

# gearbox straight teeth GBX - Ø 60 mm - reduction 3:1 < 10 arc.min - 28 N.m

GBX060003K

EAN Code: 3606480388187

## Main

Range compatibility	Lexium ILA						
	Lexium 28						
	Lexium 62 ILM						
	Lexium 62						
	Lexium 32						
	Lexium ILS						
	Lexium 52						
	Lexium SD3						
Gear box type	Straight teeth						
Product or component type	Planetary gearbox						
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)						
	BCH2 (60 mm, 1 motor stacks)						
	BCH2 (60 mm, 2 motor stacks)						
	SH3						
	MH3						
	ILM						
Gearbox external diameter	60 mm						
Reduction ratio	3:1						

# 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 $^{\circ}\text{C}$					
Maximum axial force Fa	450 N at 100 rpm, during 30000 hour at 30°C					
moment of inertia	0.135 kg.cm²					
Continuous output torque	28 N.m at 100 rpm at 30 °C					
Maximum output torque	45 N.m at 100 rpm at 30 °C					
Net weight	0.9 kg					
Input diameter	14.0 mm					
No load running torque	0.05 N.m					
Reduction ratio	3					
Compatibility code	GBX					
Internal length	39.0 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**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.800 cm
Package 1 Width	6.800 cm
Package 1 Length	13.000 cm
Package 1 Weight	816.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.533 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)	1163					
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

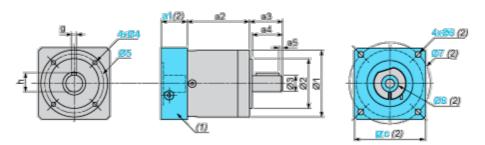
## Use Again

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

## GBX060003K

## **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

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								Ø2			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