Product datasheet

Specification





gearbox straight teeth GBX - Ø 60 mm - reduction 4:1 < 10 arc.min - 38 N.m

GBX060004K

EAN Code: 3606480388194

Main

Range Compatibility	Lexium ILS					
Mange Companionity	Lexium 52					
	Lexium 62 ILM					
	Lexium 32					
	Lexium ILA					
	Lexium SD3					
	Lexium 62					
Product Or Component Type	Planetary gearbox					
Gear Box Type	Straight teeth					
Device Short Name	GBX					
Product Compatibility	BMH (70 mm, 1 motor stacks)					
	BMH (70 mm, 2 motor stacks)					
	BMH (70 mm, 3 motor stacks)					
	BSH (55 mm, 1 motor stacks)					
	BSH (55 mm, 2 motor stacks)					
	BSH (55 mm, 3 motor stacks)					
	BSH (70 mm, 1 motor stacks)					
	BSH (70 mm, 2 motor stacks)					
	BSH (70 mm, 3 motor stacks)					
	BRS3					
	ILA (57 mm, 1 motor stacks)					
	ILA (57 mm, 2 motor stacks)					
	ILS (57 mm, 1 motor stacks)					
	ILS (57 mm, 2 motor stacks)					
	ILS (57 mm, 3 motor stacks)					
	SH3					
	MH3					
	ILM					
Gearbox External Diameter	60 mm					
Reduction Ratio	4:1					

Complementary

Maximum Torsional Backlash	10 arc.min					
Torsional Rigidity	2.3 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					
Mounting Position	Any position					
Efficiency	96 %					
Maximum Radial Force Fr	340 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$					

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Maximum Axial Force Fa	450 N at 100 rpm, during 30000 hour at 30°C					
Moment Of Inertia	0.093 kg.cm²					
Continuous Output Torque	38 N.m at 100 rpm at 30 °C					
Maximum Output Torque	61 N.m at 100 rpm at 30 °C					
Net Weight	0.9 kg					
Input Diameter	14.0 mm					

Environment

Noise Level	58 dB at 1 m, no-load				
Ip Degree Of Protection	Shaft output: IP54				
Ambient Temperature For Operation	-2590 °C				

Packing Units

9	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.8 cm
Package 1 Width	6.8 cm
Package 1 Length	13.5 cm
Package 1 Weight	825 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	10
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	8.738 kg

Logistical informations

Country Of Origin U

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



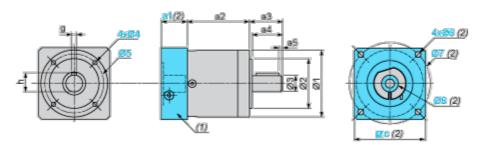
Certifications & Standards

Reach Regulation	REACh Declaration				
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				

GBX060004K

Dimensions Drawings

Dimensions with Servo Motor Adaptation Kit



- (1) GBK adaptation kit
- (2) GBK adaptation kit related dimensions a1, c, Ø6, Ø7, Ø8 depend on the gearbox and servo motor combination
- Ø8 shaft end adaptor in case motor shaft diameter is smaller than gearbox input coupling diameter

Values in mm

a2	а3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
55	35	30	2.5	16	5	60	40 h7	14 h7	M5 x 8	52

Values in in.

values in in.										
a2	а3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
2.16	1.38	1.18	0.10	063	0.19	2.36	1.57 h7	0.55 h7	M5 x 0.31	2.05