Product data sheet
Characteristics

GBX1600401403F
gearbox with straight teeth GBX- Ø 160 mm- reduction 40:1- < 10arcmin- 700 N.m

Main

Range compatibility	Lexium 52 Lexium 62 Lexium 15 Lexium 62 ILM Lexium 32
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Gearbox external diameter	6.30 in (160 mm)
Product compatibility	SH3 MH3 ILM
Reduction ratio	40:1

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 100 rpm 86 °F (30 °C)
Efficiency	94 %
Mounting position	Any position
Maximum radial force Fr	4200 N 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C 6000 N 100 rpm, force applied at mid-distance from output shaft during 10000 hour at 30 °C
Maximum axial force Fa	6000 N 100 rpm, during 30000 hour at 30°C 8000 N 100 rpm, during 10000 hour at 30°C
Moment of inertia	0.00 lb.in² (5.28 g.cm²)
Continuous output torque	6195.51 lbf.in (700 N.m) 100 rpm 86 °F (30 °C)
Maximum output torque	9912.82 lbf.in (1120 N.m) 100 rpm 86 °F (30 °C)
Net Weight	48.50 lb(US) (22 kg)

Environment

Noise level	70 dB 1 m, no-load
IP degree of protection	Shaft output IP54
Ambient temperature for operation	-13…194 °F (-25…90 °C)

Ordering and shipping details

Category	18283 - NEUGART GEARBOXES
Discount Schedule	PC53
GTIN	03389118145153
Nbr. of units in pkg.	1
Package weight(Lbs)	50.6 lb(US) (22.95 kg)

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Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	10.24 in (26 cm)
Package 1 width	17.72 in (45 cm)
Package 1 Length	10.24 in (26 cm)

Offer Sustainability

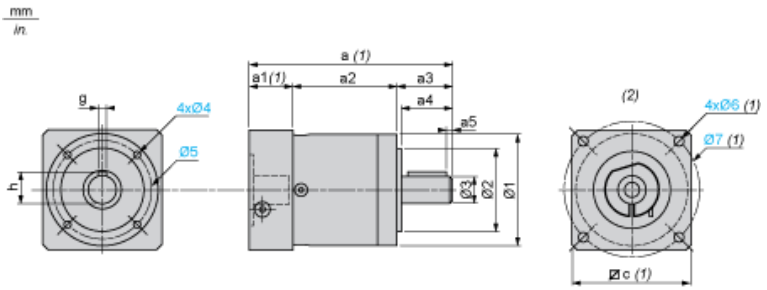
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
PVC free	Yes

Contractual warranty

Warranty	18 months

GBX1600401403F

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