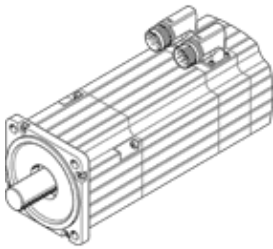


# Servo motor MTR-AC-100-5S-GB

Part number: 526738

FESTO

With gearbox and brake.



## Data sheet

Feature	Value
Torsional backlash	$\leq 0.05$ deg
Type of gear unit	Planetary gear unit
Gear unit ratio	4:1
Rotor position sensor	Resolver
Temperature monitoring	PTC resistor
Nominal output speed gear unit for 50% ED	575 1/min
Nominal output speed gear unit for 100% ED	387 1/min
Max. speed	4,550 1/min
Nominal rotary speed	3,600 1/min
Operating voltage DC for brake	24 V
Continuous open-circuit current	8.43 A
Insulation protection class	F
Power consumption, brake	13 W
Motor constant	1.49 Nm/A
Nominal motor power	2,396 W
Nominal voltage DC	560 V
Nominal motor current	4.3 A
Peak current	16 A
CE mark (see declaration of conformity)	to EU directive low-voltage devices
Storage temperature	-10 ... 60 °C
Relative air humidity	Max. 90%
Protection class	IP54
Ambient temperature	-40 ... 40 °C
Authorisation	c UL us - Recognized (OL)
Overall mass moment of inertia at power take-off	118.04 kgcm <sup>2</sup>
Gear-unit output torque	25 Nm
Gear unit efficiency	0.98
Brake holding torque	6 Nm
Mass moment of inertia of brake	0.54 kgcm <sup>2</sup>
Mass moment of inertia of gear unit	0.6 kgcm <sup>2</sup>
Mass moment of inertia of rotor	6.8 kgcm <sup>2</sup>
Nominal torque	6.36 Nm
Peak torque	23 Nm
Standstill torque	12.53 Nm
Torsional resistance	$\leq 4.5$ Nm/arc
Permissible axial shaft load	9,000 N
Permissible radial shaft load	4,000 N
Product weight	14,000 g
Electrical connector system	Plug