

## gearbox straight teeth GBX - Ø 80 mm - reduction 25:1 < 9 arc.min -110 N.m

GBX080025K

EAN Code: 3606480388408

### Main

Range compatibility	Lexium SD3
	Lexium 28
	Lexium 62 ILM
	Lexium 62
	Lexium ILS
	Lexium 32
	Lexium 52
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)
	BSH (70 mm, 1 motor stacks)
	BSH (70 mm, 2 motor stacks)
	BRS3
	ILS (85 mm, 1 motor stacks)
	ILS (85 mm, 2 motor stacks)
	ILS (85 mm, 3 motor stacks)
	BCH2 (80 mm, 1 motor stacks)
	BCH2 (80 mm, 2 motor stacks)
	SH3
	MH3
	ILM
Gearbox external diameter	80 mm
Reduction ratio	25:1

## Complementary

Maximum torsional backlash	9 arc.min
Torsional rigidity	6.5 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	97.0 %
Maximum radial force Fr	650 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 $^{\circ}\text{C}$
Maximum axial force Fa	1200 N at 100 rpm, during 30000 hour at 30°C
moment of inertia	0.423 kg.cm²
Continuous output torque	110 N.m at 100 rpm at 30 °C

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Maximum output torque	176 N.m at 100 rpm at 30 °C				
Net weight	2.6 kg				
Input diameter	19.0 mm				
No load running torque	0.1 N.m				
Reduction ratio	25				
Compatibility code	GBX				
Internal length	89.5 mm				

### **Environment**

Noise level	60 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	11.0 cm
Package 1 Width	10.7 cm
Package 1 Length	18.0 cm
Package 1 Weight	2.41 kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.217 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)	1170
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

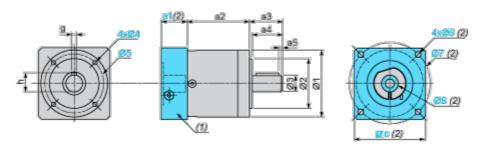
### Use Again

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

### GBX080025K

### **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
89.5	40	36	4	22.5	6	80	60 h7	20 h7	M6 x 10	70

#### Values in in.

	a2	а3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
	3.52	1.57	1.42	0.16	089	0.24	3.15	2.36 h7	0.79 h7	M6 x 0.39	2.76