



2000 – 2800 rpm

500 – 800 rpm

## **3700 Series**

RATINGS	5					
Model <sup>(1)</sup>		Input Torque Gross N∙m (lb-ft)	Input Power Gross <sup>(2)</sup> Kw (hp)	Turbine Torque Net <sup>(3)</sup> N∙m (lb-ft)	GVW kg (lbs)	GCW kg (lbs)
3700	General	990 (730)	205 (275)	1830 (1350)	n/a	n/a
	Refuse, Concrete Mixer	1254 (925)	239 (320)	1996 (1450)	n/a	n/a
3200 SP	Specialty / Military	1186 (875)	246 (330)	1996 (1450)	n/a	n/a
3200 SP	, , ,			1996 (1450)		

(1). Models including vocational designations (ie: ORS, OFS, SP, MH) are for global markets. All other models within this document are targeted for non North American markets only. (2). Gross Power rating as defined by ISO 1585 or SAE J1995. (3). Turbine Torque limit based on iSCAAN standard deductions.

## **DRIVETRAIN INTERFACES**

Acceptable full-load engine governed speed	
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Acceptable engine idle speed range (with transmission in Drive)

## MOUNTING

In Chassis

SAE No.2	
Rear mounting pa	ıds

TORQUE CONVERTER			MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)		
Туре	Includes standard inte	One stage, three element, polyphase. gral damper which is operational in lockup.	Range		
	Model	Stall Torque Ratio		First	6.93 : 1
	TC-411	2.71		Second	4.18 : 1
	TC-413	2.44		Third	2.24 : 1
	TC-415	2.35		Fourth	1.69 : 1
	TC-417	2.20		Fifth	1.20 : 1
	TC-418	1.98		Sixth	0.90 : 1
	TC-419	2.02		Seventh	0.78 : 1
	TC-421	1.77		Reverse	-5.00 : 1

## **CONTROL SYSTEM**

CONTROL STSTEM			
Description	Allison 4th Generation Electronic Controls with closed loop adaptive shifts		
Shift Sequences	[C = Converter mode (lockup clutch disengaged); L = Lockup mode (lockup clutch engaged)]		
	Option 1: 1C–[1L]–2C–2L–3L–4L		
	Option 2: 1C–[1L]–2C–2L–3L–4L–5L–6L		
	Option 3: 1C-[1L]-2C-2L-3L-4L-5L-6L-7L		
TCM must be calibrated fo	r "1L" option. Second-gear-start calibrations are not available for all vehicle applications. First gear requires pre-selection.		
Driver-to-Transmissio	n Interface Cab-mounted shift selector, pushbutton or lever with two-digit display (range selected and range a	ttained)	
Communication Protocol - Engine/Vehicle Systems Interface SAE J1939, SAE J1587, ISO 9141, IESCAN			

PHYSICAL DESCRIPTION	Length*		Dry Weight 530 kg (1170 lbs)	
With PTO Drive Provision	1310 mm (51	.6 in)		
*Approximate length from engine housing to c	output flange (depending on output flange type)			
ENGINE-DRIVEN POWER TAKE	-OFF PROVISION			
Mounting pad positions viewed from rear	Drive gear rating with one PTO N●m (lb-ft)	PTO Drive Gear	Drive	
8 o'clock (Standard)	660 (485)	68 tooth	Engine	
OIL SYSTEM				
Allison approved fluids: TES 295 and	TES 389			
Capacity, excluding external circuits			37 litres (39 quarts	
Main circuit oil filter			Replaceable element, integra	
Cooler circuit oil filter			Replaceable element, integra	
SPEEDOMETER PROVISION				
Description			Non-zero-crossing square wav	
Location		9 or 18 pulses per revo	olution of transmission output sha Electronic output from TCI	





