

gearbox straight teeth GBX - Ø 120 mm - reduction 5:1 < 7 arc.min - 195 N.m

GBX120005K

EAN Code: 3606480388453

Main

Lexium 62 ILM Lexium 32 Lexium 62 Lexium SD3 Lexium 52 Lexium 28 Lexium 32i
Lexium 62 Lexium SD3 Lexium 52 Lexium 28
Lexium SD3 Lexium 52 Lexium 28
Lexium 52 Lexium 28
Lexium 28
Lexium 32i
Straight teeth
Planetary gearbox
GBX
BMI (100 mm, 2 motor stacks)
BMI (100 mm, 3 motor stacks)
BMH (140 mm, 1 motor stacks)
BMH (140 mm, 2 motor stacks)
BSH (100 mm, 4 motor stacks)
BSH (140 mm, 1 motor stacks)
BSH (140 mm, 2 motor stacks)
BRS3
BCH2 (100 mm, 1 motor stacks)
BCH2 (100 mm, 2 motor stacks)
BCH2 (130 mm, 1 motor stacks)
BCH2 (130 mm, 2 motor stacks)
BCH2 (130 mm, 3 motor stacks)
BCH2 (130 mm, 4 motor stacks)
SH3
MH3
ILM
120 mm
5:1

Complementary

Maximum torsional backlash	7 arc.min
Torsional rigidity	12 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	1500 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$
Maximum axial force Fa	2100 N at 100 rpm, during 30000 hour at 30°C

moment of inertia	1.53 kg.cm ²				
Continuous output torque	195 N.m at 100 rpm at 30 °C				
Maximum output torque	312 N.m at 100 rpm at 30 °C				
Net weight	6 kg				
Input diameter	24.0 mm				
No load running torque	0.3 N.m				
Reduction ratio	5				
Compatibility code	GBX				
Internal length	99.5 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	12.500 cm
Package 1 Width	12.500 cm
Package 1 Length	18.000 cm
Package 1 Weight	5.397 kg
Unit Type of Package 2	P06
Number of Units in Package 2	5
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	40.135 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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	1184
Environmental Disclosure	Product Environmental Profile

Use Better

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

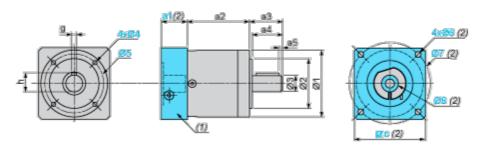
Use Again

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

GBX120005K

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

							Ø2			Ø5
99.5	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	
3.92	2.17	1.97	0.19	1.10	0.31	4.53	3.15 h7	0.98 h7	M10 x 0.63	3.94	