



SPECIFICATION

| Model | | 42RBL30 | 42RBL60 | 42RBL85 | |
|-------|-------------------------|-------------------|---------|---------|-------|
| 1 | N° OF POLE | 8 | 8 | 8 | |
| 2 | N° OF PHASE | 3 | 3 | 3 | |
| 3 | RATED VOLTAGE | V | 24 | 24 | |
| 4 | RATED SPEED | rpm | 4000 | 4000 | |
| 5 | RATED TORQUE | Nm | 0,02 | 0,06 | 0,15 |
| 6 | MAX PEAK TORQUE | Nm | 0,06 | 0,18 | 0,45 |
| 7 | TORQUE CONSTANT | Nm/A | 0,039 | 0,038 | 0,036 |
| 8 | LINE TO LINE RESISTANCE | Ω | 5,9 | 1,6 | 0,71 |
| 9 | LINE TO LINE INDUCTANCE | mH | 5,1 | 1,94 | 0,86 |
| 10 | MAX PEAK CURRENT | A | 1,7 | 4,4 | 11,4 |
| 11 | RATED CURRENT | A | 0,51 | 1,58 | 4,17 |
| 12 | NO-LOAD CURRENT | mA | 160 | 230 | 280 |
| 13 | LENGTH | mm | 30 | 60 | 85 |
| 14 | ROTOR INERTIA | g-cm ² | 15,6 | 33 | 84 |
| 15 | WEIGHT | Kg | 0,25 | 0,4 | 0,7 |



CONNECTION

| Lead N° | Color | Gauge | Function |
|---------|--------|--------------|-------------------------------|
| 1 | YELLOW | UL1430 AWG26 | VCC HALL SENSOR +5 TO +24 VDC |
| 2 | BLUE | UL1430 AWG26 | HALL A |
| 3 | ORANGE | UL1430 AWG26 | HALL B |
| 4 | BROWN | UL1430 AWG26 | HALL C |
| 5 | WHITE | UL1430 AWG26 | HALL SENSOR GROUND |
| 6 | GREEN | UL1430 AWG22 | PHASE U |
| 7 | RED | UL1430 AWG22 | PHASE V |
| 8 | BLACK | UL1430 AWG22 | PHASE W |

CHARACTERISTICS

| Item | |
|--|------------------------|
| HALL EFFECT ANGLE | 120° |
| SHAFT RUN OUT | 0,025 mm |
| INSULATION CLASS | B |
| RADIAL PLAY (450 g LOAD) | 0,02 mm |
| AXIAL PLAY (450 g LOAD) | 0,08 mm |
| MAX RADIAL FORCE (10 mm FROM FRONT FLANGE) | 15N |
| MAX AXIAL FORCE | 10N |
| DIELECTRIC STRENGTH | 500 VDC FOR ONE MINUTE |
| INSULATION RESISTANCE | 100 Mohm min. 500 VDC |