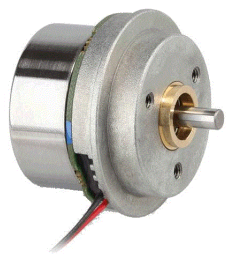


Brushless Motor  
EC32FLAT 1Q sans capot



The advantages :  
Industrial servo control motor - Integral 1-  
quadrant speed regulator electronics - high  
overload capacity - Flat format suited to  
limited spaces.

Associated products :

- > Power supply

  - DR-120-24
  - DR-30-12 / 24
  - DR-60-24
  - DRP-240-24
  - DRP-480S-24
  - RS-100-24
  - RS-150-24
  - RS-75-24
  - SP-320-24
- > Controller

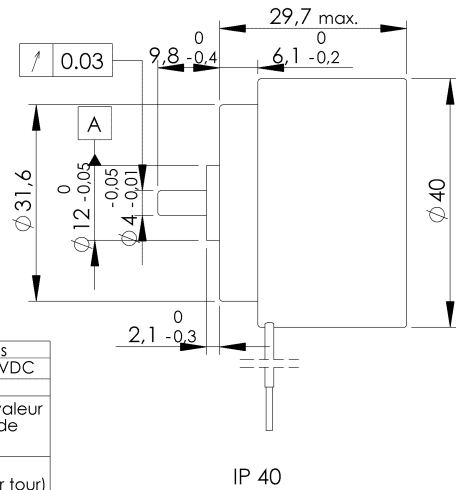
  - ESCON 50/5
  - ESCON 70/10

maxon motor

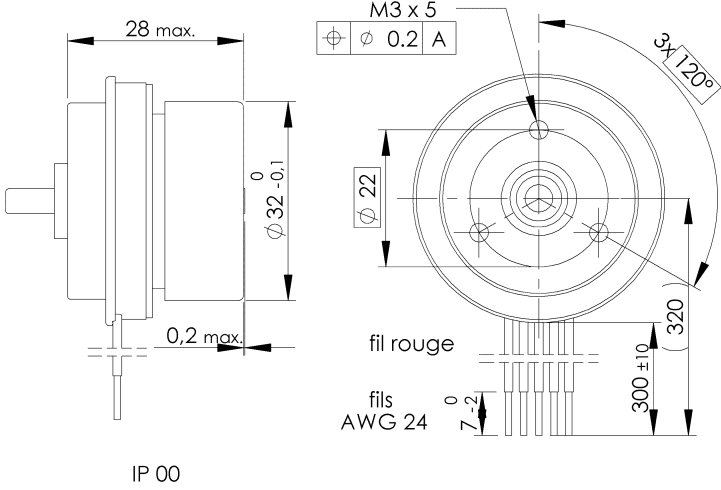
15 W - 25 W

|                                    |                  |       |
|------------------------------------|------------------|-------|
| Power supply voltage (Ua)          | V                | 24    |
| Speed at current In                | tr/mn            | 6000  |
| Torque at current In               | mNm              | 24    |
| Maximum permanent current In       | mA               | 742   |
| Ua no-load speed +/- 10%           | tr/mn            | 6000  |
| No-load current +/- 50%            | mA               | 68    |
| Ua stall current                   | mA               | 1400  |
| Ua stall torque                    | mNm              | 33.7  |
| Torque constant                    | mNm/A            | 49    |
| Speed constant                     | tr/mn/V          | 195   |
| Speed/torque gradient              | tr/mn/mN         | 54.5  |
| Limit speed                        | tr/mn            | 10000 |
| Maximum Ua operating power         | W                | 5.3   |
| Maximum efficiency                 | %                | 64    |
| Electromechanical time constant    | ms               | 20    |
| Inertia                            | gcm <sup>2</sup> | 35    |
| Terminal resistance phase to phase | Ohm              | 13.7  |
| Inductance                         | mH               | 7.73  |
| Ambient/Housing thermal            | K/W              | 7.6   |
| Coil/Housing thermal resistance    | K/W              | 5.9   |
| Coil thermal time constant         | s                | 8.69  |
| Housing thermal time constant      | s                | 61    |
| Test voltage                       | V                | 24    |
| Rotor temperature                  | °C               | +125  |
| Ambient temperature                | °C               | 25    |
| Nominal operating power output     | W                | 15.1  |
| Max permanent operating power      | W                | 25.1  |

|                                       |                       |
|---------------------------------------|-----------------------|
| Commutation                           | Electronique intégré  |
| Number of phases                      | 3                     |
| Bearings                              | Roulements préchargés |
| Magnets                               | Néodyme Fer bore      |
| Maximum axial load (dynamic)          | 6.8 N                 |
| Minimum axial play                    | 0 mm                  |
| Maximum axial play                    | 0.14 mm               |
| Maximum radial load                   | 32 N                  |
| at a distance from the face of:       | 7.5 mm                |
| Radial play                           | preloaded mm          |
| Maximum slip force (static)           | 70 N                  |
| If fixed rear axis                    | 1000 N                |
| Minimum ambient operating temperature | -40 °C                |
| Maximum ambient operating temperature | +85 °C                |
| Maximum coil temperature              | +125 °C               |
| Weight                                | 91 g                  |
| Type of sealing                       | IP00                  |



|                   |                                            |
|-------------------|--------------------------------------------|
| Connection 5 fils |                                            |
| rouge             | +Vcc 10 ...28 VDC                          |
| noir              | GND                                        |
| blanc             | Entrée de la valeur de consigne de vitesse |
| vert              | Monitor n (6 impulsions par tour)          |
| gris              | Enable et Direction                        |



Edition:Juli 2022 / subject to modification

Version of06/07/2022