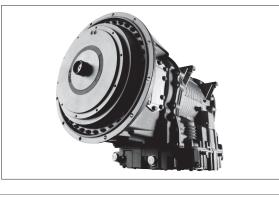


T280 (R) specification

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



RATINGS								
	Gross Input Torque Gro N∙m	oss Input Power ⁽¹⁾ kW (hp)	GVW kg	Vocations				
City Bus	1000	194 (260)	24,000	City Bus				
Tour Coach	1000	194 (260)	24,000	Tour Coach				
(1). Gross Power rating as de	(1). Gross Power rating as defined by ISO 1585 or SAE J1995.							
DRIVETRAIN INTER	FACES							
Acceptable full-load en	1950 – 2800 rpm							
Acceptable engine idle	speed range (with transmission in Drive)			500 – 800 rpm				
Maximum output shaft	t speed at 105 km/hr - retarder-equipped models	only		3600 rpm				
MOUNTING								
To Engine		SAE No.2						
In Chassis	· ·							
TORQUE CONVERTER MECHANICAL RATIOS (Gear ratios do not include torque converter multip								
Туре	One stage, three element, polyphase andard integral damper which is operational in lockup	. Range		, , , , , , , , , , , , , , , , , , , ,				
		-	First	2.40.1				
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 5th 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]–2	C-2L-3L-4L-5L					
	Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L	Optional: 1C–[1L]–20						
	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, IESCAN, PT-CAN								
Communication Prot	ocol - Engine/venicie Systems Interface	SAE J1939, IESCAN, F	1-LAN					

PHYSICAL DESCRIPTION	Installation Length*	Dry Weight	Depth below trans	mission centerline
	5	, ,	With Shallow Oil Sump (Standard)	With Deep Oil Sump (Optional)
Basic Model	738 mm	243 kg	274 mm	328 mm
With Retarder	738 mm	279 kg	274 mm	328 mm

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

OUTPUT RETARDER PROVISION (OPTION)			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		on-zero-crossing square wave	Tone wheel	4 or 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 Tran	smission rear cover or retarder housing	

T280



