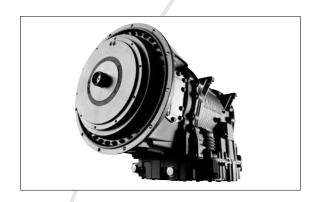


T280 (R) specification

For Applications with engines up to 194 kW (260 hp) gross input power and up to 1000 N•m (738 lb-ft) gross input torque.



	Input Torque Gross N•m (lb-ft)	Input Power Gross ⁽¹⁾ Kw (hp)	Turbine Torque Net ⁽²⁾ N∙m (lb-ft)	GVW kg (lbs)	Vocations
City Bus	1000 (738)	194 (260)	1857 (1370)	24,000 (52,911)	City Bus
Tour Coach	1000 (738)	194 (260)	2030 (1497)	24,000 (52,911)	Tour Coach

DRIVETRAIN INTERFACES	
Acceptable full-load engine governed speed	2000 – 2800 rpm
Acceptable engine idle speed range (with transmission in Drive)	500 – 800 rpm
Maximum output shaft speed at 105 km/hr (65 mi/hr) - retarder-equipped models only	3600 rpm

MOUNTING	
_To Engine	SAE No.2
In Chassis	Rear support available (required for some installations)

TORQUE CONVERTER			
Туре	One stage, three element, polyphase. Includes standard integral damper which is operational in lockup.		
	Model	Stall Torque Ratio	
	TC-411	2.71	
	TC-413	2.44	
	TC-415	2.35	
	TC-417	2.20	
	TC-418	1.98	
	TC-419	2.02	
	TC-421	1.77	

	CAL RATIOS (Gear ratios	s do not include torque converter multiplication
Range		
	First	3.49 : 1
	Second	1.86 : 1
	Third	1.41 : 1
	Fourth	1.00 : 1
	Fifth	0.75 : 1
	Sixth	0.65 : 1
	Reverse	-5.03 : 1

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 Depth below transmission centerline With Shallow Oil Sump (Standard) With Deep Oil Sump (Optional) Installation Length* **Dry Weight 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) *Approximate length from engine housing to output flange (depending on output flange type)

OUTPUT RETARDER PROVISION (OPTION)

Type Integral, hydraulic

	Capacity	
	Torque	Power
Low	1490 N•m (1100 lb-ft)	298 kW (400 hp)
Medium	1763 N•m (1300 lb-ft)	373 kW (500 hp)

OIL 2421EIM		
Allison approved fluids: TES 295 and TES 389		
Capacity, excluding external circuits		
With Deep Oil Sump	27 litres (29 quarts)	
With Shallow Oil Sump	25 litres (26 quarts)	
Main circuit oil filter	Replaceable element, integral	
Cooler circuit oil filter	Replaceable element, integral	
Electronic oil level sensor (OLS)	Standard	

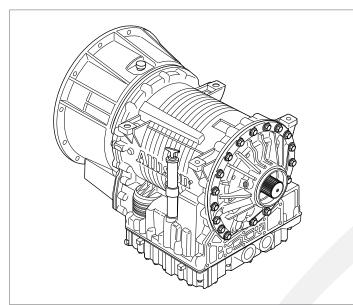
SPEEDOMETER PROVISION

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 4 or 6-tooth Mounting M18 x 1.5 metric thread Location Transmission rear cover or retarder housing

T280



T280 (R)

