

### SERVO MOTOR 075U3B306BAECA075140



#### Definition

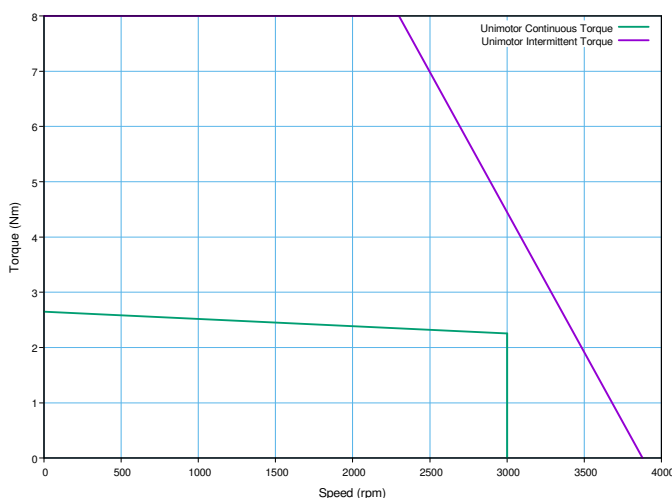
|                      |                             |   |
|----------------------|-----------------------------|---|
| Type                 | <b>Unimotor FM</b>          |   |
| Frame Size (mm)      | <b>075</b>                  |   |
| Voltage              | <b>U</b>                    | U - 400V  |
| Magnet type          | <b>3</b>                    | 3 - Standard                                      |
| Frame Length         | <b>B</b>                    |   |
| Speed (min-1)        | <b>30</b>                   | 3000  |
| Brake                | <b>6</b>                    | Braked (6)  |
| Connection type      | <b>B</b>                    | B - Power and Signal 90° rotatable                |
| Output shaft         | <b>A</b>                    | Key   |
| Feedback device code | <b>EC</b>                   | EC - Inductive EnDat SinCos Multi-Turn (EQI 1331) |
| Inertia & thermistor | <b>A</b>                    | A - Standard                                      |
| PCD                  | <b>075</b>                  | 075 (FF 75 / 60)                                  |
| Shaft Diameter       | <b>140</b>                  | 14j6 x 30,0 .                                     |
| Fan box              | -                           |   |
| Classe d'isolation   | <b>F</b>                    |   |
| UL Motor / UL Stator | <b>UL Motor / UL Stator</b> |   |

#### Nominal characteristics

|                                   |      |                                      |       |
|-----------------------------------|------|--------------------------------------|-------|
| Motor Ambient Temperature (°C)    | 40   | Drive Fsw (kHz)                      | 12    |
| Motor Stall Torque (N.m)          | 2,70 | Stall Current (A)                    | 1,70  |
| Rated Torque (N.m)                | 2,30 | Rated Current (A)                    | 1,4   |
| Motor Peak Torque (N.m)           | 8,00 | Peak Current for Drive Selection (A) | 5,00  |
| Rated Power (kW)                  | 0,72 | Kt (Nm/A)                            | 1,60  |
| Winding Thermal Time Constant (s) | 58   | Ke (V/kmin-1)                        | 98,00 |
| Number of Poles                   | 6    | R (ph-ph) (Ohm)                      | 21,07 |
| Maximum Cogging (N.m)             | 0.08 | L (ph-ph) (mH)                       | 52,65 |
| Inertia (kg.cm²)                  | 1,27 | Peso del prodotto                    | 4,80  |
| Ingress Protection Level (IP)     | IP65 |                                      |       |

|                          |                   |                      |      |
|--------------------------|-------------------|----------------------|------|
| Brake                    | <b>Braked (6)</b> | Static Torque (N.m)  | 2,0  |
| Release Time (ms)        | 64                | Backlash (°)         | 0,75 |
| Brake Supply Voltage (V) | 24                | Brake Coil Power (W) | 11,6 |

#### Torque / speed graph



#### Configured characteristics

|   |      |
|---|------|
| Motor Ambient Temperature (°C)          | 40   |
| Drive Fsw (kHz)                         | 8    |
| Derating Factor                         | 0,98 |
| Stall Torque with Derating Factor (N.m) | 2,65 |
| Nominal Torque after Derating (N.m)     | 2,25 |
| Peak Torque with Derating Factor (N.m)  | 8,00 |

