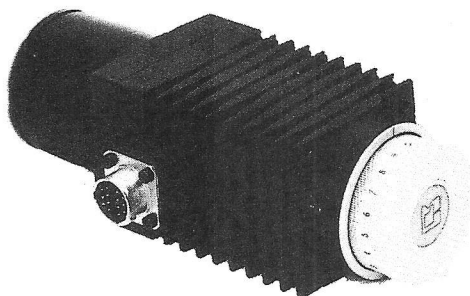


## UE72 CC DC gearhead motors



The UE72 CC is a DC driven gear head motor. UE72 CC units can be equipped with a 3 to 1 or 5 to 1 reduction gear box. Three models are available, all with compatible optional encoders and/or tachometers.

### Characteristics

- Power rating: 55 W
- Nominal Voltage: 24 V
- No load speed: 4000 RPM
- Rated speed: 2700 RPM
- Peak torque: 9600 g/cm
- Rated torque: 2000 g/cm
- Back EMF: 6 V/1000 RPM
- Torque constant: 480 gcm/A
- Inductance: 1.2 mH
- Terminal Resistance: 1.2  $\Omega$
- Ripple frequency: 12 cycles/rev.
- Inertia: 440 g/cm<sup>2</sup>
- Friction: 250 g/cm
- Thermal coefficient: 3.9°C/W
- Weight: 900 g

|         | Gear                 |                     |                                         | Cat. No.       |
|---------|----------------------|---------------------|-----------------------------------------|----------------|
|         | Gear reduction ratio | Gear box efficiency | Torque limit of reduction gear box (Nm) |                |
| UE72 CC | 1                    | 100%                | -                                       | <b>385 780</b> |
| UE72 CC | 3 to 1               | 85%                 | 3                                       | <b>385 786</b> |
| UE72 CC | 5 to 1               | 85%                 | 3                                       | <b>385 787</b> |

### Options

#### Shaft encoder

- The optional encoder is the same as that for UE7\_\_PP.
  - 2000 - 6000 - 10,000 points per revolution are available depending on the UE72 CC gear box.
- (Encoder 2000 points/revolution without gearing)

**Cat. No. 385 923**

#### Tachometer

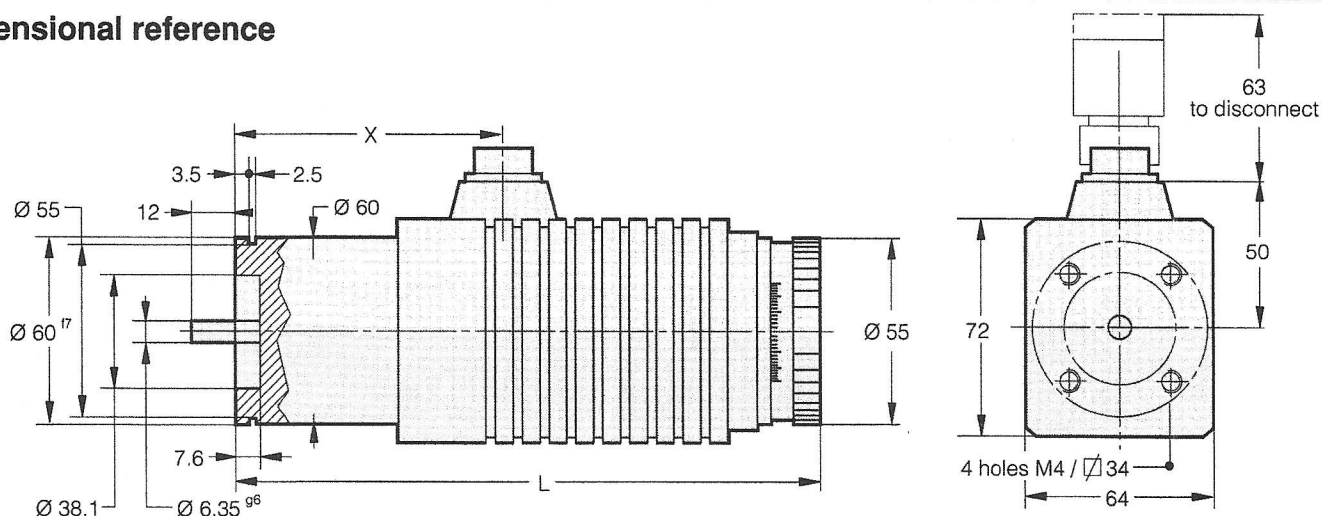
- The optional tachometer is compatible with the UE72 CC. It is recommended for high resolution and stable speed applications.

### Characteristics

- EMF constant
- (mV/rad. sec<sup>-1</sup>): 4.11  $\pm$  1%
- Maximum rotation speed (RPM): 5000
- Average ripple (peak to peak): 3%
- EMF temperature coef.: 0.02% / °C
- Armature temp. coef.: 0.4% / °C
- Load resistance: 25 k $\Omega$
- Armature resistance: 260 k $\Omega$
- Ripple frequency (per revolution): 10
- Linearity, unloaded: 0.2%

**Cat. No. 385 915**

### dimensional reference



|         | Without gear |      | With gear |    |
|---------|--------------|------|-----------|----|
|         | L            | x    | L         | x  |
| UE71 PP | 124          | 37.5 | 187       | 92 |
| UE72 PP | 150          | 63   | 212       | 92 |
| UE73 PP | 175          | 88   | 237       | 92 |

|              | Without gear |    | With gear |    |
|--------------|--------------|----|-----------|----|
|              | L            | x  | L         | x  |
| UE72 CC      | 179          | 90 | 241       | 97 |
| UE72 CC + GT | 194          | 90 | 256       | 97 |