

Selection and Ordering Data

3000 rev/min. 2-Pole. 50Hz. Degree of Protection IP55, Class F Insulation

| Rated Output | | Frame Size | Order No. (for Order No. suffixes for voltage and type of construction, see table below) | Operating characteristics at rated output | | | | | Locked rotor current | Locked rotor torque | Break-down torque | Rotor Class | GD ² of rotor | Weight approx. |
|--------------|-----|------------|--|---|------------|--------------|-------------|--------------|----------------------|---------------------|-------------------|-------------|--------------------------|----------------|
| | | | | Rated Current at 415V | Efficiency | Power Factor | Rated Speed | Rated Torque | | | | | | |
| kW | hp | | | A | % | | rev/min | kgfm | current | torque | torque | KL | kgfm ² | kg |
| 11 | 15 | 160M | 1LAO 163-2YC.. | 21 | 86 | 0.88 | 2900 | 3.7 | 6.0 | 1.8 | 2.5 | 10 | 0.20 | 130 |
| 15 | 20 | 160M | 1LAO 164-2YC.. | 28 | 86.5 | 0.88 | 2900 | 5.0 | 6.0 | 1.8 | 2.5 | 10 | 0.22 | 135 |
| 18.5 | 25 | 160L | 1LAO 166-2YC.. | 33 | 88.5 | 0.88 | 2910 | 6.2 | 6.0 | 2.1 | 2.5 | 10 | 0.26 | 145 |
| 22 | 30 | 180M | 1LAO 183-2YA.. | 38 | 91.5 | 0.87 | 2940 | 7.3 | 6.5 | 2.4 | 3.0 | 16 | 0.31 | 165 |
| 30 | 40 | 200L | 1LAO 206-2YB.. | 52 | 91.5 | 0.88 | 2940 | 9.9 | 6.0 | 2.1 | 2.7 | 13 | 0.56 | 230 |
| 37 | 50 | 200L | 1LAO 207-2YB.. | 63 | 92.5 | 0.88 | 2945 | 12.2 | 6.0 | 2.1 | 2.7 | 13 | 0.64 | 250 |
| 45 | 60 | 225M | 1LAO 223-2YB.. | 77 | 93 | 0.88 | 2955 | 14.8 | 6.0 | 2.1 | 2.7 | 13 | 0.96 | 310 |
| 55 | 75 | 250M | 1LAO 253-2YB.. | 92 | 93 | 0.89 | 2965 | 18.1 | 7.0 | 2.1 | 2.7 | 13 | 1.8 | 415 |
| 75 | 100 | 280S | 1LAO 280-2YC.. | 126 | 94 | 0.88 | 2970 | 24.6 | 7.0 | 1.9 | 2.7 | 10 | 3.16 | 570 |
| 90 | 120 | 280M | 1LAO 283-2YC.. | 150 | 94 | 0.89 | 2970 | 29.5 | 7.0 | 1.9 | 2.7 | 10 | 3.68 | 610 |
| 110 | 150 | 315S | 1LAO 310-2YC.. | 183 | 94 | 0.89 | 2980 | 36.0 | 7.0 | 1.8 | 2.7 | 10 | 5.2 | 790 |
| 132 | 180 | 315M | 1LAO 313-2YC.. | 218 | 94.5 | 0.89 | 2980 | 43.1 | 7.0 | 1.8 | 2.7 | 10 | 6.0 | 850 |
| 160 | 215 | 315L | 1LAO 316-2YC.. | 260 | 95 | 0.90 | 2980 | 52.3 | 7.0 | 1.8 | 2.7 | 10 | 7.2 | 990 |
| 200 | 270 | 315L | #1LAO 317-2YC.. | 320 | 95.5 | 0.90 | 2980 | 65.4 | 7.0 | 1.8 | 2.7 | 10 | 9.2 | 1100 |
| 250 | 335 | 355L | 1LAO 356-2YC.. | 398 | 96 | 0.91 | 2982 | 81.7 | 7.0 | 1.6 | 2.8 | 10 | 13.2 | 1470 |
| 315 | 425 | 355L | 1LAO 357-2YC.. | 502 | 96 | 0.91 | 2982 | 102.9 | 7.0 | 1.6 | 2.8 | 10 | 16.0 | 1650 |

1500 rev/min. 4-Pole. 50Hz. Degree of Protection IP55, Class F Insulation

| Rated Output | | Frame Size | Order No. (for Order No. suffixes for voltage and type of construction, see table below) | Operating characteristics at rated output | | | | | Locked rotor current | Locked rotor torque | Break-down torque | Rotor Class | GD ² of rotor | Weight approx. |
|--------------|-----|------------|--|---|------------|--------------|-------------|--------------|----------------------|---------------------|-------------------|-------------|--------------------------|----------------|
| | | | | Rated Current at 415V | Efficiency | Power Factor | Rated Speed | Rated Torque | | | | | | |
| kW | hp | | | A | % | | rev/min | kgfm | current | torque | torque | KL | kgfm ² | kg |
| 11 | 15 | 160M | 1LAO 163-24YA.. | 21 | 88.5 | 0.83 | 1445 | 7.4 | 6.0 | 2.4 | 2.3 | 16 | 0.22 | 130 |
| 15 | 20 | 160L | 1LAO 166-4YA.. | 28 | 89 | 0.84 | 1445 | 10.1 | 6.0 | 2.4 | 2.3 | 16 | 0.26 | 140 |
| 18.5 | 25 | 180M | 1LAO 183-4YA.. | 34 | 90.5 | 0.83 | 1460 | 12.3 | 6.0 | 2.5 | 2.5 | 16 | 0.52 | 165 |
| 22 | 30 | 180L | 1LAO 186-4YA.. | 40 | 91 | 0.84 | 1460 | 14.7 | 6.0 | 2.5 | 2.5 | 16 | 0.6 | 180 |
| 30 | 40 | 200L | 1LAO 207-4YA.. | 53 | 92 | 0.85 | 1465 | 19.9 | 6.0 | 2.5 | 2.5 | 16 | 0.96 | 240 |
| 37 | 50 | 225S | 1LAO 220-4YA.. | 65 | 92.5 | 0.86 | 1475 | 24.4 | 6.0 | 2.5 | 2.5 | 16 | 1.91 | 310 |
| 45 | 60 | 225M | 1LAO 223-4YA.. | 78 | 93 | 0.86 | 1475 | 29.7 | 6.0 | 2.5 | 2.5 | 16 | 2.16 | 335 |
| 55 | 75 | 250M | 1LAO 253-4YA.. | 96 | 93.5 | 0.85 | 1475 | 36.3 | 6.0 | 2.5 | 2.5 | 16 | 3.2 | 435 |
| 75 | 100 | 280S | 1LAO 280-4YA.. | 131 | 94 | 0.85 | 1480 | 49.4 | 6.0 | 2.5 | 2.5 | 16 | 5.6 | 610 |
| 90 | 120 | 280M | 1LAO 283-4YA.. | 156 | 94.5 | 0.85 | 1480 | 59.2 | 6.0 | 2.5 | 2.5 | 16 | 6.4 | 660 |
| 110 | 150 | 315S | 1LAO 310-4YA.. | 191 | 94.5 | 0.85 | 1485 | 72.1 | 6.0 | 2.5 | 2.5 | 16 | 8.8 | 830 |
| 132 | 180 | 315M | 1LAO 313-4YA.. | 227 | 95 | 0.85 | 1485 | 86.6 | 6.0 | 2.5 | 2.5 | 16 | 10.8 | 910 |
| 160 | 215 | 315L | 1LAO 316-4YA.. | 271 | 95.5 | 0.86 | 1485 | 104.9 | 6.0 | 2.5 | 2.5 | 16 | 12.8 | 1060 |
| 200 | 270 | 315L | #1LAO 317-4YA.. | 339 | 95.5 | 0.86 | 1485 | 131.2 | 6.0 | 2.5 | 2.5 | 16 | 16.8 | 1200 |
| 250 | 335 | 355L | 1LAO 356-4YB.. | 421 | 96 | 0.86 | 1488 | 163.6 | 6.5 | 2.1 | 2.5 | 13 | 24.0 | 1590 |
| 315 | 425 | 355L | 1LAO 357-4YB.. | 531 | 96 | 0.86 | 1488 | 206.2 | 6.5 | 2.1 | 2.5 | 13 | 29.6 | 1790 |

TEMPERATURE RISE LIMITED TO CLASS B FOR ALL MOTORS EXCEPT THOSE MARKED #

(Values subject to tolerance as per IS : 325)

Order No. Suffixes

| Motor type | Last place but one : Figure denoting voltage | | Last place : Figure denoting type of construction | | | | |
|-----------------|--|---|---|---------------------|----------------------|-------------------|---------|
| | 415Y.50Hz Standard V & f variation | *Other voltage and/or frequency (& voltage & frequency variation) | IM B3 | At additional price | | | |
| | | | | IM B5 | IMV 1 without canopy | IMV 1 with canopy | IM B 35 |
| 1Lao 163 to 313 | 7 | 9 | 0 | 1 | 1 | 4 | 6 |
| 1Lao 316 to 357 | 7 | 9 | 0 | ---- | 8 | 4 | 6 |

*Details of voltage / connection / frequency / voltage & frequency variation should be additionally given in plain text.

