

# Aktuator SG33BL



## GENERAL SPECIFICATION / Technische Daten

	SG33BL-S-12V	SG33BL-T-12V
Operating Voltage Range / <u>Betriebsspannungsbereich</u>	9.0 V ~ 15.0 V	
Test Voltage / <u>Prüfspannung</u>	AT 12.0 V	AT 12.0V
No Load Speed / <u>ohne Last</u>	0.15 sec / 60° (400°/sec)	0.15 sec / 60° (320°/sec)
Rated Torque / <u>Nenn Drehmoment</u>	18.35 kgf·cm (1.8N·m)	24.47 kgf·cm (2.4N·m)
Peak Torque / <u>max. Drehmoment</u>	110.12 kgf·cm (10.8N·m)	146.84 kgf·cm (14.4N·m)
Control Signal / <u>Steuersignal</u>	PWM // RS-485 // TTL (Half Duplex)	
Operating Travel / <u>Gesamtweg/-winkel</u>	PWM : Standard : ±60°±0.5 Optional : ±160°±0.5	
Multi Turn / <u>Drehantrieb</u>	Optional : Max ±8 Turn (±2880°)	
Motor Type / <u>Motorart</u>	Brushless	
Position Type / <u>Messaufnehmer</u>	Contactless / kontaktlos	

## MECHANICAL FEATURES - Mechanische Eigenschaften

Dimensions / <u>Maße</u>	64.0 x 33.0 x 95.0mm (±0.2mm) / (2.52 x 1.30 x 3.74in)
Weight / <u>Gewicht</u>	400g (±10%)
Housing / <u>Gehäuse</u>	Rugged Aluminum Alloy / <u>Robuste Aluminiumlegierung</u>
Gear Reduction / <u>Untersetzung</u>	Durable Hardened Steel with Gear Protection System
Ball Bearing / <u>Kugellager</u>	2 Ball Bearing / <u>Kugellager</u> & 2 Needle Bearing / <u>Nadellager</u>
Gear Train Backlash / <u>Getriebespiel</u>	< 0.5°
Slip Clutch Release Momentum / <u>Rutschkupplung Lösemoment</u>	>Peak torque +20%

## ENVIRONMENTAL SPECIFICATIONS - Umgebungsbedingungen

Operation Temperature / <u>Arbeitstemperatur</u>	-30°C (-22°F) +70°C (+158°F)	MIL-STD-810G Method 502.5
Storage Temperature / <u>Lagertemperatur</u>	-40°C (-40°F) +80°C (+176°F)	
Humidity / <u>Feuchtigkeit</u>	95% @35°C ~ 60°C @300hours	
Protection class / <u>Schutzklasse</u>	IP68	IEC 60529
Variation / <u>Variation</u>	Orthogonal Axes : ±X, ±Y, ±Z from 50 ~ 500Hz Duration : Sweep 5min Acceleration 30G Displament : 5mm	MIL-STD-810G 514.6C-VII EN 60068-2-6
Mechanical Shock / <u>mechanischer Schock</u>	Procedure 1 - Functional shock 20g, 11ms, Sawtooth Waveform	MIL-STD-810G 516.6
EMC	-	CISPR 16-1,2 IEC 61000-4-2,4,6
MTBF / <u>mittleren Ausfallabstand</u>	>500h	Test Condition Load : 20% of Max Torque 0.5Hz sweep(±60)