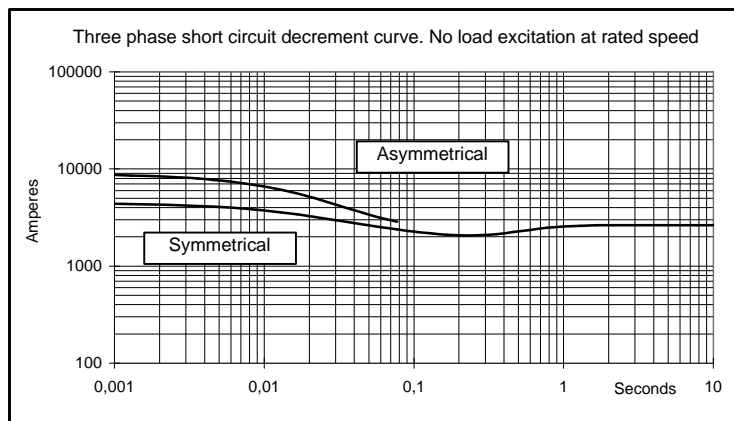
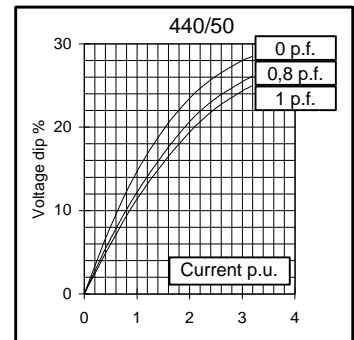
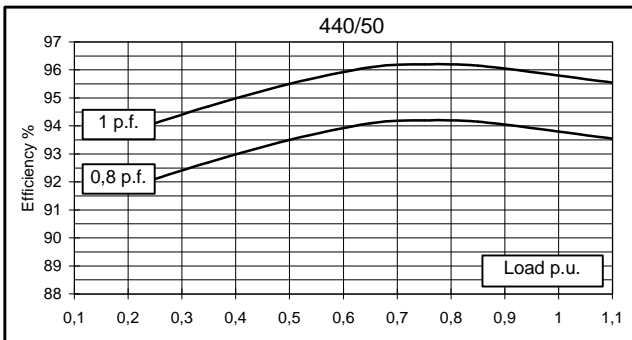
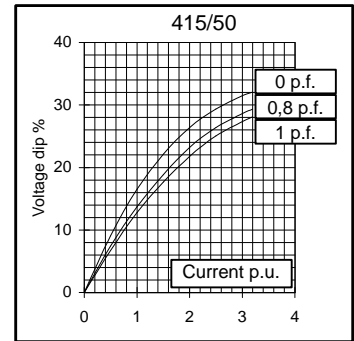
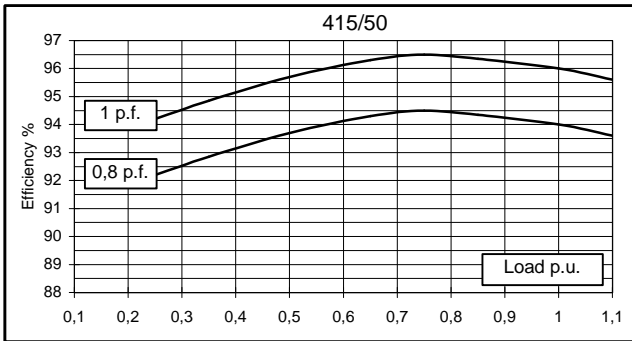
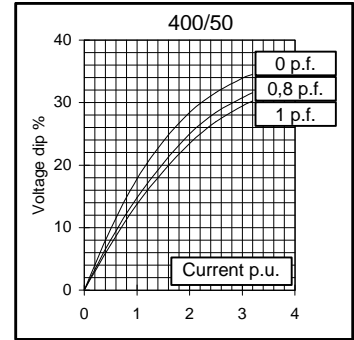
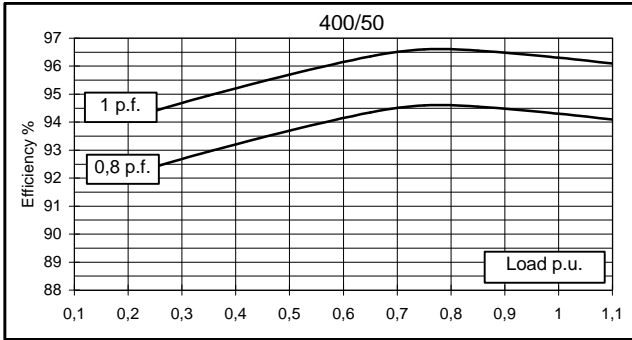
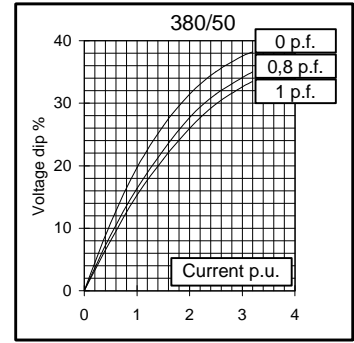
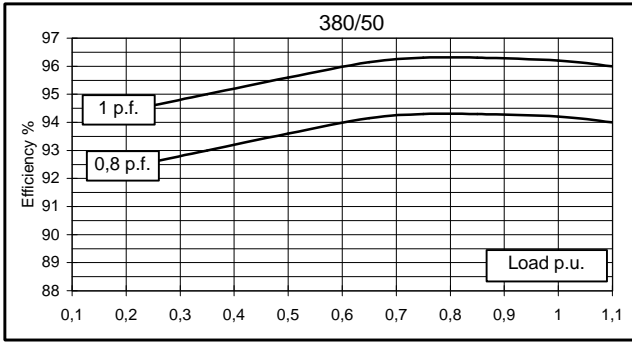


| Electrical Characteristics | | | | | | | | | | |
|--------------------------------------|---------------------|---|---|-------|-------|-------|---------------|-------|-------|-------|
| Frequency | Hz | 50 | | | | 60 | | | | |
| Voltage (parallel star) | V | 380 | 400 | 415 | 440 | 415 | 440 | 460 | 480 | |
| Rated power class H | kVA | 620 | 620 | 620 | 570 | 660 | 700 | 744 | 744 | |
| | kW | 496 | 496 | 496 | 456 | 528 | 560 | 595 | 595 | |
| Rated power class F | kVA | 560 | 560 | 560 | 515 | 600 | 632 | 672 | 672 | |
| | kW | 448 | 448 | 448 | 412 | 480 | 506 | 538 | 538 | |
| 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 | % | 94,2 | 94,3 | 94 | 93,8 | 95 | 95,5 | 95,6 | 95,7 |
| (see graph. for details) | 3/4 | % | 94,3 | 94,6 | 94,5 | 94,2 | 95,8 | 96 | 96,1 | 96,4 |
| | 2/4 | % | 93,6 | 93,7 | 93,7 | 93,5 | 95 | 95,1 | 95,2 | 95,3 |
| | 1/4 | % | 92,6 | 92,4 | 92,2 | 92,1 | 93,8 | 93,9 | 93,9 | 93,8 |
| Reactances (f. l.cl. F) | Xd | % | 300,3 | 271 | 251,8 | 205,9 | 321,6 | 303,4 | 295,1 | 271 |
| | Xd' | % | 29,4 | 26,5 | 24,6 | 20,1 | 31,4 | 29,7 | 28,9 | 26,5 |
| | Xd'' | % | 18,2 | 16,4 | 15,2 | 12,5 | 19,5 | 18,4 | 17,9 | 16,4 |
| | Xq | % | 162,9 | 147 | 136,6 | 111,7 | 174,5 | 164,6 | 160,1 | 147 |
| | Xq' | % | 162,9 | 147 | 136,6 | 111,7 | 174,5 | 164,6 | 160,1 | 147 |
| | Xq'' | % | 22,5 | 20,3 | 18,9 | 15,4 | 24,1 | 22,7 | 22,1 | 20,3 |
| | X ₂ | % | 20,5 | 18,5 | 17,2 | 14,1 | 22,0 | 20,7 | 20,1 | 18,5 |
| | X ₀ | % | 3,2 | 2,9 | 2,7 | 2,2 | 3,4 | 3,2 | 3,2 | 2,9 |
| Short Circuit Ratio | Kcc | | 0,35 | 0,40 | 0,75 | 1,30 | 0,23 | 0,27 | 0,35 | 0,40 |
| Time Constants | Td' | sec. | 0,132 | | | | | | | |
| | Td'' | sec. | 0,0164 | | | | | | | |
| | Tdo' | sec. | 2,89 | | | | | | | |
| | Tα | sec. | 0,037 | | | | | | | |
| Short Circuit Current Capacity | | % | >300 | | | | >350 | | | |
| Excitation at no load | | Amp. | 0,65 | 0,74 | 0,8 | 0,95 | 0,47 | 0,54 | 0,6 | 0,65 |
| Excitation at full load | | Amp. | 3 | 3,1 | 3,5 | 3,6 | 2,3 | 2,5 | 2,8 | 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 | 0,0087 | | | | | | | |
| Rotor Winding Resistance (20°C) | | Ω | 6,832 | | | | | | | |
| Exciter Resistance (20 °C) | | Ω | Rotor : 0,317 | | | | Stator : 8,85 | | | |
| Heat dissipation at f.l.cl.H | | W | 30539 | 29981 | 31660 | 30141 | 27789 | 26387 | 27394 | 26744 |
| 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 % | | 2,2 / 2,4 | | | | | | | |
| Waveform Distors.(THD) at no load | LL/LN % | | 2,4 / 2,5 | | | | | | | |
| Mechanical characteristics | | | | | | | | | | |
| Protection | | | IP 21 (other protection on request) | | | | | | | |
| DE bearing | | | 6322 | | | | | | | |
| NDE bearing | | | 6318.2RS | | | | | | | |
| Weight of wound stator assembly | kg | | 524 | | | | | | | |
| Weight of wound rotor assembly | kg | | 369 | | | | | | | |
| Weight of complete generator | kg | | 1380 | | | | | | | |
| Maximun overspeed | rpm | | 2250 | | | | | | | |
| Unbalanced magnetic pull at f.l.cl.F | kN/mm | | 6,1 | | | | | | | |
| Cooling air requirement | m ³ /min | | 54 | | | | 64,8 | | | |
| Inertia Constant (H) | sec. | | 0,179 | | | | 0,214 | | | |
| Noise level at 1m/7m | dB(A) | | 94 / 82 | | | | 98 / 88 | | | |

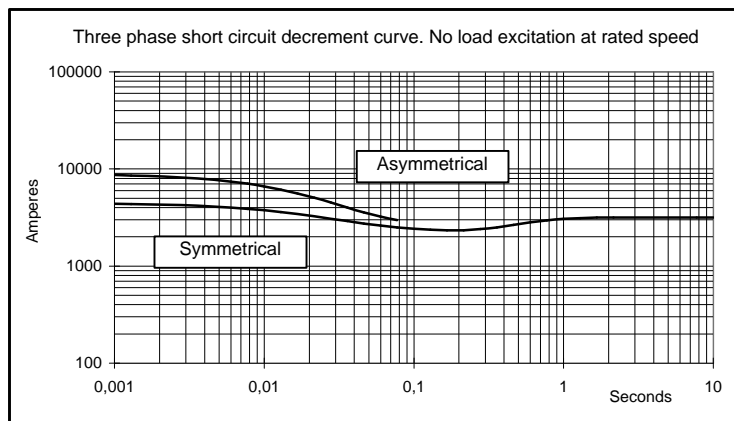
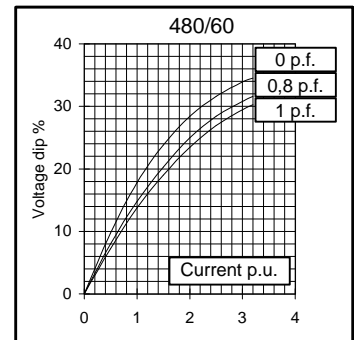
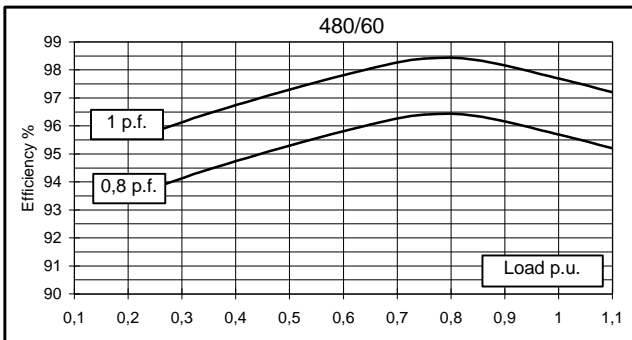
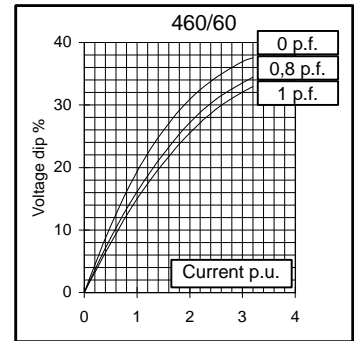
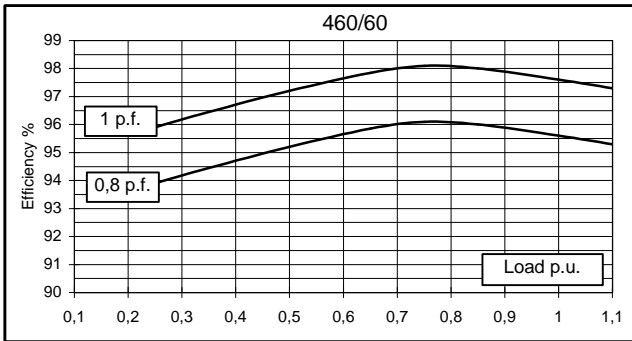
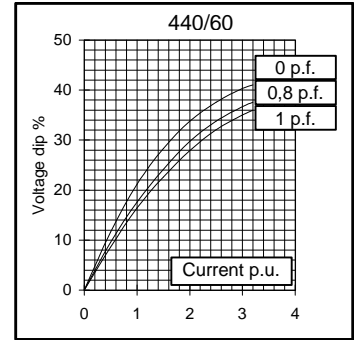
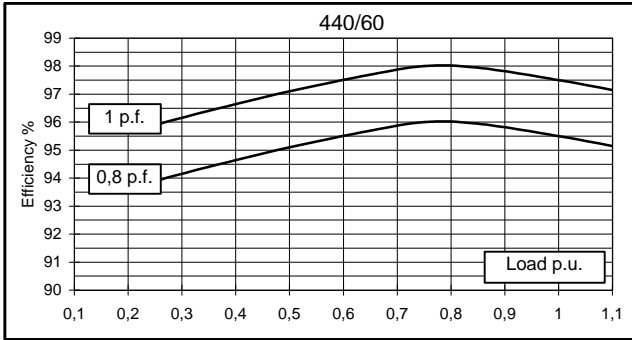
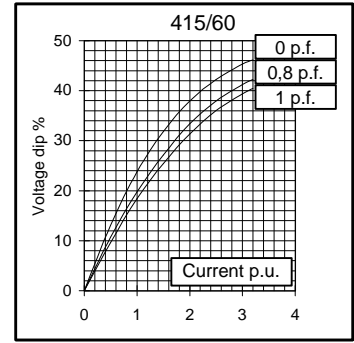
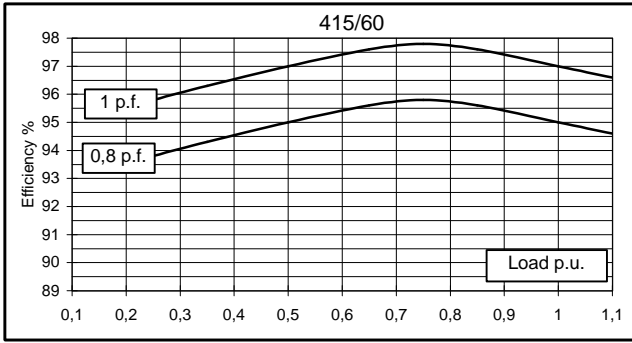
All technical data are to be considered as a reference and they can be modified without any notice.

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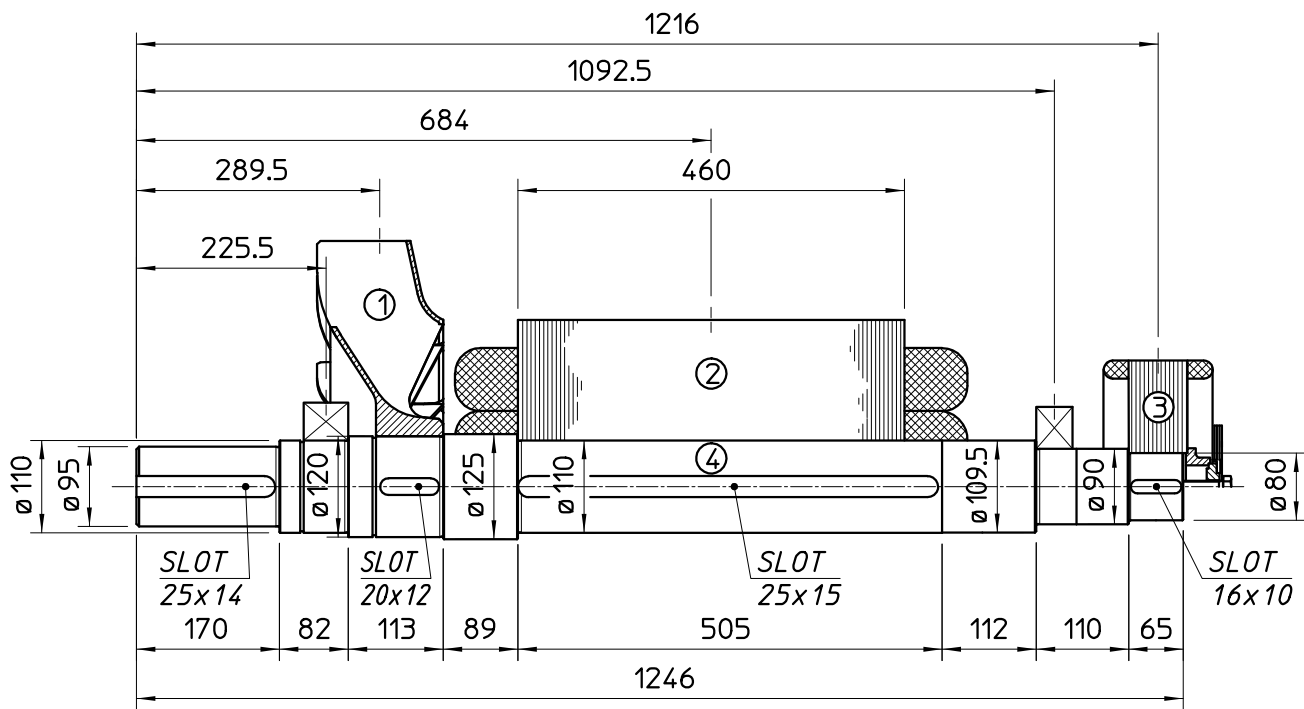
50 Hz



60 Hz

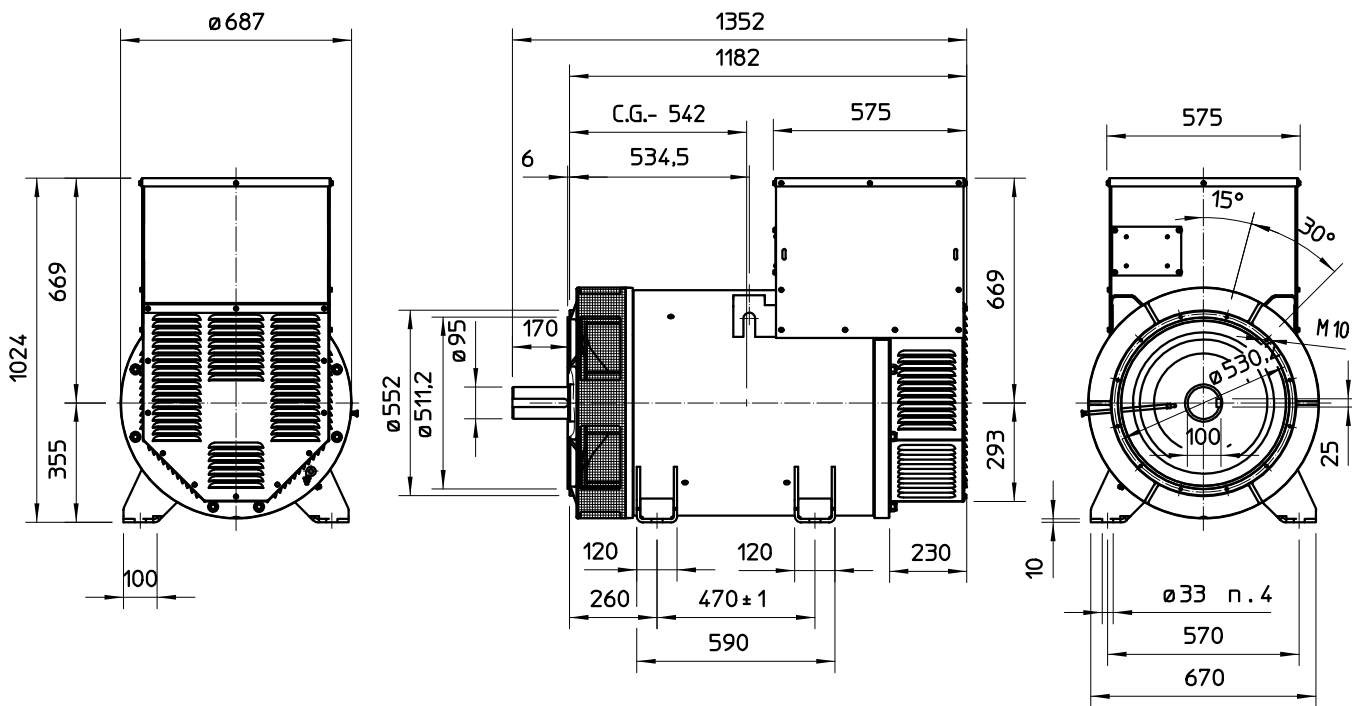


TWO BEARING MOMENTS OF INERTIA



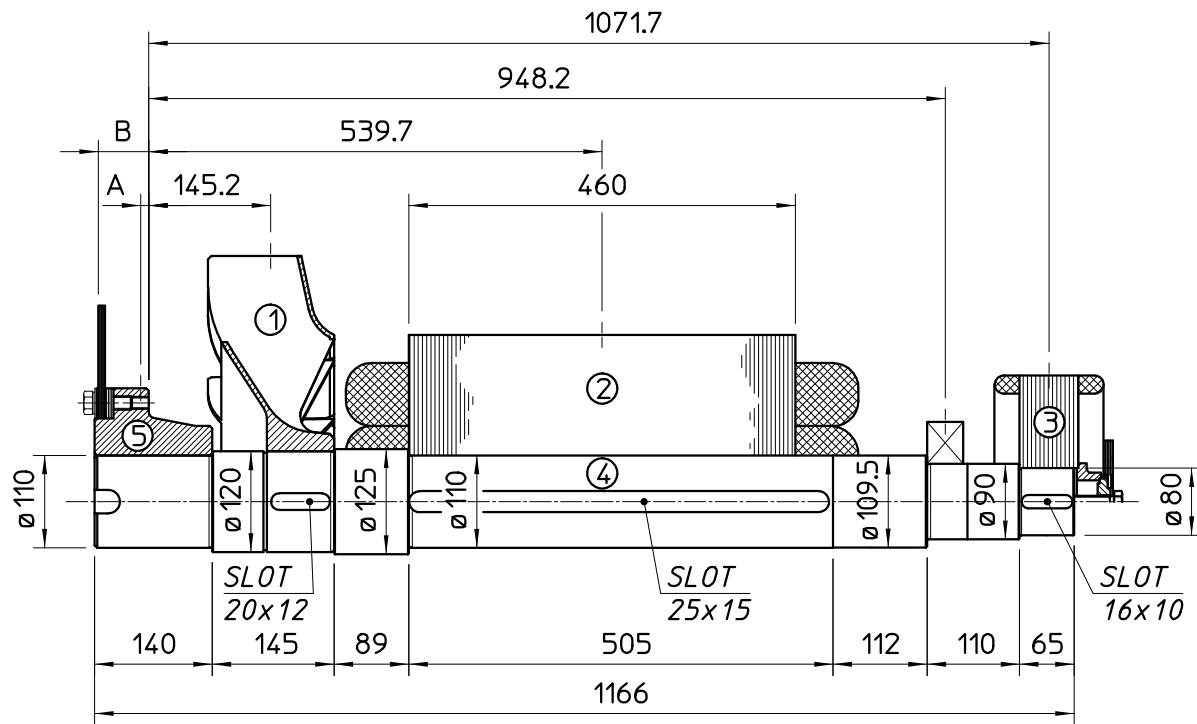
| COMPONENT | WEIGHT kg | J kgm ² |
|--------------|-----------|--------------------|
| 1 FAN | 16 | 0.550 |
| 2 MAIN ROTOR | 369 | 7.715 |
| 3 EX. ROTOR | 35 | 0.562 |
| 4 SHAFT | 87.3 | 0.127 |
| TOTAL | 507.5 | 8.954 |

TWO BEARING DIMENSIONS



C.G.= GRAVITY CENTER

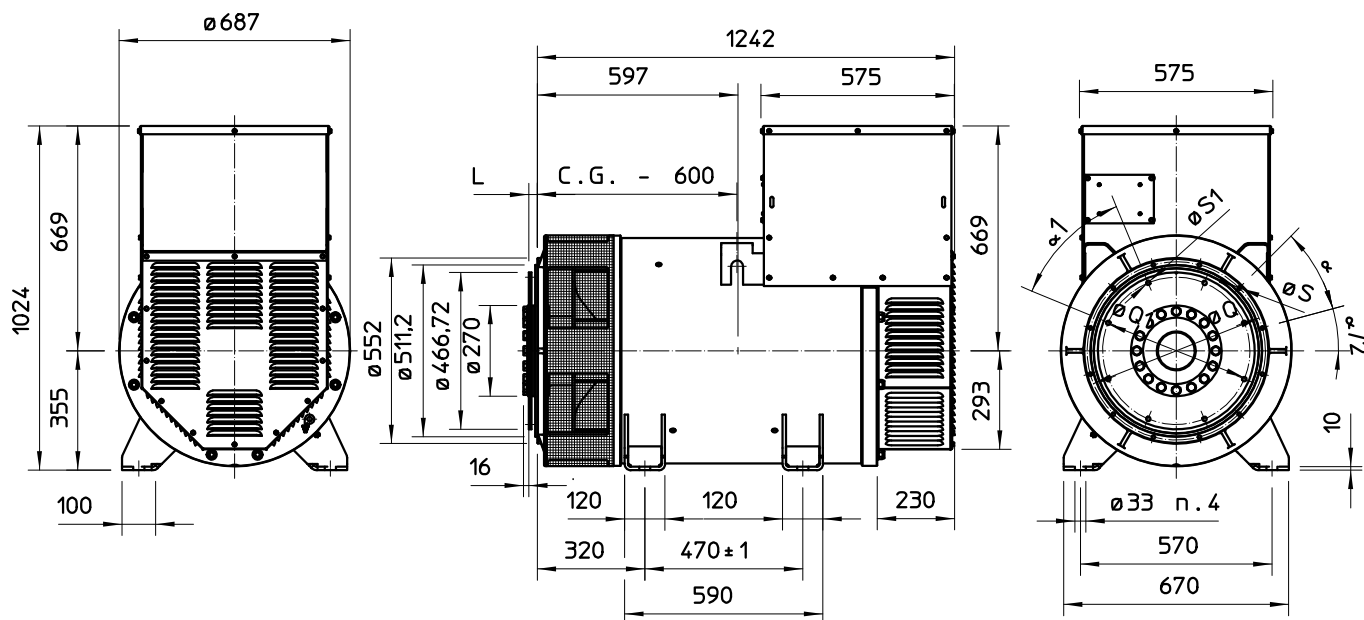
SINGLE BEARING MOMENTS OF INERTIA



| COMPONENT | WEIGHT kg | J kgm ² |
|--------------|-----------|--------------------|
| 1 FAN | 16 | 0.550 |
| 2 MAIN ROTOR | 369 | 7.715 |
| 3 EX. ROTOR | 35 | 0.562 |
| 4 SHAFT | 85 | 0.124 |
| TOTAL | 505 | 8.951 |

| SAE No | SHAFTS COUPLING FLEX PLATE | | | |
|--------|----------------------------|----|-----------|--------------------|
| | A | B | WEIGHT kg | J kgm ² |
| 14 | 9,6 | 60 | 41,4 | 0,511 |
| 18 | 6,6 | 50 | 45,1 | 0,858 |

SINGLE BEARING DIMENSIONS



| SAE N. | DISC COUPLING | | | | | |
|--------|---------------|--------|--------|---------|----|-----|
| | L | d | Q1 | N. FORI | S1 | Q1 |
| 14 | 25,4 | 466,72 | 438,15 | 8 | 14 | 45° |
| 18 | 15,7 | 571,5 | 542,92 | 6 | 17 | 60° |

| SAE N. | FLANGE | | | | | |
|--------|--------|-------|-------|---------|----|--------|
| | O | P | Q | N. FORI | S | Q |
| 1 | 552 | 511,2 | 530,2 | 12 | 11 | 15° |
| 1/2 | 648 | 584,2 | 619,1 | 12 | 14 | 15° |
| 0 | 711 | 647,7 | 679,5 | 16 | 14 | 11°15' |
| 00 | 883 | 787,4 | 850,9 | 16 | 14 | 11°15' |

C.G.= GRAVITY CENTER