Product data sheet

Specification





(!) Discontinued - Service only

gearbox with straight teeth GBX-Ã~ 160 mm- reduction 25:1- < 10arcmin- 700 N.m

GBX1600251003F

- ! Discontinued on: Jun 15, 2023
- ! To be end-of-service on: Mar 31, 2028

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range Compatibility	Lexium 52 Lexium 15 Lexium 32 Lexium 32i Lexium 62 ILM Lexium 62				
Product or Component Type	Planetary gearbox				
Gear box type	Straight teeth				
Device short name	GBX				
Gearbox external diameter	6.3 in (160 mm)				
Product compatibility	BSH 3.9 in (100 mm), 3 BMH 3.9 in (100 mm), 3 BMI 3.9 in (100 mm), 3 SH3 MH3 ILM				
Reduction ratio	25:1				

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 86.00000000000 °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	0.002 lb.in² (5.81 g.cm²)			

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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Continuous output torque	6195.5 lbf.in (700 N.m) 100 rpm 86.0000000000 °F (30 °C)		
Maximum output torque	9912.8 lbf.in (1120 N.m) 100 rpm 86.0000000000 °F (30 °C)		
Product Weight	48.5 lb(US) (22 kg)		

Environment

Noise level	70 dB 1 m, no-load
IP Degree of Protection	Shaft output IP54
ambient temperature for operation	-13.0000000000194.0000000000 °F (-2590 °C)

Ordering and shipping details

_	· · · ·
Category	US1PC5318283
Discount Schedule	PC53
GTIN	3389118144729
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.2 in (26.0 cm)
Package 1 Width	17.7 in (45.0 cm)
Package 1 Length	10.2 in (26.0 cm)
Package 1 Weight	53.22 lb(US) (24.14 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

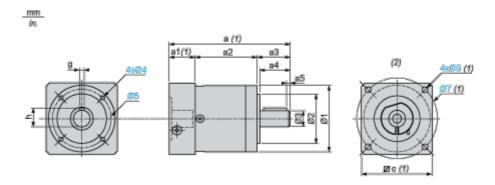
	Mercury Free	
⊘	Rohs Exemption Information	Yes
Ø	Pvc Free	

Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)				
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	No need of specific recycling operations				
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				

Dimensions Drawings

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	а3	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

а	a1	С	Ø6	Ø7
305	64.5	140 x 140	M8	115

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		4.52				