





RATINGS				/		
Model (1)		Input Torque Gross N•m (lb-ft)	Input Power Gross ⁽²⁾ Kw (hp)	Turbine Torque Net ⁽³⁾ N•m (lb-ft)	GVW kg (lbs)	GCW kg (lbs)
2100	General	780 (575)	224 (300)	1152 (850)	12,000 (26,500)	12,000 (26,500)
	Refuse, On-Highway,	746 (550)	224 (300)	1152 (850)	11,000 (24,200)	11,000 (24,200)
	Transit Bus, Shuttle Bus, Coach, Non-North America School Bus	610 (450)	149 (200)	1017 (750)	12,000 (26,500)	12,000 (26,500)
2100 MH	Motorhome	746 (550)	224 (300)	1152 (850)	11,800 (26,000)	13,600 (30,000)
2100 SP	Specialty Vehicles	C O N	ITACT YOUR ALLIS	ON REPRESENTAT	IVE FOR DETAI	LS
2200	General	780 (575)	224 (300)	1152 (850)	11,800 (26,000)	11,800 (26,001)
	Transit Bus, Shuttle Bus, Coach, Non-North America School Bus	610 (450)	149 (200)	1017 (750)	11,800 (26,000)	11,800 (26,001)
2200 MH	Motorhome	746 (550)	224 (300)	1152 (850)	11,800 (26,000)	11,800 (26,001)
2200 SP	Specialty Vehicles	C O N	ITACT YOUR ALLIS	ON REPRESENTAT	IVE FOR DETAI	LS

^{(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.

DRIVETRAIN INTERFACES

Acceptable full-load engine governed speed	2200 – 3800* rpm
Acceptable engine idle speed range (with transmission in Drive)	500 – 820 rpm
Maximum output shaft speed at 105 km/hr (65 mi/hr)	5000 rpm

^{*} Engines with full load governed speed greater than 3800 rpm require Application Engineering review

MOUNTING

To Engine SAE No.3, SAE No.2

TORQUE CONVERTER

Туре	One stage, three element, polyphase. Includes standard integral damper which is operational in lockup.		
	Model	Stall Torque Ratio	
	TC-210	2.05	
	TC-211	1.91	
	TC-221	1.73	
	TC-222	1.58	

Range	
First	3.10:1
Seco	ond 1.81 : 1
Thir	d 1.41 : 1
Four	rth 1.00 : 1
Fifth	0.71 : 1

0.61:1

-4.49:1

Sixth

Reverse

MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)

CONTROL SYSTEM

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-5L Option 2: 1C-[1L]-2C-2L-3L-4L-5L-6L

Driver-to-Transmission Interface	Cab-mounted shift selector
Communication Protocol - Engine/Vehicle Systems Interface	SAE J1939, SAE J1587, ISO 9141, IESCAN

^{(2).} Gross Power rating as defined by ISO 1585 or SAE J1995. (3). Turbine Torque limit based on iSCAAN standard deductions.

PHYSICAL DESCRIPTION					
	Installation Length*	Dry Weight	Depth below trans With Shallow Oil Sump (Standard)	smission centerline With Deep Oil Sump (Optional)	
SAE No.3	729 mm (28.7 in)	150 kg (330 lbs)	272 mm (10.72 in)	285 mm (11.22 in)	
SAE No.2	739 mm (29.1 in)	150 kg (330 lbs)	272 mm (10.72 in)	285 mm (11.22 in)	
*Approximate length from engine hous	ing to output flange (depending on ou	tput flange type)			

TURBINE-DRIVEN	POWER TAKE-0	OFF PROVISION	ı
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Torque converter turbine-driven spur gear
3 o'clock and 9 o'clock positions (as viewed from rear)
Using one PTO: 339 N•m (250 lb-ft)
Total using two PTO's: 271 N•m (200 lb-ft)
1.00 x turbine speed
64 tooth

PARK PAWL*

*Available only in 2200 models (excluding refuse vocation)

OIL SYSTEM

Allison approved fluids: TES 295 and TES 389

Capacity, excluding external circuits

With Deep Oil Pan

14 litres (15 quarts)

With Shallow Oil Pan

12 litres (13 quarts)

Main circuit oil filter

Cooler circuit oil filter

Replaceable element, integral

Spin on canister filter

Standard

SPEEDOMETER PROVISION

Description Non-zero-crossing square wave 8, 16 or 40 pulses per revolution of transmission output shaft Location Electronic output from TCM

TACHOGRAPH PROVISION

Tone wheel 6-tooth
Mounting M18 x 1.5 metric thread
Location Transmission rear cover

2100/2200 Series





