' | % | 65,8 | 59,4 | 55,2 | 41,5 | 71,3 | 70,7 | 64,7 | 59,4 |
| | Xq'' | % | 75,5 | 68,1 | 63,3 | 47,6 | 81,8 | 81,0 | 74,2 | 68,1 |
| | X ₂ | % | 17,15 | 15,48 | 14,38 | 10,83 | 18,58 | 18,42 | 16,86 | 15,48 |
| | X ₀ | % | 6,76 | 6,1 | 5,67 | 4,27 | 7,32 | 7,26 | 6,64 | 6,1 |
| Short Circuit Ratio | Kcc | | 0,86 | 1 | 1,19 | 1,50 | 0,73 | 0,81 | 0,86 | 1 |
| Time Constants | Td' | sec. | 0,026 | | | | | | | |
| | Td'' | sec. | 0,025 | | | | | | | |
| | Tdo' | sec. | 0,71 | | | | | | | |
| | T _α | sec. | 0,011 | | | | | | | |
| Short Circuit Current Capacity | | % | >300 | | | | >320 | | | |
| Excitation at no load | Amp. | | 0,28 | 0,36 | 0,41 | 0,48 | 0,18 | 0,2 | 0,22 | 0,25 |
| Excitation at full load | Amp. | | 0,99 | 1,08 | 1,1 | 1,2 | 0,75 | 0,8 | 0,9 | 0,95 |
| Overload (long-term) | | % | 1 hour in a 6 hours period 110% rated load | | | | | | | |
| Overload per 20 sec. | | % | 300 | | | | | | | |
| Stator Winding Resistance (20°C) | Ω | | 1,938 | | | | | | | |
| Rotor Winding Resistance (20°C) | Ω | | 6,078 | | | | | | | |
| Exciter Resistance (20 °C) | Ω | | Rotor : 1,453 | | | | Stator : 15,71 | | | |
| Heat dissipation at f.l.cl.H | W | | 1165 | 1157 | 1180 | 1012 | 1180 | 1269 | 1260 | 1251 |
| Telephone Interference | | | THF < 2% | | | | TIF < 45 | | | |
| Radio interference | | | EN60034-1, VDE 0875 K. For others standards apply to factory | | | | | | | |
| Waveform Distors.(THD) at f. load | LL/LN % | | 2,93 / 2,5 | | | | | | | |
| Waveform Distors.(THD) at no load | LL/LN % | | 2,8 / 2,6 | | | | | | | |
| Mechanical characteristics | | | | | | | | | | |
| Protection | | | IP 23 (other protection on request) | | | | | | | |
| DE bearing | | | 6308-2RS | | | | | | | |
| NDE bearing | | | 6305-2RS | | | | | | | |
| Weight of wound stator assembly | kg | | 18,7 | | | | | | | |
| Weight of wound rotor assembly | kg | | 10,2 | | | | | | | |
| Weight of complete generator | kg | | 63 | | | | | | | |
| Maximun overspeed | rpm | | 2250 | | | | | | | |
| Unbalanced magnetic pull at f.l.cl.F | kN/mm | | 2,5 | | | | | | | |
| Cooling air requirement | m³/min | | 3,5 | | | | 3,9 | | | |
| Inertia Constant (H) | sec. | | 0,106 | | | | 0,127 | | | |
| Noise level at 1m/7m | dB(A) | | 72 / 58 | | | | 78 / 60 | | | |

50 Hz



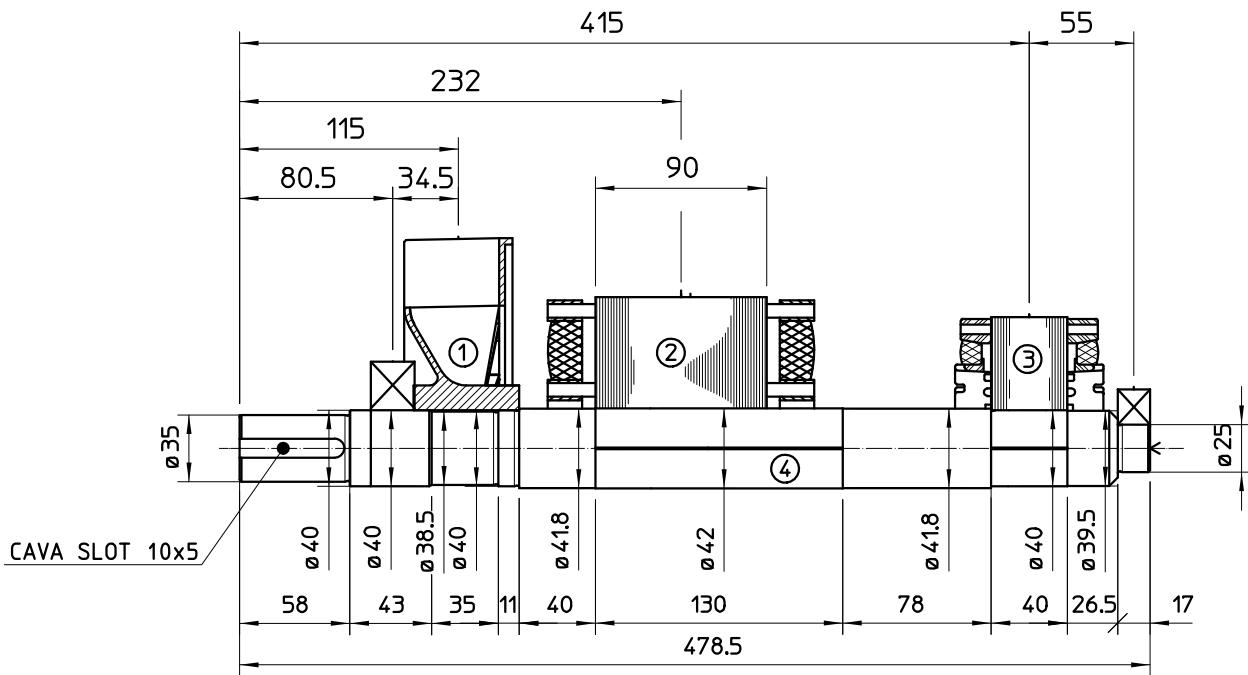
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60 Hz



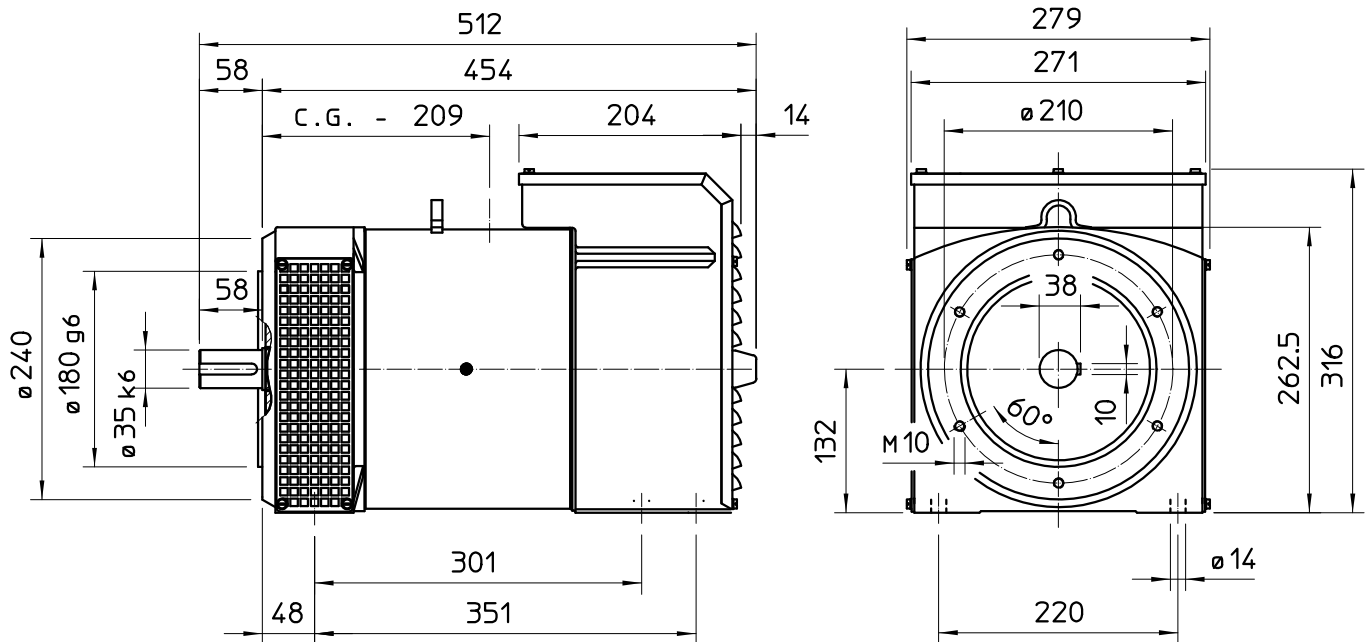
All technical data are to be considered as a reference and they can be modified without any notice
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TWO BEARING MOMENTS OF INERTIA

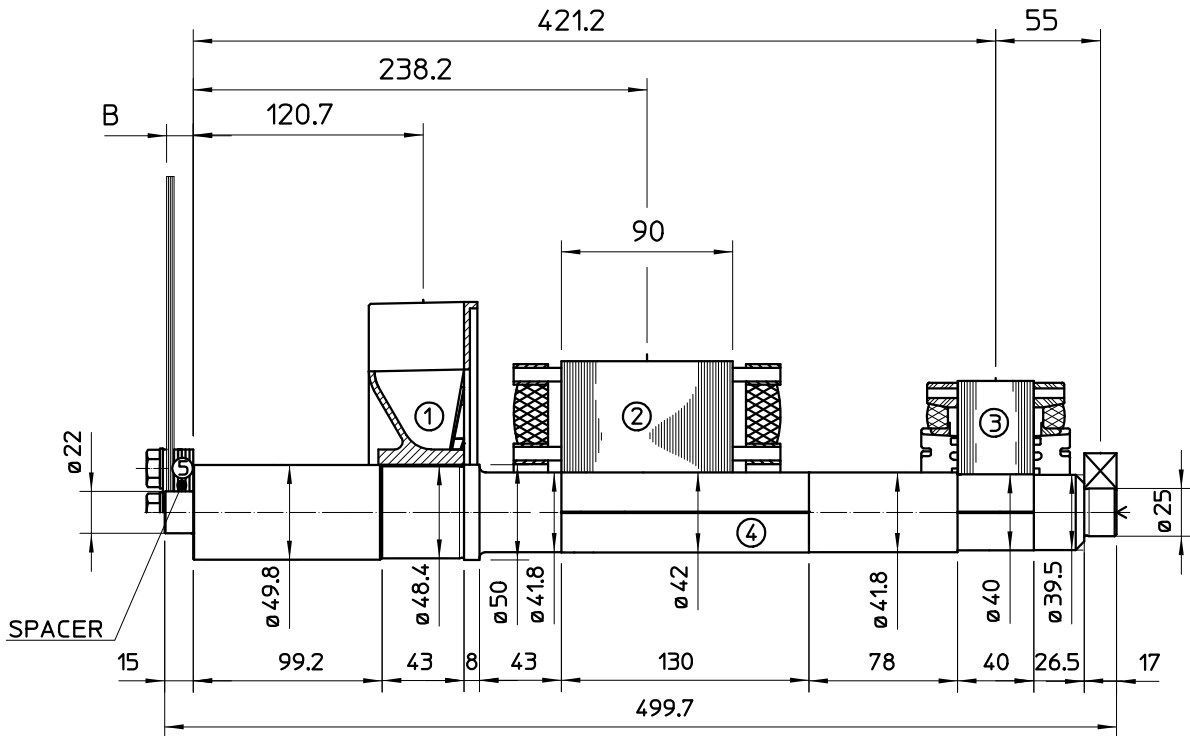


| COMPONENT | WEIGHT Kg | J Kg ² |
|--------------|-----------|-------------------|
| 1 FAN | 0.93 | 0.0036 |
| 2 MAIN ROTOR | 11 | 0.038 |
| 3 EX ROTOR | 4.12 | 0.011 |
| 4 SHAFT | 4.7 | 0.00097 |
| 6 TOTAL | 20.75 | 0.05357 |

TWO BEARING DIMENSIONS



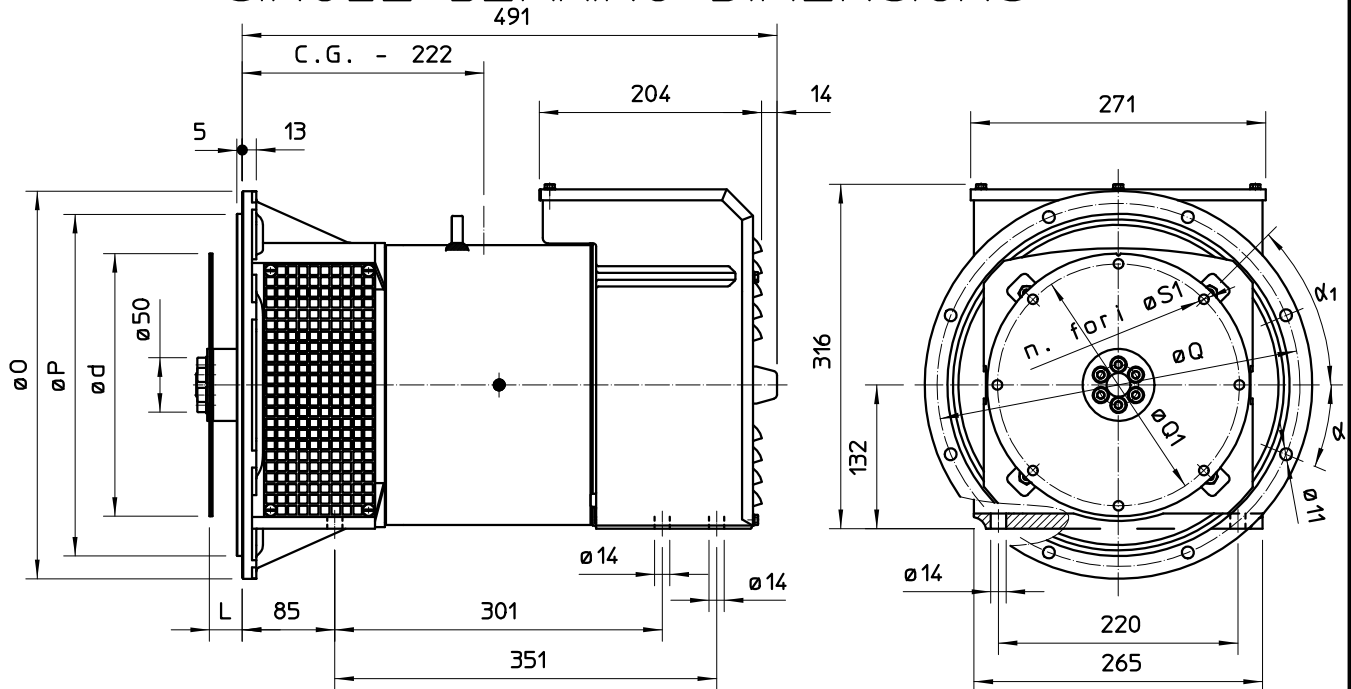
SINGLE BEARING MOMENTS OF INERTIA



| COMPONENT | WEIGHT Kg | J Kg ^m ² |
|--------------|-----------|--------------------------------|
| 1 FAN | 0.82 | 0.0032 |
| 2 MAIN ROTOR | 11 | 0.038 |
| 3 EX ROTOR | 4.12 | 0.011 |
| 4 SHAFT | 5.6 | 0.0012 |
| 6 TOTAL | 21.54 | 0.0534 |

| SAE N. | B (mm) | WEIGHT kg | J kg ^m ² |
|--------|--------|-----------|--------------------------------|
| 5 | 14 | 3.1 | 0.0481 |
| 6 1/2 | 4 | 1.14 | 0.0067 |
| 7 1/2 | 4 | 1.42 | 0.0103 |
| 8 | 35.6 | 1.97 | 0.0171 |
| 10 | 27.6 | 2.59 | 0.0319 |
| 11 1/2 | 14 | 3.1 | 0.0481 |

SINGLE BEARING DIMENSIONS



GIUNTI A DISCO COUPLING DISC PLATEX
DISQUE DE MONOPALIER SCHEIBENKUPPLUNG
JUNTAS A DISCOS

| FLANGIA FLANGE BRIDE FLANSCH BRIDAS | SAE N. | O | P | Q | n. fori | α |
|---|--------|-----|-------|--------|---------|--------|
| | 6 | 308 | 266.7 | 285.75 | 8 | 22°30' |
| | 5 | 356 | 314.3 | 333.4 | 8 | 22°30' |
| | 4 | 403 | 362 | 381 | 12 | 15° |
| | 3 | 451 | 409.6 | 428.6 | 12 | 15° |

| SAE N. | L | d | Q1 | n. fori | S1 | α1 |
|--------|------|--------|--------|---------|----|-----|
| 6 1/2 | 30.2 | 215.9 | 200 | 6 | 9 | 60° |
| 7 1/2 | 30.2 | 241.3 | 222.25 | 8 | 9 | 45° |
| 8 | 62 | 263.52 | 244.47 | 6 | 11 | 60° |
| 10 | 53.8 | 314.32 | 295.27 | 8 | 11 | 45° |
| 11 1/2 | 39.6 | 352.42 | 333.37 | 8 | 11 | 45° |

C.G. = GRAVITY CENTER