

Electromechanical Actuator ServoMax120C



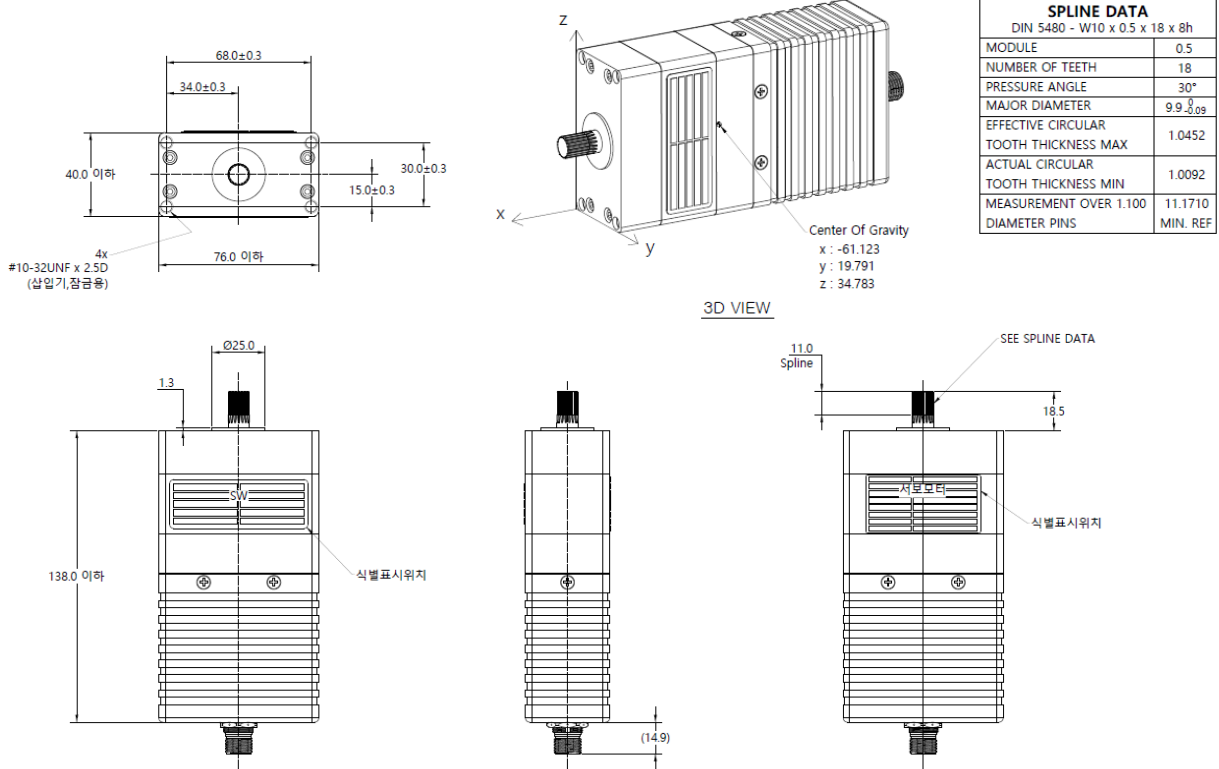
Specifications

Motor High Reliability BLDC
Position Sensor Contactless
Databus Interface Dual CAN
Rated Torque 100kgf·cm
Max. Torque (Short term use only) 120kgf·cm
Rated Speed 60°/sec@28Vdc
No Load Speed 110°/sec@28Vdc
Operating Voltage 18~32Vdc
Rated Current 2.2A (Peak Current 6.5A)
Control Accuracy ≤0.5°
Bandwidth ≥3.5Hz @ 2°(3kgf·cm) sine wave
Weight 780g
Max. Travel Angle ±45° (No Mechanical Stop)
Connector(Receptacle) GLENAIR 801-011-07M8-13PA(-501)
Operating Temperature -32°C ~ 55°C
Environmental Conditions Selected Items only and Similarity with MIL-STD-810G
Electromagnetic Compliance Selected Items only and Similarity with MIL-STD-461G

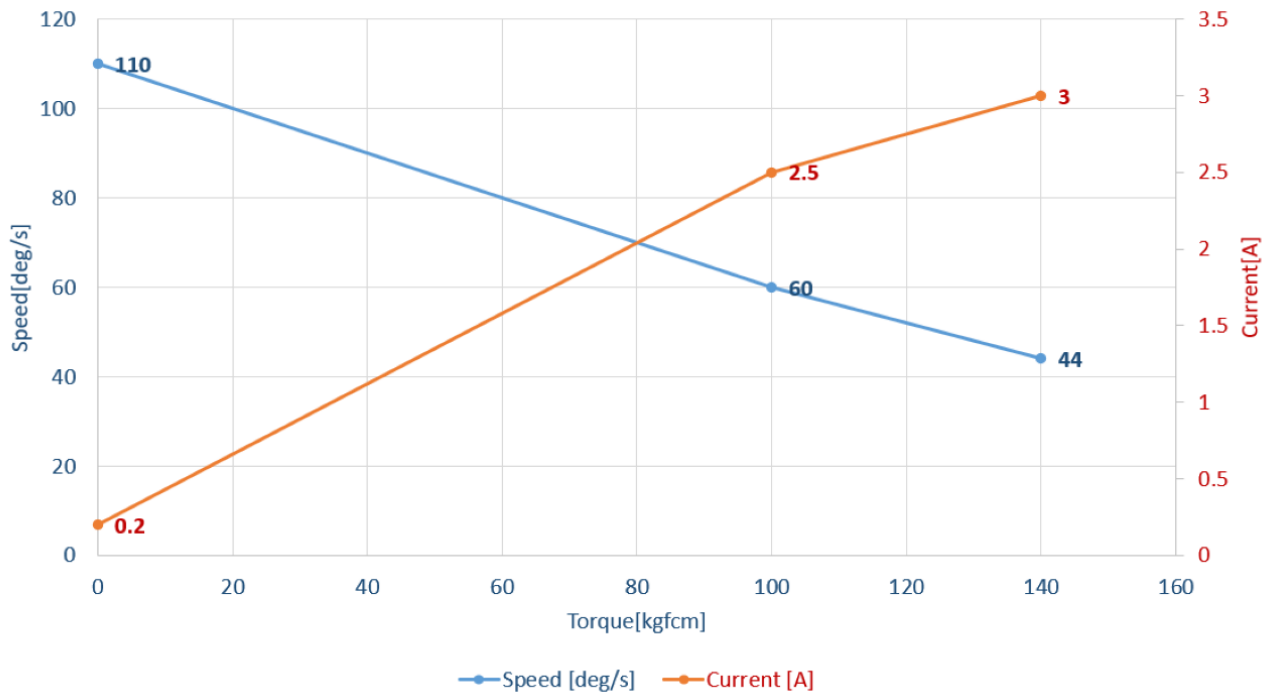
* Refer to ICD and User's Manual at

<https://contromax.gitbook.io/contromax-product-manual>

Dimensions



NTI Curve



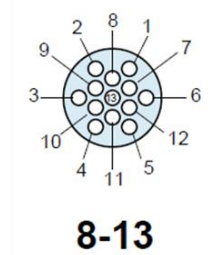
Electrical Interface

Receptacle	GLENAIR, 801-011-07M8-13PA(-501)				
*Mating Plug	GLENAIR, 801-007-16(26)M8-13SA or Cinch MD801-007-16(26)M8-13SA 16: Plug with Anti-Decoupling Spring 26: Self-Locking Plug with Ratchet Mechanism				
Pin No.	Name	SMR120C	**AWG	Max. Current [A]	Remarks
1	-	-	-	-	-
2	CAN A_H	O	22~24	-	Twisted Pair, Shield
3	PWR_IN	O	22	3	-
4	PWR_RET	O	22	3	-
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	CAN B_H	O	22~24	-	Twisted Pair, Shield
9	CAN A_L	O	22~24	-	Twisted Pair, Shield
10	PWR_IN	O	22	3	-
11	PWR_RET	O	22	3	-
12	CHASSIS	O	22	-	-
13	CAN B_L	O	22~24	-	Twisted Pair, Shield

*: Reference Only, please see the manufacturer's options for different locking mechanism

** : 동일 AWG더라도, Core Strand 개수에 따라, 전류 용량 달라짐.

**Mating Face View of Pin Connector
(Socket Connector Numbers are reversed)**



Servo Housing Receptacle

CAN Databus Interface

Revision CAN2.0B
Baudrate 1M/500k(Default)/250k/125k
Big Endian
Termination resistors not available
Command/Response message exchange 1 Command Message & 2(Max) Response Messages
Access to internal memory available for user configuration
Please contact tech@contromax.com for further details