

Product data sheet

Characteristics

GBX040003K

gearbox straight teeth GBX - Ø 40 mm -
reduction 3:1 < 15 arc.min - 11 N.m



Main

Range compatibility	Lexium ILE Lexium SD3 Lexium 28
Product or component type	Planetary gearbox
Gear box type	Straight teeth
Device short name	GBX
Product compatibility	BCH2 (40 mm, 2 motor stacks) BCH2 (40 mm, 1 motor stacks) ILE (66 mm, 2 motor stacks) ILE (66 mm, 1 motor stacks) BRS3
Gearbox external diameter	40 mm
Reduction ratio	3:1

Complementary

Torsional backlash	< 15 arc.min
Torsional rigidity	1 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	160 N at 100 rpm, force applied at mid-distance from output shaft during 30000 hour at 30 °C
Maximum axial force Fa	160 N at 100 rpm, during 30000 hour at 30°C
Moment of inertia	0.031 kg.cm²
Continuous output torque	11 N.m at 100 rpm at 30 °C
Maximum output torque	17.5 N.m at 100 rpm at 30 °C

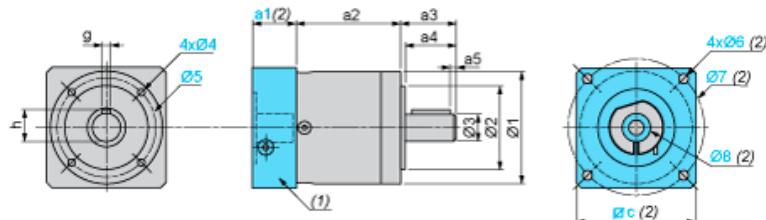
Environment

Noise level	55 dB at 1 m, no-load
IP degree of protection	IP54 on shaft output
Ambient temperature for operation	-25...90 °C

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1129 -  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available  Download Product Environmental
Product end of life instructions	Need no specific recycling operations

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	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
39	26	23	2.5	11.2	3	40	26 h7	10 h7	M4 x 6	34

Values in in.

a2	a3	a4	a5	h	g	Ø1	Ø2	Ø3	Ø4	Ø5
1.54	1.02	0.90	0.10	0.44	0.11	1.57	1.02 h7	0.39 h7	M4 x 0.23	1.34