

**Caratteristiche elettriche**

**Electric characteristics**

| Conn | Vn  | Freq. | Pn   | speed | cosfi | In   |
|------|-----|-------|------|-------|-------|------|
|      | [V] | [Hz]  | [kW] | [rpm] |       | [A]  |
| Δ    | 230 | 50    | 0,75 | 1440  | 0,78  | 2,89 |
| Y    | 400 | 50    | 0,75 | 1440  | 0,78  | 1,67 |
| Δ    | 265 | 60    | 0,75 | 1750  | 0,74  | 2,58 |
| Y    | 460 | 60    | 0,75 | 1750  | 0,74  | 1,49 |

| Mn   | η    | Ms/Mn | Is/In | Mmax/Mn |
|------|------|-------|-------|---------|
| [Nm] | [%]  |       |       |         |
| 5,0  | 82,9 | 3,2   | 6,1   | 3,5     |

**Caratteristiche meccaniche**

**Mechanical characteristics**

Degree of Protection  
Types of construction  
Cooling  
Insulation class  
DE bearing 6204-2Z  
NDE bearing 6204-2Z

**Prova a vuoto / No load test**

| Conn | Freq. | Vn  | Io   | Pin   | cosfi |
|------|-------|-----|------|-------|-------|
|      | [Hz]  | [V] | [A]  | [kW]  |       |
| Y    | 50    | 380 | 0,92 | 0,068 | 0,11  |
| Y    | 50    | 400 | 0,99 | 0,076 | 0,11  |
| Y    | 50    | 420 | 1,07 | 0,083 | 0,11  |
| Y    | 60    | 440 | 0,88 | 0,076 | 0,11  |
| Y    | 60    | 460 | 0,93 | 0,082 | 0,11  |
| Y    | 60    | 480 | 1,00 | 0,090 | 0,11  |

**Prova a carico / Load test**

| Conn     | Load       | speed       | Freq      | Vin        | Iin         | Mn          | Pin          | Pout        | η           | cosfi       | Slip       |
|----------|------------|-------------|-----------|------------|-------------|-------------|--------------|-------------|-------------|-------------|------------|
|          |            | [rpm]       | [Hz]      | [V]        | [A]         | [Nm]        | [kW]         | [kW]        | [%]         |             | [%]        |
| Y        | 4/4        | 1428        | 50        | 380        | 1,70        | 5,02        | 0,908        | 0,75        | 82,6        | 0,81        | 4,8        |
| <b>Y</b> | <b>4/4</b> | <b>1437</b> | <b>50</b> | <b>400</b> | <b>1,67</b> | <b>5,00</b> | <b>0,905</b> | <b>0,75</b> | <b>82,9</b> | <b>0,78</b> | <b>4,2</b> |
| Y        | 4/4        | 1443        | 50        | 420        | 1,65        | 4,98        | 0,905        | 0,75        | 82,9        | 0,76        | 3,8        |
| Y        | 5/4        | 1418        | 50        | 400        | 1,99        | 6,34        | 1,152        | 0,94        | 81,6        | 0,84        | 5,5        |
| Y        | 3/4        | 1455        | 50        | 400        | 1,39        | 3,68        | 0,680        | 0,56        | 82,3        | 0,70        | 3,0        |
| Y        | 4/4        | 1747        | 60        | 440        | 1,50        | 4,10        | 0,884        | 0,75        | 84,8        | 0,78        | 2,9        |
| <b>Y</b> | <b>4/4</b> | <b>1753</b> | <b>60</b> | <b>460</b> | <b>1,48</b> | <b>4,09</b> | <b>0,877</b> | <b>0,75</b> | <b>85,5</b> | <b>0,75</b> | <b>2,6</b> |
| Y        | 4/4        | 1758        | 60        | 480        | 1,48        | 4,08        | 0,881        | 0,75        | 85,1        | 0,73        | 2,3        |
| Y        | 5/4        | 1737        | 60        | 460        | 1,74        | 5,15        | 1,120        | 0,94        | 83,9        | 0,81        | 3,5        |
| Y        | 3/4        | 1767        | 60        | 460        | 1,27        | 3,02        | 0,680        | 0,56        | 82,4        | 0,67        | 1,8        |

**Prova di riscaldamento / Temperature rise test**

|       | Time  | Conn | Freq | Vin | Iin  | Pout | Resist. | Terminals | dT1 | T hous. | Tamb |
|-------|-------|------|------|-----|------|------|---------|-----------|-----|---------|------|
|       | [h]   |      | [Hz] | [V] | [A]  | [kW] | [Ω]     |           | [K] | [°C]    | [°C] |
| Start | 00:00 | Y    | 50   | 400 |      |      | 14,55   | U1-V1     |     | 22,7    | 22,7 |
| End   | 03:00 | Y    | 50   | 400 | 1,67 | 0,75 | 16,19   | U1-V1     | 28  | 38,5    | 23,6 |

**Prova di spunto a caldo / Starting test**

| Conn. | Vn  | Freq. | Is   | Is/In | Ms   | Ms/Mn |
|-------|-----|-------|------|-------|------|-------|
|       | [V] | [Hz]  | [A]  |       | [Nm] |       |
| Y     | 400 | 50    | 10,2 | 6,0   | 15,8 | 3,2   |
| Y     | 460 | 60    | 10,8 | 7,2   | 15,5 | 3,8   |

**Prova a rotore bloccato / Locked rotor test**

| Conn. | Vn  | Freq. | Is   | Ms   | Pin  | cosfi |
|-------|-----|-------|------|------|------|-------|
|       | [V] | [Hz]  | [A]  | [Nm] | [kW] |       |
| Y     | 400 | 50    | 10,2 | 15,8 | 4,10 | 0,78  |
| Y     | 460 | 60    | 10,8 | 15,5 | 5,41 | 0,75  |

**Resistenza d'isolamento / Insulation resistance**

| V   | Resist. | Tamb |
|-----|---------|------|
| [V] | [MΩ]    | [°C] |
| 500 | >100    | 20   |

**Rigidità dielettrica / High voltage test**

|                | U    | time |
|----------------|------|------|
|                | V    | sec  |
| phase - ground | 1800 | 60   |
| phase - phase  | 1500 | 3    |

Manufactured and tested in accordance with rules of IEC 34-1