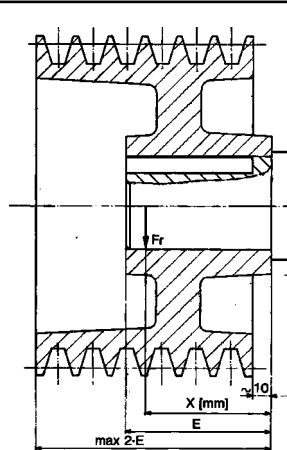


| Pacco <i>Lenght</i> | Max potenza eccitazione <i>Max excitation power</i> | Momento di inerzia <i>Moment of inertia</i> | Dimensioni spazzole <i>Brushes dimensions</i> | Cuscinetto lato accoppiamento <i>Drive end bearing</i> | | Cuscinetto lato collettore <i>No-drive end bearing</i> | Peso <i>Weight</i> |
|------------------------|---|---|---|---|-------------------------|--|-----------------------|
| | | | | Sfere <i>Balls</i> | Rulli <i>Rollers</i> | | |
| | W | Kg · m ² | mm | | | | Kg |
| S | 900 | 0.2300 | 12.5x32x40 | 6312 - 2Z - C3 | NU 312 | 6310 - 2Z - C3 | 235 |
| M | 1060 | 0.2800 | | | | | 265 |
| L | 1220 | 0.3400 | | | | | 295 |
| P | 1390 | 0.4000 | | | | | 330 |

| Dati ventilazione <i>Ventilation</i> | | Elettroventilatore <i>Electrofan</i> | | Rumorosità <i>Noise</i> |
|---|-------------------------------|---|--------------------------------|----------------------------|
| Portata <i>Air flow</i> | Prevalenza <i>Pressure</i> | Potenza <i>Power</i> | I a 380 V <i>I at 380 V</i> | |
| m ³ /h | mm H ₂ O | Kw | A | dB _A |
| 1100 | 125 | 1.1 | 2.6 | 82 |

Carico radiale (Newton) ammissibile per una durata teorica del cuscinetto lato accoppiamento di 20.000 ore
Admitted radial load (Newton) for a theoetic 20.000 hours of the drive end bearing

|  | rpm | 200 | 400 | 600 | 1000 | 1200 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 | 5000 | | |
|---|------|----------------|------|----------|------|------|------|------|------|------|------|------|------|-----|--|
| | | 6312 - 2Z - C3 | X | Fr (daN) | | | | | | | | | | | |
| | | | 0 | 1140 | 785 | 770 | 633 | 595 | 544 | 484 | 445 | 418 | 393 | 370 | |
| 30 | 1090 | | 853 | 738 | 608 | 572 | 523 | 465 | 425 | 402 | 378 | 356 | | | |
| 60 | 960 | | 818 | 707 | 582 | 547 | 500 | 445 | 406 | 384 | 362 | 340 | | | |
| 90 | 700 | | 700 | 684 | 563 | 530 | 484 | 430 | 393 | 372 | 350 | 320 | | | |
| 110 | 610 | | 610 | 610 | 545 | 512 | 470 | 417 | 380 | 360 | 330 | 320 | | | |
| NU 312 | X | Fr (daN) | | | | | | | | | | | | | |
| | 0 | 1850 | 1700 | 1520 | 1270 | 1210 | 1127 | 1045 | 940 | 900 | 860 | 810 | | | |
| | 30 | 1160 | 1160 | 1160 | 1160 | 1160 | 1080 | 1000 | 905 | 860 | 820 | 780 | | | |
| | 60 | 960 | 960 | 960 | 960 | 960 | 960 | 960 | 867 | 825 | 790 | 750 | | | |
| | 90 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | | | |
| | 110 | 610 | 610 | 610 | 610 | 610 | 610 | 610 | 610 | 610 | 610 | 610 | | | |

MM 160 M

| | VELOCITÀ [rpm] ALLE TENSIONI | | | | | | P [kw] | I [A] | η [%] | ARMATURA | |
|---|------------------------------|------|------|------|------|------|--------|-------|------------|----------|----------------------|
| | 220V | 260V | 330V | 400V | 440V | 520V | | | | L [mH] | R ₁₁₅ [Ω] |
| A | 1700 | | | | | | 45.8 | 236 | 0.882 | 0.8 | 0.08 |
| | | 2040 | | | | | 54.5 | 234 | 0.896 | | |
| | | | 2640 | | | | 69 | 229 | 0.911 | | |
| | | | | 3240 | | | 82.3 | 223 | 0.921 | | |
| | | | | | | | | | | | |
| B | 1230 | | | | | | 34.2 | 181 | 0.854 | 1.4 | 0.14 |
| | | 1490 | | | | | 41 | 181 | 0.873 | | |
| | | | 1940 | | | | 52.8 | 179 | 0.895 | | |
| | | | | 2390 | | | 64.1 | 176 | 0.908 | | |
| | | | | | 2640 | | 70.3 | 175 | 0.913 | | |
| | | | | | | 3150 | 75.7 | 159 | 0.917 | | |
| C | 950 | | | | | | 26.6 | 145 | 0.829 | 2.2 | 0.21 |
| | | 1160 | | | | | 32.3 | 145 | 0.855 | | |
| | | | 1520 | | | | 41.9 | 144 | 0.88 | | |
| | | | | 1880 | | | 51.3 | 143 | 0.897 | | |
| | | | | | 2090 | | 56.6 | 142 | 0.904 | | |
| D | | | | | | | 63.6 | 135 | 0.907 | 3.2 | 0.31 |
| | 770 | | | | | | 21.4 | 121 | 0.804 | | |
| | | 940 | | | | | 26 | 120 | 0.83 | | |
| | | | 1240 | | | | 34.1 | 120 | 0.861 | | |
| | | | | 1540 | | | 42.1 | 119 | 0.881 | | |
| E | | | | | | | 46.5 | 119 | 0.890 | 4.4 | 0.44 |
| | | | | | | | 54.8 | 117 | 0.902 | | |
| | | 780 | | | | | 21.4 | 102 | 0.8 | | |
| | | | 1030 | | | | 28.3 | 102 | 0.838 | | |
| | | | | 1290 | | | 35.2 | 102 | 0.862 | | |
| F | | | | | | | 39.1 | 102 | 0.873 | 5.7 | 0.58 |
| | | | | | | | 46 | 100 | 0.886 | | |
| | | 660 | | | | | 18.2 | 90.3 | 0.773 | | |
| | | | 880 | | | | 24.4 | 90.2 | 0.817 | | |
| | | | | 1110 | | | 30.5 | 90 | 0.845 | | |
| G | | | | | | | 33.9 | 89.8 | 0.857 | 7.2 | 0.73 |
| | | | | | | | 40.7 | 89.3 | 0.875 | | |
| | | | | | | | 21.1 | 79.8 | 0.799 | | |
| | | | 770 | | | | 26.5 | 79.7 | 0.831 | | |
| | | | | 970 | | | 29.6 | 79.6 | 0.844 | | |
| H | | | | | | | 35.7 | 79.3 | 0.865 | 8.8 | 0.91 |
| | | | | | | | 18.4 | 71.4 | 0.779 | | |
| | | | | | | | 23.3 | 71.3 | 0.814 | | |
| | | | 670 | | | | 26 | 71.3 | 0.829 | | |
| | | | | 850 | | | 31.5 | 71.1 | 0.852 | | |
| I | | | | | | | | | | 10.7 | 1.2 |
| | | | | | | | 20.4 | 65.5 | 0.78 | | |
| | | | | | | | 23 | 65.4 | 0.798 | | |
| | | | | 740 | | | 28.1 | 65.3 | 0.826 | | |
| | | | | | 840 | | | | | | |
| | | | | | 1020 | | | | | | |

| | VELOCITÀ [rpm] ALLE TENSIONI | | | | | | P [kw] | I [A] | η [%] | ARMATURA | |
|---|------------------------------|------|------|------|------|------|--------|-------|------------|----------|----------------------|
| | 220V | 260V | 330V | 400V | 440V | 520V | | | | L [mH] | R ₁₁₅ [Ω] |
| J | | | | | | | | | | 12.7 | 1.5 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | 660 | | 17.9 | 59.2 | 0.755 | | |
| | | | | | | 740 | 20.2 | 59.2 | 0.775 | | |
| K | | | | | | | | | | 15 | 1.7 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | 680 | 18.6 | 55.3 | 0.764 | | |
| | | | | | | | 830 | 22.9 | 55.3 | | |
| L | | | | | | | | | | 17.3 | 2 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | 760 | 20.5 | 50.3 | | |
| M | | | | | | | | | | 19.9 | 2.3 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | 700 | 18.9 | 47.4 | | |

I dati riportati fanno riferimento a motori:

- con ventilazione assistita addossata PVA
- in servizio continuo CEI S1
- con alimentazione con fattore di forma = 1
- con temperatura massima ambiente 40 °C
- con altitudine s.l.m. max 1000 m.

MM 160 L

| | VELOCITÀ [rpm] ALLE TENSIONI | | | | | | P [kw] | I [A] | η [%] | ARMATURA | |
|---|------------------------------|------|------|------|------|------|--------|-------|------------|----------|----------------------|
| | 220V | 260V | 330V | 400V | 440V | 520V | | | | L [mH] | R ₁₁₅ [Ω] |
| A | 1330 | | | | | | 44.7 | 232 | 0.873 | 1 | 0.092 |
| | | 1600 | | | | | 53.5 | 231 | 0.889 | | |
| | | | 2070 | | | | 68.4 | 229 | 0.906 | | |
| | | | | 2550 | | | 82.7 | 225 | 0.917 | | |
| | | | | | 2820 | | 90.6 | 223 | 0.922 | | |
| B | 960 | | | | | | 32.9 | 178 | 0.841 | 1.8 | 0.16 |
| | | 1160 | | | | | 39.9 | 177 | 0.863 | | |
| | | | 1520 | | | | 51.7 | 177 | 0.887 | | |
| | | | | 1870 | | | 63.3 | 175 | 0.902 | | |
| | | | | | 2080 | | 69.8 | 174 | 0.909 | | |
| C | 740 | | | | | | 25.5 | 142 | 0.814 | 2.8 | 0.25 |
| | | 900 | | | | | 30.9 | 142 | 0.837 | | |
| | | | 1190 | | | | 40.6 | 142 | 0.867 | | |
| | | | | 1470 | | | 50.1 | 141 | 0.886 | | |
| | | | | | 1630 | | 55.4 | 141 | 0.894 | | |
| D | | | | | | | 62.9 | 134 | 0.903 | 4 | 0.35 |
| | | 730 | | | | | 25 | 117 | 0.817 | | |
| | | | 970 | | | | 33 | 117 | 0.851 | | |
| | | | | 1210 | | | 41 | 117 | 0.873 | | |
| | | | | | 1340 | | 45.5 | 117 | 0.882 | | |
| E | | | | | | | 53.7 | 116 | 0.894 | 5.5 | 0.51 |
| | | | 800 | | | | 27.2 | 99.9 | 0.822 | | |
| | | | | 1000 | | | 34 | 99.8 | 0.849 | | |
| | | | | | 1120 | | 37.8 | 99.8 | 0.861 | | |
| | | | | | | 1350 | 44.9 | 98.5 | 0.876 | | |
| F | | | | | | | | | | 7.2 | 0.66 |
| | | | 680 | | | | 23.3 | 88 | 0.801 | | |
| | | | | 860 | | | 29.3 | 87.9 | 0.832 | | |
| | | | | | 960 | | 32.8 | 87.9 | 0.846 | | |
| | | | | | | 1170 | 39.6 | 87.8 | 0.866 | | |
| G | | | | | | | | | | 9 | 0.84 |
| | | | | 750 | | | 25.4 | 77.7 | 0.815 | | |
| | | | | | 840 | | 28.4 | 77.7 | 0.83 | | |
| | | | | | | 1020 | 34.5 | 77.7 | 0.852 | | |
| H | | | | | | | | | | 11.2 | 1.1 |
| | | | | 650 | | | 21.9 | 69.5 | 0.787 | | |
| | | | | | 730 | | 24.7 | 69.5 | 0.805 | | |
| I | | | | | | | | | | 13.5 | 1.4 |
| | | | | | | 900 | 30.1 | 69.5 | 0.831 | | |
| | | | | | | 790 | 26.7 | 63.8 | 0.807 | | |

| | VELOCITÀ [rpm] ALLE TENSIONI | | | | | | P [kw] | I [A] | η [%] | ARMATURA | |
|---|------------------------------|------|------|------|------|------|--------|-------|------------|----------|----------------------|
| | 220V | 260V | 330V | 400V | 440V | 520V | | | | L [mH] | R ₁₁₅ [Ω] |
| K | | | | | | | | | | 16.1 | 1.7 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | 710 | 23.7 | 57.7 | 0.79 | | |

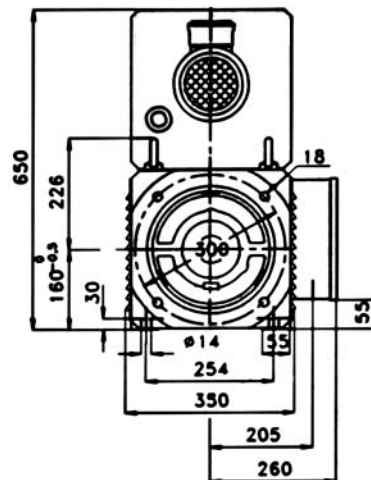
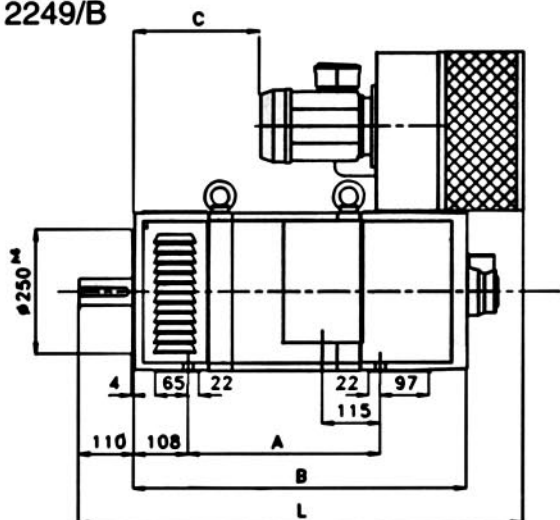
The data shown refer to motors:

- with assisted leaning ventilation PVA
- in continuous service CEI S1
- with form factor = 1
- with maximum room temperature 40 °C
- with maximum height above sea level 1000 m.

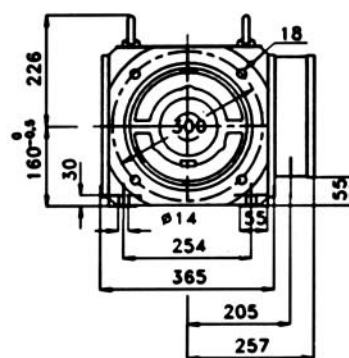
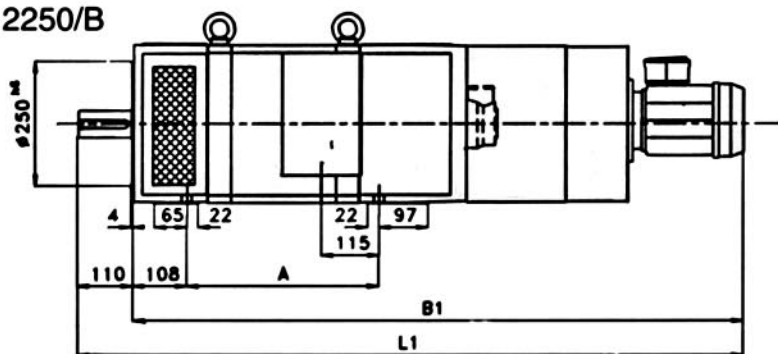
MM 160 P

| | VELOCITÀ [rpm] ALLE TENSIONI | | | | | | P [kw] | I [A] | η [%] | ARMATURA | |
|---|------------------------------|------|------|------|------|------|-----------|----------|---------------|----------|--------------------------------|
| | 220V | 260V | 330V | 400V | 440V | 520V | | | | L [mH] | R _{115°} [Ω] |
| A | 1090 | | | | | | 43 | 226 | 0.863 | 1.2 | 0.1 |
| | | 1320 | | | | | 51,8 | 226 | 0.883 | | |
| | | | 1710 | | | | 66,8 | 224 | 0.903 | | |
| | | | | 2100 | | | 81,3 | 222 | 0.915 | | |
| | | | | | 2330 | | 89,3 | 221 | 0.92 | | |
| | | | | | | | | | | | |
| B | 780 | | | | | | 31.5 | 173 | 0.828 | 2.2 | 0,18 |
| | | 950 | | | | | 38.3 | 173 | 0.853 | | |
| | | | 1250 | | | | 50 | 172 | 0.879 | | |
| | | | | 1540 | | | 61.5 | 171 | 0.895 | | |
| | | | | | 1710 | | 68 | 171 | 0.903 | | |
| | | | | | | 2040 | 74.5 | 157 | 0.910 | | |
| C | | 740 | | | | | 29.6 | 138 | 0.825 | 3.4 | 0.28 |
| | | | 970 | | | | 39 | 138 | 0.857 | | |
| | | | | 1210 | | | 48.4 | 138 | 0.878 | | |
| | | | | | 1340 | | 53.7 | 137 | 0.887 | | |
| | | | | | | 1610 | 61.2 | 131 | 0.896 | | |
| | | | | | | | | | | | |
| D | | | 790 | | | | 31.6 | 114 | 0.837 | 4.8 | 0.4 |
| | | | | 990 | | | 39.3 | 114 | 0.861 | | |
| | | | | | 1100 | | 43.8 | 114 | 0.872 | | |
| | | | | | | 1320 | 52.1 | 113 | 0.887 | | |
| | | | | | | | | | | | |
| E | | | 650 | | | | 25.8 | 97.1 | 0.805 | 6.6 | 0.58 |
| | | | | 820 | | | 32.5 | 97.1 | 0.835 | | |
| | | | | | 920 | | 36.3 | 97 | 0.848 | | |
| | | | | | | 1110 | 43.2 | 95.9 | 0.868 | | |
| | | | | | | | | | | | |
| F | | | | 700 | | | 28 | 85.5 | 0.817 | 8.6 | 0.75 |
| | | | | | 780 | | 31.3 | 85.5 | 0.831 | | |
| | | | | | | 950 | 38 | 85.4 | 0.854 | | |
| | | | | | | | | | | | |
| G | | | | | 680 | | 27.1 | 75.5 | 0.813 | 10.9 | 0.96 |
| | | | | | | 830 | 33 | 75.5 | 0.838 | | |
| | | | | | | | | | | | |
| H | | | | | | | | | | 13.5 | 1.2 |
| | | | | | | 730 | 28.9 | 67.6 | 0.822 | | |

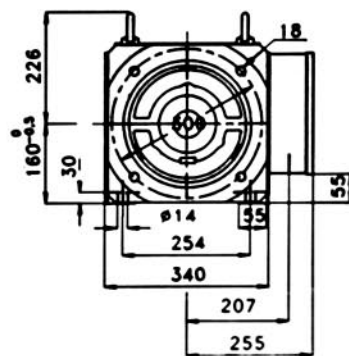
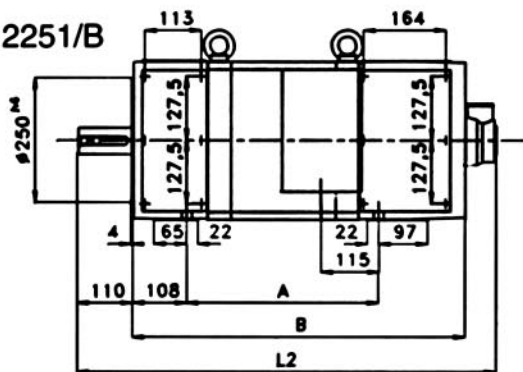
2249/B



2250/B



2251/B



| Tipo Type | Ingombri massimi / Max overall | | | | | | |
|--------------|--------------------------------|-----|------|-----|-----|------|-----|
| | A | B | B1 | C | L | L1 | L2 |
| S | 338 | 620 | 1181 | 195 | 800 | 1291 | 810 |
| M | 383 | 665 | 1226 | 240 | 845 | 1336 | 855 |
| L | 438 | 720 | 1281 | 295 | 900 | 1391 | 910 |
| P | 493 | 775 | 1336 | 350 | 955 | 1446 | 965 |



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