

### SERVO MOTOR 115UDC300BACAA115240-JSAA

#### 115UDC300BACAA115240-JSAA

HIGH INERTIA MOTOR, 115 PCD MOUNTING HOLES, Ø24 x 50mm OUTPUT SHAFT



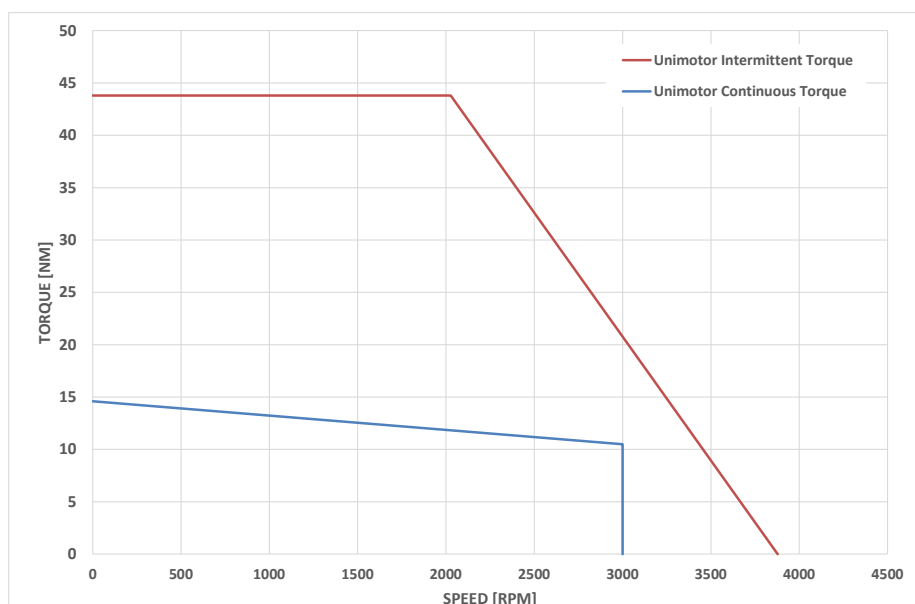
#### Definition

|                            |                      |                                         |
|----------------------------|----------------------|-----------------------------------------|
| Type                       | Unimotor HD          |                                         |
| Frame Size (mm)            | 115                  |                                         |
| Voltage                    | U                    | 400 V                                   |
| Magnet type                | D                    | High Dynamic                            |
| Frame Length               | C                    |                                         |
| Speed (min <sup>-1</sup> ) | 30                   | 3000                                    |
| Brake                      | 0                    | Unbraked                                |
| Connection type            | B                    | Power and Signal 90° rotatable (Size 1) |
| Output shaft               | A                    | With output key                         |
| Feedback device code       | CA                   | 4096 ppr Incremental encoder (CFS50)    |
| Inertia & thermistor       | A-JSAA               | High inertia + PTC thermistor           |
| PCD                        | 115                  | 115 (FF 115 / 95)                       |
| Shaft Diameter             | 240                  | 24j6 x 50.0                             |
| Fan Box                    | -                    |                                         |
| Insulation class           | F                    |                                         |
| UL Motor / UL Stator       | UL Motor / UL Stator |                                         |

#### Nominal characteristics

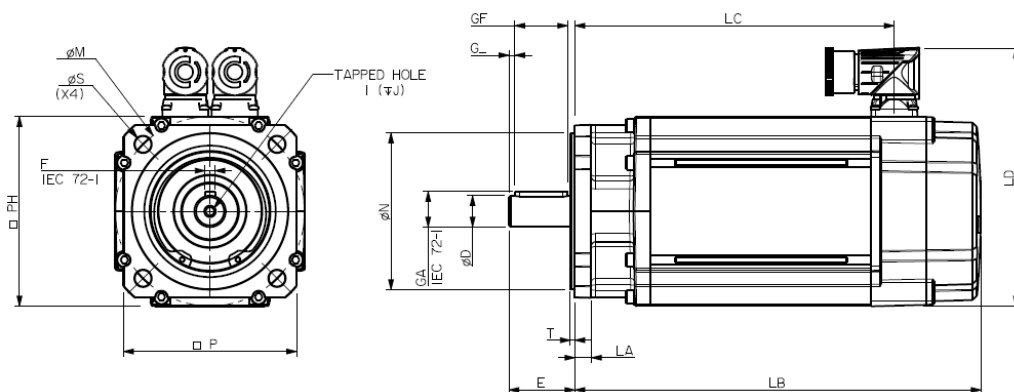
|                                   |      |                            |       |
|-----------------------------------|------|----------------------------|-------|
| Motor Ambient Temperature (°C)    | 40   | Drive Fsw (kHz)            | 12    |
| Motor Stall Torque (N.m)          | 14.6 | Stall Current (A)          | 9     |
| Rated Torque (N.m)                | 10.5 | Nominal Current (A)        | 6.56  |
| Motor Peak Torque (N.m)           | 43.8 | Kt (Nm/A)                  | 1.6   |
| Rated Power (kW)                  | 3.3  | Ke (V/kmin <sup>-1</sup> ) | 98.0  |
| Winding Thermal Time Constant (s) | 168  | R (ph-ph) (Ohm)            | 1.2   |
| Number of Poles                   | 10   | L (ph-ph) (mH)             | 12.7  |
| Typical Cogging (N.m)             | 0.22 |                            |       |
| Inertia (kg.cm <sup>2</sup> )     | 13.7 | Weight (kg)                | 10.45 |
| Ingress Protection Level (IP)     | IP65 |                            |       |

#### Torque / speed graph



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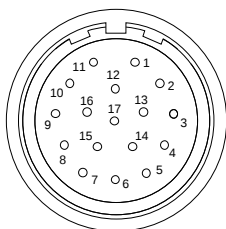
#### Motors (° & mm)



|    |                          |           |
|----|--------------------------|-----------|
| LB | Total length             | 299.5     |
| LC | Connector position       | 246.7     |
| LA | Flange thickness         | 10.1      |
| T  | Register Length          | 2.8       |
| N  | Register Diameter        | 95.0      |
| LD | Connector overall height | 156.5     |
| P  | Flange Square            | 105.0     |
| S  | Fixing Hole Diameter     | 10.0      |
| M  | Fixing hole PCD          | 115.0     |
| PH | Motor Housing Width      | 115.0     |
| D  | Shaft Diameter           | 24j6      |
| E  | Shaft Length             | 50.0      |
| GA | Key Height               | 27.0      |
| GF | Key Length               | 40.0      |
| G  | Key to Shaft End         | 3.6       |
| F  | Key Width                | 8.0       |
| I  | Tapped Hole Thread Size  | M8 x 1.25 |
| J  | Tapped Hole Depth        | 20.0      |
|    | Mounting Bolt            | M8        |

#### Motor electrical interface Connectors option:

##### Feedback device code: CA - 4096 ppr Incremental encoder (CFS50)



- |                  |            |
|------------------|------------|
| 1 - Thermistor - | 10 - A     |
| 2 - Thermistor + | 11 - Z     |
| 3 -              | 12 - Z/    |
| 4 - U            | 13 - A/    |
| 5 - U/           | 14 - B     |
| 6 - V            | 15 - B/    |
| 7 - V/           | 16 - Power |
| 8 - W            | 17 - 0 V   |
| 9 - W/           | Screen     |

##### Connection type: B - Power and Signal 90° rotatable (Size 1)

