

110 SERIES BLDC Motor



GENERAL SPECIFICATION

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| Winding type: Star |
| Hall effect angle: 120 degree electrical angle |
| Shaft run out: 0.025mm |
| Insulation Class: Class B |
| Dielectric strength: 500VDC for one minute |
| Ambient temperature: -20—+40 °C |

WIRE DIAGRAM

| Lead No. | Lead Color | Lead Gauge | Function |
|----------|------------|--------------|----------|
| 1 | RED | 14AWG UL1015 | Phase U |
| 2 | YEL | | Phase V |
| 3 | BLA | | Phase W |
| 4 | RED | 26AWG UL1569 | +5V |
| 5 | BLU | | Hall A |
| 5 | GRE | | Hall B |
| 7 | WHI | | Hall C |
| 8 | BLA | | GND |

ELECTRICAL SPECIFICATION

| Model | | 110DMW93-31025 | 110DMW123-31025 | 110DMW153-31024 | 110DMW183-31025 |
|-----------------|------|----------------|-----------------|-----------------|-----------------|
| Voltage | V | 310 | | | |
| Number of poles | | 8 | | | |
| Rated power | W | 440 | 900 | 1300 | 1700 |
| No load speed | rpm | 2900 | 2900 | 2800 | 2900 |
| Rated torque | Nm | 1.65 | 3.30 | 5 | 6.6 |
| Rated Speed | rpm | 2550 | 2550 | 2400 | 2550 |
| Rated Current | A | 2 | 3.5 | 5.1 | 6.7 |
| Torque(max) | Nm | 6 | 12 | 18 | 23 |
| Torque Constant | Nm/A | 1.11 | 1.11 | 1.11 | 1.11 |
| Resistance | ohm | 5 | 2.46 | 1.7 | 1.3 |
| Weight | Kg | 4.2 | 5.5 | 6.8 | 8.1 |
| Length | mm | 93 | 123 | 153 | 183 |

DIMENSIONS

