





Model (1)		Gross Input Torque ⁽²⁾ N•m	Gross Input Power ⁽²⁾ kW (hp)	Gross Input Torque ⁽²⁾⁽³⁾ N•m	Gross Input Power ⁽²⁾⁽³⁾ kW (hp)	GVW kg	GCW kg
2100	General	780	224 (300)	895	254 (340)	12,000	12,000
	Refuse, On-Highway	746	746 (550)	766	224 (300)	12,000	12,000
	Transit Bus, Shuttle Bus, Coach, Non-North America School Bus	705	172 (230)	780	201 (270)	13,150	13,150
2100 MH	Motorhome	746	224 (300)	895	254 (340)	11,800	11,800
2100 SP	Specialty Vehicles	C 0	NTACT YOUR ALL	ISON REPRESENTA	TIVE FOR DETAILS	5	
2200	General	780	224 (300)	895	254 (340)	11,800	11,800
	Transit Bus, Shuttle Bus, Coach, Non-North America School Bus	705	172 (230)	780	201 (270)	11,800	11,800
2200 MH	Motorhome	746	224 (300)	895	254 (340)	11,800	11,800
2200 SP	Specialty Vehicles	C 0	NTACT YOUR ALL	ISON REPRESENTA	TIVE FOR DETAILS	5	

^{(1).} Models including vocational designations (ie: ORS, OFS, SP, MH) are for global markets. All other models within this document are targeted for outside North American markets only. (2). Gross ratings as defined by ISO 1585 or SAE J1995. (3). Shift Energy Management (SEM) engine controls and torque limiting are required to obtain this rating.

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	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

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	

MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)		
Range		
First	3.10:1	
Second	1.81 : 1	
Third	1.41 : 1	
Fourth	1.00 : 1	
Fifth	0.71 : 1	
Sixth	0.61 : 1	
Reverse	-4.49 : 1	

CONTROL SYSTEM	Л		
Description	Allison 5th 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 Pro	otocol - Engine/Vehicle Systems Interface	SAE J1939, IESCAN, PT-CAN	

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	150 kg	272 mm	285 mm
SAE No.2	739 mm	150 kg	272 mm	285 mm
*Approximate length from engine housing to output flange (depending on output flange type)				

TURBINE-DRIVEN POWER TAKE-OFF PROVISION	
PTO drive	Torque converter turbine-driven spur gear
PTO mounting pads	Six-bolt, 3 o'clock and 9 o'clock positions (as viewed from rear)
PTO drive gear rating (continuous operation)	Using one PTO: 339 N●m
	Total using two PTOs: 271 N●m
PTO drive gear ratio	1.00 x turbine speed
PTO drive gear	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
With Shallow Oil Pan	12 litres
Main circuit oil filter	Replaceable element, integral
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





