

ELECTROMECHANICAL ROTARY ACTUATORS

GUN/TURRET/RADAR DRIVES FOR LAND SYSTEMS



Moog's electromechanical rotary actuators are designed to meet or exceed the demanding requirements of new and existing land system gun, turret, and radar applications through world-class stabilization and pointing accuracy. These actuators are used for new and existing combat vehicle platform control applications, heavy payloads requiring high slew-to-cue capability, and as a power drive unit for larger mechanical actuated systems.

can be integrated in a 28VDC system up to a 600VDC system. The output pinion of the actuator can pair with a ring or sector gear or can couple directly to the load. The gear can be modified to mate with any customer defined ring/sector gear. The actuator also features a failsafe clutch, manual drive, and no-back.

Moog is a worldwide designer, manufacturer, and integrator of custom precision motion control and stabilization systems for the defense industry. Our electromechanical rotary and linear actuators are ideal for new systems, upgrades to older hydraulic systems, and for sustainment services.

KEY FEATURES

- Brushless DC motor (28VDC to 600VDC options)
- Integrated brushless resolver or absolute encoder for motor commutation
- Output pinion designed to interface with customer defined ring/sector gear
- Integrated failsafe 18VDC to 32VDC clutch
- Integrated manual drive with custom input ratios
- No-back (optional)
- Design, tested, and qualified to MIL-STD 810E and MIL-STD 461E
- MIL-Spec electrical connectors
- On board absolute encoder position sensor (optional)
- Oil filled for lubrication and heat management (optional)







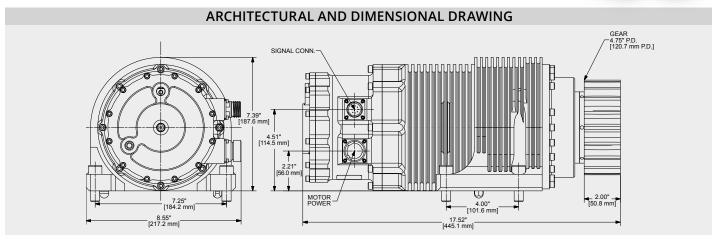


PLATFORM AZIMUTH DRIVE

CA76728

PERFORMANCE		
Features	Specifications	
Peak torque	267.5 FTLB (403.4 Nm)	
Rated torque	136 FTLB (184.4 Nm)	
Rated speed	164.2 rpm	
No load speed	217 rpm	
Minimum static holding torque (brake engaged)	997.6 FTLB (1,353 Nm)	
Supply voltage (nom.)	600VDC	
Backlash	< 28 arc-min.	
Weight	84 lbs (185 kg)	



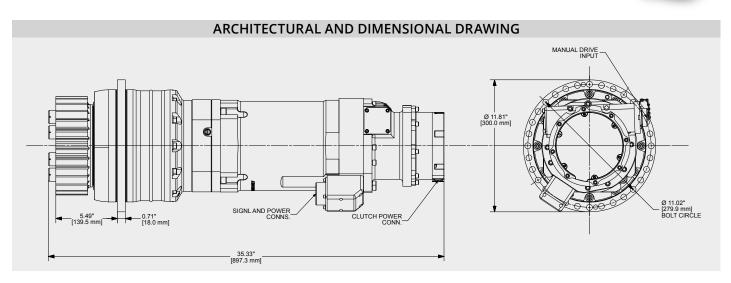


LAUNCHER AZIMUTH DRIVE

ICD CCB91028

PERFORMANCE		
Features	Specifications	
Peak torque	3,975 FTLB (5,389 Nm)	
Rated torque	1,553 FTLB (2,106 Nm)	
Rated speed	19 rpm	
No load speed	75 rpm	
Minimum static holding force (clutch engaged)	2,310 FTLB (3,132 Nm)	
Supply voltage (nom.)	600VDC	
Backlash	< 3 arc-min.	
Weight	360 lbs (792 kg)	





INFANTRY FIGHTING VEHICLE ELEVATION ACTUATOR

C7L265M

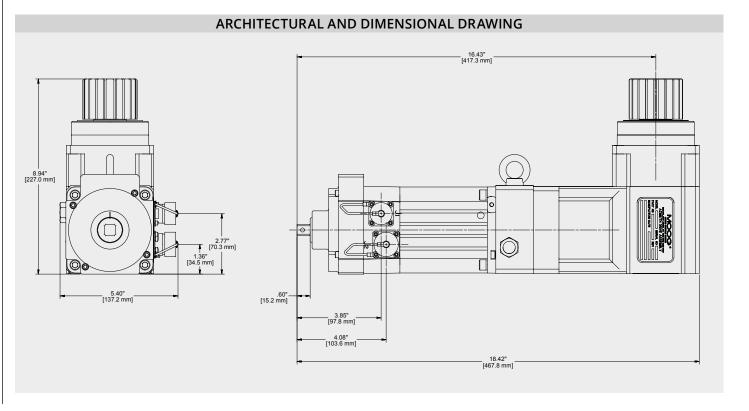
PERFORMANCE	
Features	Specifications
Peak force	4,260 LBF (19.0 kN)
Rated force	1,450 LBF (6.45 kN)
Rated speed	4.3"/s (109 mm/s)
No load speed	5.4"/s (137 mm/s)
Clutch holding force	9,000 LBF (40.0 kN)
Supply voltage	18VDC – 32VDC, 270VDC, 650VDC; 3 x 380VAC, 50 - 60 Hz
Stiffness	300 kLBF/in (52.5 kN/mm)
Backlash	0.015" (0.381 mm)
Weight	76.7 lbs (34.7 kg)
Retracted length	22.9" (581 mm)
Extended length	33.3" (846 mm)



INFANTRY FIGHTING VEHICLE TRAVERSE ACTUATOR

PERFORMANCE	
Features	Specifications
Peak torque	280 Nm (2,480 LBIN)
Rated torque	85 Nm (750 LBIN)
Rated speed	85 rpm
Clutch holding torque	400 Nm (3,570 LBIN)
Supply voltage	24VDC, 48VDC, 270VDC, or 650VDC
Stiffness	7.75 kNm/deg (68.6 kLBIN/deg)
Backlash	5.7 arc-min.
Weight	54 lbs (24.5 kg)



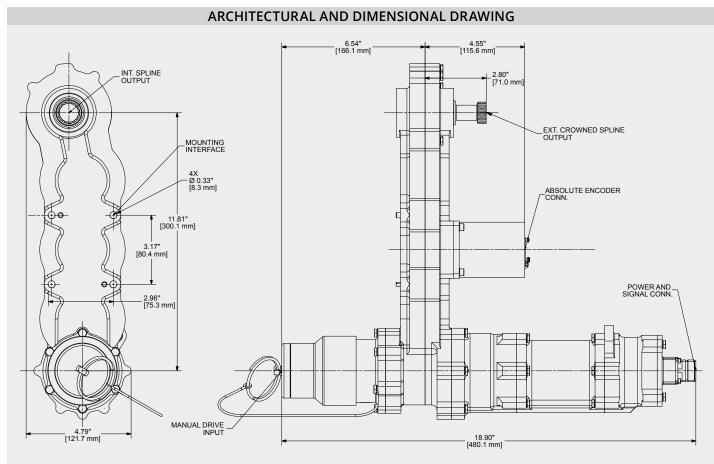


PLATFORM POWER DRIVE UNIT

ICD CB60333

PERFORMANCE		
Features	Specifications	
Peak torque	254 FTLB (344.4 Nm)	
Rated torque	56.7 FTLB (76.9 Nm)	
Rated speed	103 rpm	
No load speed	143 rpm	
Minimum static holding torque (brake engaged)	219 FTLB (297 Nm)	
Supply voltage (nom.)	600VDC	
Weight	30.9 lbs (67.9 kg)	







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