

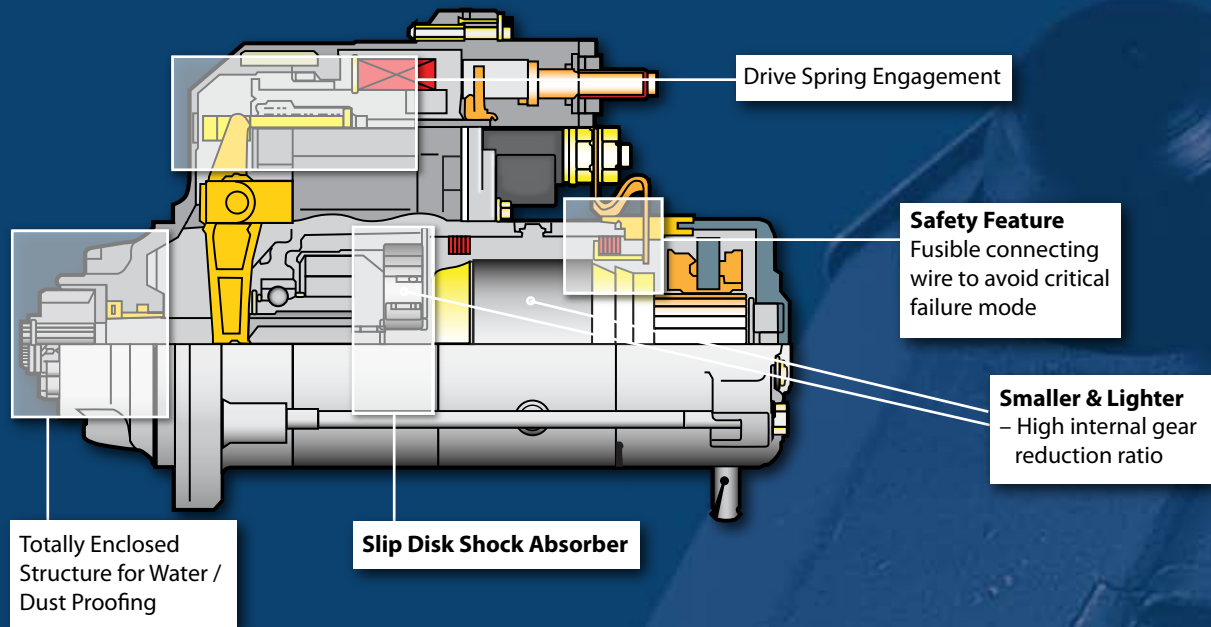


## PA90S STARTER FROM THE LARGEST STARTER MANUFACTURER



### DESIGNED FOR YOUR TOUGHEST APPLICATIONS

For over 35 years, the biggest names in engine manufacturers have chosen one name in cranking power — DENSO Heavy Duty. As the world's largest manufacturer of starters, our starters install faster and perform better under rigorous conditions. The DENSO commitment to quality, durability, performance and innovation is the reason our components are truly better by design.



## FEATURES / BENEFITS

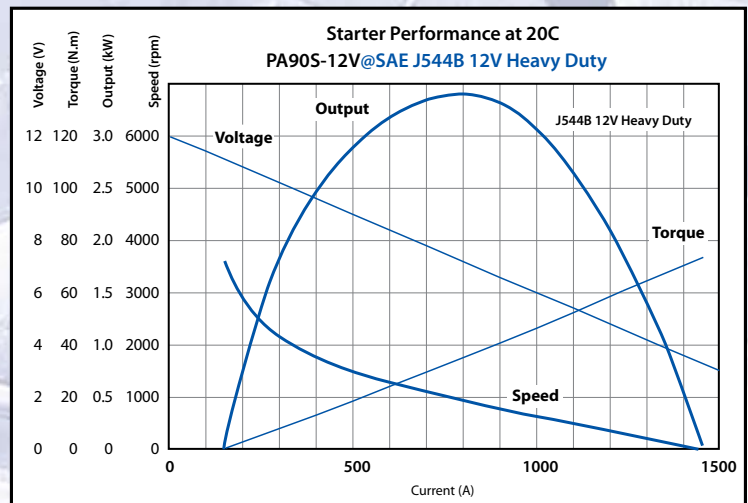
- Totally Enclosed Structure for Water / Dust Proofing
- Drive Spring Engagement
- Clutch Structure
  - Integrated clutch outer with planetary gear carrier
  - Integrated bearing race with clutch inner
- Slip Disk Shock Absorber
- Water Proofing
  - O-ring
  - Gasket
  - Ventilation pipe
- Smaller & Lighter
  - High internal gear reduction ratio
- Safety feature
  - Fusible connecting wire to avoid critical failure mode

## SPECIFICATIONS

- 12V & 3.0kW
- Weight: 16.20 lbs. (Approximate)
- Pinion: DP 8/10 (428000-5120, -5230, -5310) and DP 10 (428000-6110)
- Rotation: Clockwise
- Mount: SAE #1

## APPLICATIONS:

Make	Model	Year	Engine	Size	OEM Part Number	New Part Number	Application Comments
Blue Bird		2007 -	Cummins ISB 07, 6.7L	12V 3.0kW	428000-5120	428000-5120	
Capacity of Texas	TJ5000 DOT	2007 -	Cummins ISB 07, 6.7L	12V 3.0kW	428000-5120	428000-5120	
Capacity of Texas	TJ5000 Off Road	2007 -	Cummins ISB 07, 6.7L	12V 3.0kW	428000-5120	428000-5120	
Cummins	Dodge Ram 6.7L	2007 -	Cummins ISB 07	12V 3.0kW	4934925	428000-6110	Replaces 428000-3330
Cummins	Dodge Ram 6.7L	2007 -	Cummins ISB 07	12V 3.0kW	4934925	428000-3330	Fwd to 428000-6110
Dodge	Ram 6.7L	2007 -	Cummins ISB 07	12V 3.0kW	4934925	428000-6110	Replaces 428000-3330
Dodge	Ram 6.7L	2007 -	Cummins ISB 07	12V 3.0kW	4934925	428000-3330	Fwd to 428000-6110
Freightliner Custom Chassis	MT55	2007 -	Cummins ISB 07	12V 3.0kW	NPD428000-5230	428000-5230	
Freightliner Custom Chassis	Step Van	2007 -	Cummins ISB 07, 6.7L	12V 3.0kW	NPD428000-5230	428000-5230	
Kalmar (Ottawa)	Terminal Tractor	2007 -	Cummins ISB 07, 6.7L	12V 3.0kW	90032414	428000-5120	
Thomas Built Buses		2007 -	Cummins ISB 07, 6.7L	12V 3.0kW	428000-5310	428000-5310	



Karam A.L.  
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