

gearbox straight teeth GBX - Ø 120 mm - reduction 40:1 < 9 arc.min - 230 N.m

GBX120040K

EAN Code: 3606480388545

Main

Range compatibility	Lexium 62
	Lexium 52
	Lexium 32
	Lexium 28
	Lexium 32i
	Lexium 62 ILM
Gear box type	Straight teeth
Product or component type	Planetary gearbox
Device short name	GBX
Product compatibility	BMI (70 mm, 2 motor stacks)
	BMI (70 mm, 3 motor stacks)
	BMH (70 mm, 2 motor stacks)
	BMH (70 mm, 3 motor stacks)
	BSH (70 mm, 2 motor stacks)
	BSH (70 mm, 3 motor stacks)
	BCH2 (100 mm, 1 motor stacks)
	BCH2 (130 mm, 1 motor stacks)
	SH3
	MH3
	ILM
Gearbox external diameter	120 mm
Reduction ratio	40:1

Complementary

Maximum torsional backlash	9 arc.min
Torsional rigidity	13 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	94 %
Maximum radial force Fr	1500 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	2100 N at 100 rpm, during 30000 hour at 30°C
moment of inertia	1.3 kg.cm²
Continuous output torque	230 N.m at 100 rpm at 30 °C
Maximum output torque	368 N.m at 100 rpm at 30 °C

Net weight	8 kg
Input diameter	24.0 mm
No load running torque	0.3 N.m
Reduction ratio	40
Compatibility code	GBX
Internal length	126.5 mm

Environment

Noise level	65 dB at 1 m, no-load				
IP degree of protection	Shaft output: IP54				
ambient temperature for operation	-2590 °C				

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.000 cm
Package 1 Width	13.000 cm
Package 1 Length	13.000 cm
Package 1 Weight	7.207 kg
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	35.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	71.264 kg

Logistical informations

Country of origin DE

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∅ Environmental footprint

Environmental Disclosure

Product Environmental Profile

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	7c9e597c-8ccc-4daf-95fb-5d67fc70d561
REACh Regulation	REACh Declaration
PVC free	Yes

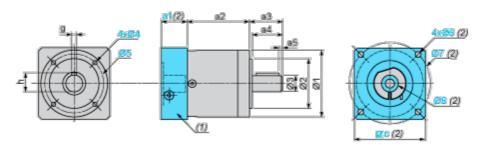
Use Again

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No

GBX120040K

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
126.5	55	50	5	28	8	115	80 h7	25 h7	M10 x 16	100

Values in in

values in in.										
a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
4.98	2.17	1.97	0.19	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94