

1000 Series



Model ⁽¹⁾		Gross Input Torque ⁽²⁾ N∙m	Gross Input Power ⁽²⁾ kW (hp)	Gross Input Torque ⁽²⁾⁽ N∙m	³⁾ Gross Input Power ⁽²⁾⁽³⁾ kW (hp)	GVW kg	GCW kg
1000	General	780	224 (300)	895	254 (340)	9000	11,800
	Refuse, On-Highway	746	224 (300)	766	224 (300)	7500	7500
	Transit Bus, Shuttle Bus, Coach Non-North America School Bus	· /05	149 (200)	750	164 (220)	7500	7500
1000 MH	Motorhome	746	224 (300)	895	254 (340)	10,000	11,800
1000 SP	Specialty Vehicles	(CONTACT YOUR A	LLISON REPRESE	NTATIVE FOR DETA	ILS	

(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

TORQUE CONVERTER			MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)		
Туре	Includes standard int	One stage, three element, polyphase. egral damper which is operational in lockup.	Range		
	Model	Stall Torque Ratio	First	3.10 : 1	
	TC-210	2.05	Second	1.81 : 1	
	TC-211	1.91	Third	1.41 : 1	
	TC-221	1.73	Fourth	1.00 : 1	
	TC-222	1.58	Fifth	0.71 : 1	
			Sixth	0.61 : 1	
			Reverse	-4.49 : 1	

CONTROL SYSTEM	Λ			
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 Protocol - Engine/Vehicle Systems Interface		SAE J1939, IESCAN, PT-CAN		

	Installation Length*	Dry Weight	Depth below trans With Shallow Oil Sump	smission centerline With Deep Oil Sump
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 out	put flange type)		
TURBINE-DRIVEN	POWER TAKE-OFF PROVISION			
PTO drive			Torque conve	erter turbine-driven spur gea
PTO mounting pads			Six-bolt, 3 o'clock and 9 o'clock po	ositions (as viewed from real
PTO drive gear rating	(continuous operation)			Using one PTO: 339 N•r
			Tot	al using two PTO's: 271 N•r
PTO drive gear ratio				1.00 x turbine spee
PTO drive gear				64 toot
PARK PAWL*				
*Excluding refuse voo	cation			
OIL SYSTEM				
Allison approved fluid	ds: TES 295 and TES 389			
Capacity, excluding ex	xternal circuits			
	With Deep Oil Pan			14 litre
	With Shallow Oil Pan			12 litre
Spin on canister filter				Standar

SPEEDOMETER P	ROVISION	TACHOGRAPH PROVISION	
Description	Non-zero-crossing square wave	Tone wheel	6-tooth
8, 16 or 40) pulses per revolution of transmission output shaft	Mounting	M18 x 1.5 metric thread
Location	Electronic output from TCM	Location	Transmission rear cover

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