

DGT LG120 Gear Motor

Compact vent and screen gear motor, with Sempleta variant

The LG120 is a compact gear motor aimed at vent and screen drives in smaller greenhouses, offered at 60 Nm (single-phase) and 120 Nm (three-phase). Its motor runs parallel to the through-going output shaft, and three mounting faces allow horizontal, vertical or angled fixing to a gutter or base plate.

A self-locking worm gear holds the vent when power is cut, while an adjustable limit switch geared to the output shaft sets the stop positions. A manual-drive hole in the motor, an optional potentiometer for position feedback and chain or profile couplings complete the package. The manufacturer rates one unit to move up to 50 m of polycarbonate vent or 40 m of glass.

A dedicated variant connects to the Sempleta analogue climate control. It delivers 60 Nm at 3.3 RPM from a 1 x 208-230 V, 50 Hz supply and is available as a right-hand or left-hand gear.

Key capabilities

- 60 Nm single-phase or 120 Nm three-phase versions
- Manufacturer-rated for up to 50 m of polycarbonate vent or 40 m of glass
- Three mounting faces: horizontal, vertical or angled
- Inverted model available for paired installations
- Self-locking worm gearing holds vents and screens if power fails
- Adjustable limit switch geared directly to the output shaft
- Threaded motor hole for manual operation before wiring
- Optional 1000 Ohm potentiometer for position feedback
- Chain or profile couplings on an external output shaft
- Sempleta-compatible variant (60 Nm, 3.3 RPM, right or left gear)

Technical specifications

Torque output	60 Nm (single-phase) or 120 Nm (three-phase)
Output speed (50 Hz items)	1.1, 3.3, 3.5 or 6.8 RPM, depending on item
Output speed (60 Hz items)	3.9 RPM (60 Nm), 1.3 or 4.2 RPM (120 Nm)
Max. rotations between limit switches	15 or 50, depending on item
Supply voltage, 60 Nm versions	1 x 208-230 V (or 1 x 230 V), 50 Hz
Supply voltage, 120 Nm versions	3 x 200-230 / 346-400 V, 50 Hz
Current (60 Nm items, 50 Hz)	1.45-1.6 A
Current (120 Nm items, 50 Hz)	1.1-1.2 A (200-230 V) / 0.67-0.68 A (346-400 V)
Power	0.25 kW (single-phase) / 0.18 kW (three-phase)
Handing	Right or left gear

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Sempleta variant: torque and speed	60 Nm, 3.3 RPM
Sempleta variant: supply	1 x 208-230 V, 50 Hz, 1.45-1.6 A, 0.25 kW
Sempleta variant: rotations between limit switches	15 (right and left gear)
Max. window run (manufacturer figure)	50 m polycarbonate / 40 m glass
Dimensions (L x W x H)	386 x 224 x 165 mm
Weight	Approx. 13.5 kg
IP rating	IP55/F
Ambient temperature	0 - 70 °C (max. operating temperature 100 °C)
EMC	Emission EN50081-1, immunity EN50082-1

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