

# 28 SERIES BLDC Motor



## GENERAL SPECIFICATION

|  |
|--|
| 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        | 20AWG UL1569 | 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           |     | 28DMW38-2450 | 28DMW43-2450 | 28DMW48-2450 |
|-----------------|-----|--------------|--------------|--------------|
| Voltage         | V   | 24           |              |              |
| Number of poles |     | 4            |              |              |
| Rated power     | W   | 6            | 8            | 10           |
| No load speed   | rpm | 6000         | 6000         | 6000         |
| Rated torque    | Nm  | 0.01         | 0.015        | 0.02         |
| Rated Speed     | rpm | 5000         | 5000         | 5000         |
| Rated Current   | A   | 0.5          | 0.8          | 1            |
| Peak Torque     | Nm  | 0.003        | 0.045        | 0.06         |
| Weight          | Kg  | 0.08         | 0.1          | 0.14         |
| Length          | mm  | 38           | 43           | 48           |

## DIMENSIONS

