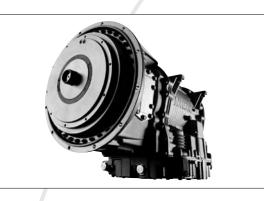


T325 (R) specification

For Applications with engines up to 220 kW (295 hp) gross input (885 lb-ft) gross input torque.



GVW kg (lbs)

29,000 (62,830)

27,000 (57,320)

Vocations

City Bus

Tour Coach

2000 – 2800 rpm

500 – 800 rpm

3600 rpm

RATINGS			
	Input Torque Gross N∙m (Ib-ft)	Input Power Gross ⁽¹⁾ Kw (hp)	Turbine Torque N∙m (lb-ft
City Bus	1200 (885)	213 (285)	1857 (1370
Tour Coach	1200 (885)	220 (295)	2030 (1497
(1). Gross Power rating as de	fined by ISO 1585 or SAE J1995. (2). Turbine	Torque limit based on iSCAAN	standard deductions.
DRIVETRAIN INTER	RFACES		
Acceptable full-load en	ngine governed speed		
Acceptable engine idle	e speed range (with transmission in	Drive)	
Maximum output shaf	t speed at 105 km/hr (65 mi/hr) - re	etarder-equipped models	only
MOUNTING			
To Engine		SAE No	p.2
In Chassis		Rear su	upport available (

Rear support available (required for some installations)

Turbine Torque Net⁽²⁾ N∙m (lb-ft)

1857 (1370)

2030 (1497)

TORQUE CONVERTER		MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)		
Type One stage, three element, polyphase. Includes standard integral damper which is operational in lockup.			Range	
	Model	Stall Torque Ratio	First	3.49 : 1
	TC-411	2.71	Second	1.86 : 1
	TC-413	2.44	Third	1.41 : 1
	TC-415	2.35	Fourth	1.00 : 1
	TC-417	2.20	Fifth	0.75 : 1
	TC-418	1.98	Sixth	0.65 : 1
	TC-419	2.02	Reverse	-5.03 : 1
	TC-421	1.77		

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)]				
	City Bus	Tour Coach			
	Standard: 1C-[1L]-2C-2L-3L-4L-5L	Standard: 1C-[1L]-2C-2L-3L-4L-5L			
	Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L	Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L			
	Optional: 1C-[1L]-2C-2L-3L-4L	Optional: 1C-[1L]-2C-2L-3L-4L			
TCM must be calibrated for "1L" option. Second-gear-start calibrations are not available for all vehicle applications.					
Driver-to-Transmission Interface Cab-mounted shift selector, pushbutton or lever with two-digit display (range selected and range attained)					
Communication Protocol - Engine/Vehicle Systems Interface SAE J1939, SAE J1587, ISO 9141, IESCAN					

PHYSICAL DESCRIPTION				
	Installation Length*	Dry Weight	Depth below tran With Deep Oil Sump (Optional)	nsmission centerline With Shallow Oil Sump (Standard)
Basic Model	740 mm (29 in)	243 kg (535 lbs)	283 mm (11.4 in)	328 mm (12.9 in)
With Retarder	740 mm (29 in)	289 kg (615 lbs)	283 mm (11.4 in)	328 mm (12.9 in)

output flange (depending on output flange type)

OUTPUT R	ETARDER PROVISION (OPTI	ON)	OIL SYSTEM		
Туре	Type Integral, hydraulic		Allison approved fluids: TES 295 and TES 389		
Capacity		Capacity, excluding extern	nal circuits		
	Torque	Power	With Deep Oil Sun	np 27 litres (29 quarts)	
Low	1490 N∙m (1100 lb-ft)	298 kW (400 hp)	With Shallow Oil S	Sump 25 litres (26 quarts)	
Medium	1763 N∙m (1300 lb-ft)	373 kW (500 hp)	Main circuit oil filter	Replaceable element, integral	
			Cooler circuit oil filter	Replaceable element, integral	
			Electronic oil level sensor	(OLS) Standard	
SPEEDOMETER PROVISION		TACHOGRAPH PROVI	SION		
Description Non-zero-crossing square wave 8, 16 or 40 pulses per revolution of transmission output shaft Location Electronic output from TCM		Tone wheel Mounting Location	4 or 6-tooth M18 x 1.5 metric thread Transmission rear cover or retarder housing		

T325

