



## Main

|                           |                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------|
| Range compatibility       | Lexium 62 ILM<br>Lexium 15<br>Lexium 62<br>Lexium 52<br>Lexium 32                 |
| Product or component type | Planetary gearbox                                                                 |
| Gear box type             | Straight teeth                                                                    |
| Device short name         | GBX                                                                               |
| Gearbox external diameter | 160 mm                                                                            |
| Product compatibility     | BSH (140 mm, 3 motor stacks)<br>BMH (140 mm, 3 motor stacks)<br>SH3<br>MH3<br>ILM |
| Reduction ratio           | 12:1                                                                              |

## Complementary

|                            |                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum torsional backlash | 10 arc.min                                                                                                                                                                                     |
| Torsional rigidity         | 41 N.m/arcmin                                                                                                                                                                                  |
| Housing colour             | Black                                                                                                                                                                                          |
| Housing material           | Black anodized aluminium                                                                                                                                                                       |
| Shaft material             | C 45                                                                                                                                                                                           |
| Additional information     | Lubricated for life                                                                                                                                                                            |
| Service life in hours      | 30000 h at 100 rpm at 30 °C                                                                                                                                                                    |
| Efficiency                 | 94 %                                                                                                                                                                                           |
| Mounting position          | Any position                                                                                                                                                                                   |
| Maximum radial force Fr    | 4200 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C<br>6000 N at 100 rpm, force applied at mid-distance from output shaft during 10000 hour at 30 °C |
| Maximum axial force Fa     | 6000 N at 100 rpm, during 30000 hour at 30°C<br>8000 N at 100 rpm, during 10000 hour at 30°C                                                                                                   |

|                          |                              |
|--------------------------|------------------------------|
| Moment of inertia        | 12.37 g.cm <sup>2</sup>      |
| Continuous output torque | 800 N.m at 100 rpm at 30 °C  |
| Maximum output torque    | 1280 N.m at 100 rpm at 30 °C |
| Product weight           | 22 kg                        |

## Environment

|                                   |                       |
|-----------------------------------|-----------------------|
| Noise level                       | 70 dB at 1 m, no-load |
| IP degree of protection           | Shaft output: IP54    |
| Ambient temperature for operation | -25...90 °C           |

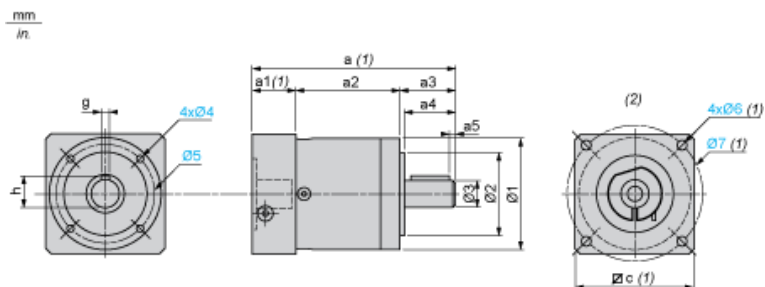
## Offer Sustainability

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                 |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                     |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                     |
| Mercury free               | Yes                                                                                                                   |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                         |
| Circularity Profile        | No need of specific recycling operations                                                                              |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



- (1) Dimensions a, a1, c, Ø6 and Ø7 depend on the planetary gearbox/servo motor combination  
(2) Servo motor assembly

Dimensions in mm

| a2    | a3 | a4 | a5 | h  | g  | Ø1  | Ø2     | Ø3    | Ø4 (oblong) | Ø5  |
|-------|----|----|----|----|----|-----|--------|-------|-------------|-----|
| 153.5 | 87 | 80 | 8  | 43 | 12 | 160 | 130 h7 | 40 h7 | M12 x 20    | 145 |

Dimensions in mm

| a   | a1   | c         | Ø6  | Ø7  |
|-----|------|-----------|-----|-----|
| 305 | 64.5 | 140 x 140 | M10 | 165 |

Dimensions in in.

| a2   | a3   | a4   | a5   | h    | g    | Ø1   | Ø2      | Ø3      | Ø4 oblong  | Ø5   |
|------|------|------|------|------|------|------|---------|---------|------------|------|
| 6.04 | 3.42 | 3.14 | 0.31 | 1.69 | 0.47 | 6.29 | 5.12 h7 | 1.57 h7 | M12 x 0.79 | 5.70 |

Dimensions in in.

| a     | a1   | c           | Ø6  | Ø7   |
|-------|------|-------------|-----|------|
| 12.00 | 2.53 | 0.21 x 0.21 | M10 | 6.49 |