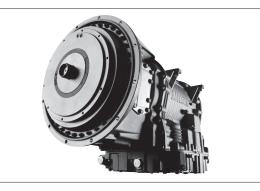


## T270 (R) specification

For Applications with engines up to 179 kW (240 hp) gross input power and up to 900 N $\bullet$ m gross input torque.

## RATINGS



RATINGS	Gross Input Torque	Gross Input Power <sup>(1)</sup>	GVW	Vocations
	N•m	kW (hp)	kg	vocations
City Bus	900	179 (240)	24,000	City Bus
Tour Coach	900	179 (240)	24,000	Tour Coach
(1). Gross Power rating as d	efined by ISO 1585 or SAE J1995.			
DRIVETRAIN INTE	RFACES			
Acceptable full-load e	1950 – 2800 rpm			
	e speed range (with transmission in Drive)			500 – 800 rpm
Maximum output sha	ft speed at 105 km/hr - retarder-equipped m	odels only		3600 rpm
MOUNTING				
To Engine		SAE No.2		
In Chassis		Rear support availa	ble (required for some	installations)
TORQUE CONVERT	ſER	MECHANICAL	RATIOS (Gear ratios do no	t include torque converter multiplication
Туре	One stage, three element, poly			
	standard integral damper which is operational in			
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	1			
Description	Allison 5th Generation Electronic Controls wit	th closed loop adaptive shifts		
Shift Sequences	[C = Converter mode (lockup clutch disengag	ed); L = Lockup mode (lockup c	lutch engaged)]	
	City Bus	Tour Coach		
	Standard: 1C–[1L]–2C–2L–3L–4L	Standard: 1C–[1L]–2C	-2L-3L-4L-5L	
	Optional: 1C-[1L]-2C-2L-3L-4L-5L	Optional: 1C–[1L]–2C		
	for "1L option. Second-gear-start calibrations are			
Driver-to-Transmissi		, pushbutton or lever with two-d	5 1 5 5	d and range attained)
Communication Pro	tocol - Engine/Vehicle Systems Interface	SAE J1939, IESCAN, P	T-CAN	

PHYSICAL DESCRIPTION	Installation Length*	Dry Weight	Depth below tra	nsmission centerline
	<b>y</b>	,	With Deep Oil Sump (Standard)	With Shallow Oil Sump (Optional)
Basic Model	738 mm	243 kg	274 mm	283 mm
With Retarder	738 mm	279 kg	274 mm	283 mm

\*Approximate length from engine housing to output flange (depending on output flange type)

OUTPUT RET	ARDER PROVISION (OF	PTION)	OIL SYSTEM		
Туре		Integral, hydraulic	Allison approved fluids: TES 295 and TES 389		
Capacity		Capacity, excluding external circuits			
	Torque	Power	With Deep Oil Sump	27 litres	
Low	1490 N∙m	298 kW (400 hp)	With Shallow Oil Sump	25 litres	
Medium	1763 N∙m	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 PROVISION			
Description 8, 16		on-zero-crossing square wave n of transmission output shaft	Tone wheel Mounting	4 or 6-tooth M18 x 1.5 metric thread	
Location		Electronic output from TCM	Location Tran	smission rear cover or retarder housing	

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