

TRANSMISSION RATINGS — 3000 PRODUCT FAMILY —

ALLISON ON-HIGHWAY TRANSMISSIONS

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1.0 MODELS AND RATINGS

1.1 TRANSMISSION MODEL NAMES

The 3000 Product Family is comprised of several individual transmission models. The names of most transmission models consist of two elements, the base model number and the vocational model name or series. For a description, refer to <u>Transmission Families and Models</u>.

1.2 NOTES REGARDING INFORMATION IN THIS DOCUMENT

The following common items are applicable to all tables in this document.

- 1. Values in U.S. units shown in parenthesis () are for reference only. Conversions between metric and U.S. units are not necessarily exactly equivalent.
- 2. Gross power rating as defined by ISO 1585 or SAE J1995.
- 3. Turbine Torque limit based on *iSCAAN* standard deductions.
- 4. Refer to <u>Technical Document (TD) 180-2, Vocational Compatibility for Allison On-Highway Transmissions</u>, to determine which rating applies to your vocation.
 - For example, a 3000 RDS model used in a front-loader landfill refuse truck uses the refuse rating. That same transmission model used in a concrete mixer in the construction service category will use the concrete mixer rating.

2.0 BUS MODELS

			2.1	3295						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus	171	841	1857	14,968	14,968	1900	2800	500 *	800	n/a
	(230)	(620)	(1370)	(33,000)	(33,000)		* 600	rpm if dual	PTOs are use	ed simultaneously

			2.2	B300						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus /	209	997	1857	17,236	17,236	4000	0000	F00 *	000	2000
Tour Coach	(280)	(735)	(1370)	(38,000)	(38,000)	1900	2800	500 *	800	3600
				•			* 600	rpm if dual I	PTOs are use	ed simultaneously

			2.3	B400						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus	224	1254	1857	20,412	20,412	1900	2800	500 *	800	3600
ITAIISIL BUS	(300)	(925)	(1370)	(45,000)	(45,000)	1900	2000	500	000	3600
Tour Coach	246	1356	2170	20,412	20,412	1900	2800	500 *	800	3600
Tour Coach	(330)	(1000)	(1600)	(45,000)	(45,000)	1900	2000	500	000	3000
						•	* 600	rpm if dual I	PTOs are use	d simultaneously

			2.4 B340	00 xFE ^τ	М					
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus	224	1254	1857	20,412	20,412	1900	2800	500 *	800	3600
Transit bus	(300)	(925)	(1370)	(45,000)	(45,000)	1900	2000	300	000	3000
							* 600	rpm if dual I	PTOs are use	ed simultaneously

3.0 EVS (Emergency Vehicle Series)

			3.1 30	00 EVS						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Emergency Vehicles	336 (450)	1695 (1250)	2305 (1700)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
							* 600	rpm if dual l	PTOs are use	ed simultaneously

					3.2 350	00 EVS						
Rating	Gross Input Power kW (hp)		Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Emergency Vehicles without	246		1335		2034	n/a	n/a	1900	2800	500 *	800	3600
SEM / LRTP	(330)		(985)		(1500)	n/a	n/a					
Emergency		1 st Gear		Gears 2-6								
Vehicles with	246	1335		1424	2034	n/a	n/a	1900	2800	500 *	800	3600
SEM / LRTP	(330)	(985)		(1050)	(1500)	n/a	n/a	.500	_500	550	200	2300
									* 600	rpm if dual	PTOs are use	d simultaneously

4.0 HS (Highway Series)

				4.1 30	00 HS						
Rating	Gross Input Power kW (hp)	Gross Inpu Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
		All Gear Range	es								
Highway without SEM / LRTP	276	1491		2169	36,288	36,288	1900	2800	500	800	3600
SLW/ LKTI	(370)	(1100)		(1600)	(80,000)	(80,000)	1900	2800	500	800	3600
		Gears 1-2	Gears 3-6								
Highway with SEM / LRTP	276	1491	1695	2169	36,288	36,288	1900	2800	500	900	2000
OLW/ LITT	(370)	(1100)	(1250)	(1600)	(80,000)	(80,000)	1900	∠600	500	800	3600

5.0 MH (Motor Home Series)

			5.1 30	00 MH						
	Gross Input Power	Gross Input Torque	Net Turbine Torque	GVW	GCW		d Engine ed Speed	_	dle Speed Orive	Output Speed (Retarder Only)
Rating	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm	max rpm
Motor Home	336	1695	2305	n/a	n/a	1900	2800	500 *	800	3600
Wotor Home	(450)	(1250)	(1700)	n/a	n/a	1900	2000	300	800	3000
	•		•			•	* 600	rpm if dual	PTOs are use	ed simultaneously

6.0 OFS (Oil Field Series)

	Gross Input Power		Gross Input Torque		Net Turbine Torque	GVW	GCW		d Engine ed Speed		dle Speed Drive	Output Spee (Retarder Only
Rating	kW (hp)		Nm (lb-ft)		Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm	max rpm
			All Gear Ranges									
Oil Field without SEM / LRTP	246		1166		1966	n/a	n/a	1900	2800	500 *	800	3600
OLIVI, LICTI	(330)		(860)		(1450)	n/a	n/a	1900	2000	300	800	3000
		Gears 1-2		Gears 3-6								
Oil Field with SEM / LRTP	246	1166		1335	1966	n/a	n/a	1900	2800	500 *	800	3600
OLW, LITT	(330)	(860)		(985)	(1450)	n/a	n/a	1900	2000	300	000	3600

7.0 ORS (Off-Road Series)

			7.1 300	00 ORS						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Articulated	186	900	2135	44,500	n/a	1900	2800	500 *	800	2000
Dump	(250)	(664)	(1575)	(98,100)	n/a	1900	2000	500	600	3600
Digid Deer Down	186	900	2135	44,500	n/a	1900	2800	500 *	800	3600
Rigid Rear Dump	(250)	(664)	(1575)	(98,100)	n/a	1900	2000	300	600	3600
							* 600	rpm if dual I	PTOs are use	d simultaneously

			7.2 320	00 ORS						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only)
Rating	KVV (IIP)	· /	Mili (ID-It)	rg (ibs)	rg (ibs)	mm rpm	max i pin	min i pin	max i pin	max rpm
Articulated	224	1100	2135	44,500	n/a	1900	2800	500 *	800	3600
Dump	(300)	(811)	(1575)	(98,100)	n/a	1300	2000	300	000	3000
Digid Deer Dumn	224	1100	2135	44,500	n/a	1000	2000	F00 *	900	2600
Rigid Rear Dump	(300)	(811)	(1575)	(98,100)	n/a	1900	2800	500 *	800	3600
							* 600	rpm if dual	PTOs are use	ed simultaneously

			7.3 350	00 ORS							
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm	
Articulated	246	1100	1925	44,500	n/a	4000	0000	F00 *	000	2000	
Dump	(330)	(811)	(1420)	(98,100)	n/a	1900	2800	500 *	800	3600	
Distil Dees Dees	246	1100	1925	44,500	n/a	4000	0000	500 *	000	2000	
Rigid Rear Dump	(330)	(811)	(1420)	(98,100)	n/a	1900	2800	500 *	800	3600	
	* 600 rpm if dual PTOs are used simultaneously										

8.0 PTS (Pupil Transportation / Shuttle Series)

			8.1 30	00 PTS						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
School Bus	224	1288	1995	n/a	n/a	1900	2800	500	800	3600
School Bus	(300)	(950)	(1470)	n/a	n/a	1900	2000	300	000	3600
Shuttle Bus	224	1288	1995	15,500	15500	1900	2800	500	800	2600
Snuttle bus	(300)	(950)	(1470)	(33,000)	(33,000)	1900	2800	500	800	3600
			•			•		•		•

9.0 RDS (Rugged Duty Series)

					9.1 300	00 RDS						
Rating without SEM / LRTP	Gross Input Power kW (hp)		Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Governe	d Engine ed Speed max rpm	in C	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
			All Gear Ranges									
On/Off-Highway	276		1491		2169	36,288	36,288	1900	2800	500 *	000	3600
	(370)		(1100)		(1600)	(80,000)	(80,000)	1900	2800	500	800	3600
Refuse	276		1491		2169	28,123	n/a	1900	2800	500 *	800	3600
Refuse	(370)		(1100)		(1600)	(62,000)	n/a	1900	2800	500	800	3600
Concrete Mixer	276		1491		2169	28,123	n/a	1900	2800	500 *	800	3600
Concrete Mixer	(370)		(1100)		(1600)	(62,000)	n/a	1900	2000	500	000	3600
Specialty PTO	276		1695		2305	n/a	n/a	1900	2800	500 *	800	3600
Specialty F10	(370)		(1250)		(1700)	n/a	n/a	1900	2800	500	800	3600
Heavy Equipment	276		1695		2305	n/a	n/a	1900	2800	500 *	800	3600
Transport	(370)		(1250)		(1700)	n/a	n/a					
Rating with SEM / LRTP	Gross Input Power kW (hp)		Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Governe	d Engine ed Speed max rpm	in C	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
		Gears 1-2		Gears 3-6								
On/Off-Highway	276	1491		1695	2169	36,288	36,288	1900	2800	500 *	800	3600
	(370)	(1100)		(1250)	(1600)	(80,000)	(80,000)	1900	2800	500	800	3600
Refuse	276	1491		1695	2169	28,123	n/a	1900	2800	500 *	800	3600
Veinze	(370)	(1100)		(1250)	(1600)	(62,000)	n/a	1900	2800	500	800	3000
Concrete Mixer	276	1491		1695	2169	28,123	n/a	1900	2800	500 *	800	3600
Concrete wixer	(370)	(1100)		(1250)	(1600)	(62,000)	n/a	1900	2800	500	800	3000
	•							•	* 600	rpm if dual I	PTOs are use	ed simultaneously

9.0 RDS (Rugged Duty Series) continued

					9.2 350	00 RDS						
Rating without SEM / LRTP	Gross Input Power kW (hp)		Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Governe	d Engine ed Speed max rpm	in D	lle Speed rive max rpm	Output Speed (Retarder Only max rpm
			All Gear Ranges						*	-	•	
On/Off-Highway	246		1166		1925	36,288	36,288	1900	2800	500 *	800	3600
	(330)		(860)		(1420)	(80,000)	(80,000)	1900	2000	500	800	3000
Refuse,	246		1166		1925	27,216	n/a	1900	2800	500 *	800	3600
Concrete Mixer	(330)		(860)		(1420)	(60,000)	n/a	1900	2000	300	000	3000
Specialty PTO	246		1288		1966	n/a	n/a	1900	2800	500 *	800	3600
Specialty F10	(330)		(950)		(1450)	n/a	n/a	1900	2000	300	800	3000
Heavy Equipment	246		1335		1966	n/a	n/a	1900	2800	500 *	800	3600
Transport	(330)		(985)		(1450)	n/a	n/a					
Rating with SEM / LRTP	Gross Input Power kW (hp)		Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Governe	d Engine ed Speed max rpm	_	dle Speed Prive max rpm	Output Speed (Retarder Only) max rpm
		1st Gear		Gears 2-6							-	
On/Off-Highway	246	1166		1424	1966	36,288	36,288	1900	2800	500 *	800	3600
	(330)	(860)		(1050)	(1450)	(80,000)	(80,000)	1900	2800	500 "	800	3600
Specialty PTO	246	1288		1424	1966	n/a	n/a	1900	2800	500 *	800	3600
Specially FTO	(330)	(950)		(1050)	(1450)	n/a	n/a	1900	2800	500	800	3000
Heavy Equipment	246	1335		1424	1966	n/a	n/a	1900	2800	500 *	800	3600
Transport	(330)	(985)		(1050)	(1450)	n/a	n/a					

10.0 RHS (Regional Haul Series)

						10.1 34	14 RHS						
Rating	Gross Input Power kW (hp)		Tor	s Input que (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Governe	d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Highway without SEM / LRTP	306 (410)		14	r Ranges 191 100)		2305 (1700)	n/a n/a	37,194 (82,000)	1900	2800	500 *	800	3600
Highway with SEM / LRTP	306 (410)	Gear 1 1491 (1100)	Gear 2 1695 (1250)	Gears 3-4 1763 (1300)	Gears 5-6 1966 (1450)	2305 (1700)	n/a n/a	37,194 (82,000)	1900	2800	500 *	800	3600

11.0 SPS (Specialty Series)

			11.1 3	000 SP						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Specialty / Military	261 (350)	1424 (1050)	2305 (1700)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
							* 600	rpm if dual I	PTOs are use	ed simultaneously

			11.2 3	200 SP							
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm	
Specialty /	336	1695	2305	n/a	n/a	4000	0000	500 *	000	2000	
Military	(450)	(1250)	(1700)	n/a	n/a	1900	2800	500 *	800	3600	
	* 600 rpm if dual PTOs are used simultaneously										

			11.3 3	500 SP						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Specialty /	246	1335	2034	n/a	n/a	4000	0000	500 *	000	
Military	(330)	(985)	(1500)	n/a	n/a	1900	2800	500 *	800	3600
	* 600 rpm if dual PTOs are used simultaneously									

			11.4 3	700 SP						
	Gross Input Power	Gross Input Torque	Net Turbine Torque	GVW	GCW		d Engine ed Speed	_	dle Speed Orive	Output Speed (Retarder Only)
Rating	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm	max rpm
Specialty /	246	1186	1996	n/a	n/a	1900	2800	500 *	800	n/a
Military	(330)	(875)	(1450)	n/a	n/a	1300	2000	300	000	11/4
	•			•	•	•	* 600) rpm if dual I	PTOs are use	ed simultaneously

12.0 T (Torqmatic Series)

			12.1	T260						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Prive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus (Front	157	780	1857	17,000	17,000	1900	2800	500 *	800	3600
Engine Only)	(210)	(575)	(1370)	(37,478)	(37,478)	1900	2800	500	800	3600
Tour Coach (Front	157	780	1857	17,000	17,000	1900	2800	500 *	800	3600
Engine Only)	(210)	(575)	(1370)	(37,478)	(37,478)	1900	2000	300	300	3000
			•	•		•	* 600	rpm if dual I	PTOs are use	ed simultaneously

			12.2	T270							
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm	
Transit Bus	179	900	1857	24,000	24,000	1900	2800	500 *	800	3600	
ITAIISIL BUS	(240)	(664)	(1370)	(52,911)	(52,911)	1900	2000	500	000	3600	
Tour Coach	179	900	2030	24,000	24,000	1900	2800	500 *	800	3600	
Tour Coach	(240)	(664)	(1497)	(52,911)	(52,911)	1900	2000	300	000	3000	
	* 600 rpm if dual PTOs are used simultaneously										

			12.3 T32	70 xFE	ГМ						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm	
Transit Bus	179	900	1857	24,000	24,000	1900	2800	500 *	800	3600	
ITAIISIL DUS	(240)	(664)	(1370)	(52,911)	(52,911)	1900	2000	500	000	3600	
Tour Coach	179	900	2030	24,000	24,000	1900	2800	500 *	800	3600	
Tour Coach	(240)	(664)	(1497)	(52,911)	(52,911)	1900	2000	500	600	3600	
	* 600 rpm if dual PTOs are used simultaneously										

12.0 T (Torqmatic Series) continued

			12.4	T280						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Governe	d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Ruting	194	1000	1857	24.000	24.000					max rpm
Transit Bus	194	1000	1657	24,000	24,000	1900	2800	500 *	800	3600
	(260)	(738)	(1370)	(52,911)	(52,911)					
Tour Coach	194	1000	2030	24,000	24,000	1900	2800	500 *	800	3600
Tour Coach	(260)	(738)	(1497)	(52,911)	(52,911)	1900	2000	500	600	3600
							* 600	rpm if dual l	PTOs are use	ed simultaneously

			12.5 T32	80 xFE	гм					
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
	194	1000	1857	24.000	24.000			•	•	
Transit Bus	(260)	(738)	(1370)	(52,911)	(52,911)	1900	2800	500 *	800	3600
T	194	1000	2030	24,000	24,000	4000				
Tour Coach	(260)	(738)	(1497)	(52,911)	(52,911)	1900	2800	500 *	800	3600
			•				* 600	rpm if dual	PTOs are use	d simultaneously

			12.6	T310						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus	205	1100	1857	28,500	28,500	1900	2800	500 *	800	3600
Transit bus	(275)	(813)	(1370)	(62,830)	(62,830)	1900	2000	300	000	3000
Tour Coach	205	1100	2030	26,000	26,000	1900	2800	500 *	800	3600
Tour Gouch	(275)	(813)	(1497)	(57,320)	(57,320)	1300	2000	300	000	3000
							* 600	rpm if dual l	PTOs are use	d simultaneously

12.0 T (Torqmatic Series) continued

			12.7	T325						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus	213	1200	1857	29,000	29,000	1900	2800	500 *	800	3600
Transit bus	(285)	(885)	(1370)	(63,934)	(63,934)	1900	2000	300	000	3000
Tour Coach	220	1200	2030	27,000	27,000	1900	2800	500 *	800	3600
Tour Gouch	(295)	(885)	(1497)	(59,525)	(59,525)	1300	2000	300	000	3000
							* 600	rpm if dual	PTOs are use	d simultaneously

			12.8 T33	25 xFE	тм					
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
	213	1200	1857	29,000	29,000	4000		500 *		•
Transit Bus	(285)	(885)	(1370)	(63,934)	(63,934)	1900	2800	500 *	800	3600
Tour Coach	220	1200	2030	27,000	27,000	1900	2800	500 *	800	3600
Tour Coach	(295)	(885)	(1497)	(59,525)	(59,525)	1900	2800	500	800	3600
	-					-	* 600	rpm if dual I	PTOs are use	ed simultaneously

			12.9	T350						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus	224	1254	1857	29,000	29,000	1900	2800	500 *	800	3600
ITAIISIL DUS	(300)	(925)	(1370)	(63,934)	(63,934)	1900	2000	500	000	3600
Tour Coach	242	1350	2030	27,000	27,000	1900	2800	500 *	800	3600
Tour Coacii	(325)	(996)	(1497)	(59,525)	(59,525)	1300				
i							* 600) rpm if dual I	PTOs are use	ed simultaneously

12.0 T (Torqmatic Series) continued

			12.10	T375						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus	268	1450	2170	29,000	29,000	1900	2800	500 *	800	3600
Transit bus	(360)	(1069)	(1600)	(63,934)	(63,934)	1900	2000	300	800	3000
Tour Coach	268	1450	2170	27,000	27,000	1900	2800	500 *	800	3600
	(360)	(1069)	(1600)	(59,525)	(59,525)	1300				d simultaneously

			12.11 T3	375 xFE	тм					
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
•	268	1450	2170	29,000	29,000	4000		F00 #		
Transit Bus	(360)	(1069)	(1600)	(63,934)	(63,934)	1900	2800	500 *	800	3600
Tour Coach	268	1450	2170	27,000	27,000	1900	2800	500 *	800	3600
Tour Coacii	(360)	(1069)	(1600)	(59,525)	(59,525)	1300	2000	300	000	3000
	•		•			•	* 600	rpm if dual	PTOs are use	ed simultaneously

			12.12	T390						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Transit Bus	283	1650	2170	29,000	29,000	4000	0000	500 *	000	2000
with SEM / LRTP	(380)	(1217)	(1600)	(63,934)	(63,934)	1900	2800	500 *	800	3600
Tour Coach	283	1650	2170	27,000	27,000	1900	2800	500 *	800	3600
with SEM / LRTP	(380)	(1217)	(1600)	(59,525)	(59,525)	1300				
							* 600) rpm if dual I	PTOs are use	ed simultaneously

13.0 TRV (Truck-Based Recreational Vehicle Series)

			13.1 30	00 TRV	,					
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Truck-Based Recreational Vehicle	231 (310)	1288 (950)	2305 (1700)	n/a n/a	18,144 (40,000)	1900	2800	500 *	800	3600
70111010	(0.0)	(000)	(1100)	11/4	(10,000)		* 600	l) rom if dual f	PTOs are use	l ed simultaneously

			13.2 32	00 TRV						
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
Truck-Based Recreational	336	1627	2305	n/a	n/a	1900	2800	500 *	800	3600
Vehicle without SEM / LRTP	(450)	(1200)	(1700)	n/a	n/a	1300	2000	300	000	3000
Truck-Based Recreational	336	1695	2305	n/a	n/a	1900	2800	500 *	800	3600
Vehicle with SEM / LRTP	(450)	(1250)	(1700)	n/a	n/a	1900				ed simultaneously

14.0 International Models

		14.1 3	000 Inter	nationa	al Series	5				
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Orive max rpm	Output Speed (Retarder Only) max rpm
General	254 (340)	1261 (930)	2169 (1600)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
Refuse, Concrete Mixer	239 (320)	1186 (875)	2169 (1600)	28,500 (62,832)	n/a n/a	1900	2800	500 *	800	3600
Fire Truck, Emergency	261 (350)	1424 (1050)	2305 (1700)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
Dock Spotter, Tow Tractor	246 (330)	1261 (930)	2169 (1600)	n/a n/a	36,288 (80,000)	1900	2800	500 *	800	3600
School Bus - Outside N.A.	224 (300)	1254 (925)	1857 (1370)	20,415 (45,000)	20,415 (45,000)	1900	2800	500 *	800	3600
Ag Spreader, Sprayer, Blower, Feedlot Truck	235 (315)	1288 (950)	2305 (1700)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
	11					l	* 600	rpm if dual f	PTOs are use	ed simultaneously

14.2 3000 xFE International Series **Gross Input Gross Input Net Turbine Full Load Engine** Engine Idle Speed **Output Speed** Power Torque Torque **GVW** GCW **Governed Speed** in Drive (Retarder Only) Nm (lb-ft) Nm (lb-ft) kW (hp) kg (lbs) kg (lbs) min rpm max rpm min rpm max rpm Rating max rpm 254 1261 2169 n/a n/a General 1900 2800 500 * 800 3600 (930)(340)(1600)n/a n/a 1186 239 28.500 Refuse, 2169 n/a 1900 2800 500 * 800 3600 Concrete Mixer (875)(320)(1600)(62,832)n/a Fire Truck, 261 1424 2305 n/a n/a 500 * 1900 2800 800 3600 Emergency (350)(1050)(1700)n/a n/a 246 1261 2169 n/a 36,288 Dock Spotter, 500 * 1900 2800 800 3600 Tow Tractor (330)(930)(1600)n/a (80,000)1254 224 1857 20,415 20,415 School Bus -500 * 1900 2800 800 3600 Outside N.A. (300)(925)(1370)(45,000)(45,000)Ag Spreader, 1288 235 2305 n/a n/a Sprayer, Blower, 1900 2800 500 * 800 3600 Feedlot Truck (950)(315)(1700)n/a n/a

* 600 rpm if dual PTOs are used simultaneously

14.0 International Models continued

14.3 3200 International Series												
Rating without SEM / LRTP	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		Engine Idle Speed in Drive min rpm max rpm		Output Speed (Retarder Only) max rpm	
General	276 (370)		1491 (1100)		2169 (1600)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
Refuse, Concrete Mixer	276 (370)		1491 (1100)		2169 (1600)	28,500 (62,832)	n/a n/a	1900	2800	500 *	800	3600
Fire Truck, Emergency	336 (450)		1695 (1250)		2305 (1700)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
Dock Spotter, Tow Tractor	276 (370)		1491 (1100)		2169 (1600)	n/a n/a	36,288 (80,000)	1900	2800	500 *	800	3600
Ag Spreader, Sprayer, Blower, Feedlot Truck	276 (370)		1695 (1250)		2305 (1700)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
Rating with SEM / LRTP	Gross Input Power kW (hp)		Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		Engine Idle Speed in Drive min rpm max rpm		Output Speed (Retarder Only) max rpm
General	276 (370)	Gears 1-2 1491 (1100)		Gears 3-6 1695 (1250)	2169 (1600)	n/a n/a	n/a n/a	1900	2800	500 *	800	3600
Refuse, Concrete Mixer	276 (370)	1491 (1100)		1695 (1250)	2169 (1600)	28,500 (62,832)	n/a n/a	1900	2800	500 *	800	3600
Dock Spotter, Tow Tractor	276 (370)	1491 (1100)		1695 (1250)	2169 (1600)	n/a n/a	36,288 (80,000)	1900	2800	500 *	800	3600

14.4 3200 xFE International Series **Gross Input Gross Input Net Turbine Full Load Engine** Engine Idle Speed **Output Speed** Power **GVW** GCW Rating with Torque Torque **Governed Speed** in Drive (Retarder Only) SEM/LRTP kW (hp) Nm (lb-ft) Nm (lb-ft) min rpm max rpm kg (lbs) kg (lbs) min rpm max rpm max rpm Gears 3-6 Gears 1-2 General 276 2169 1695 n/a n/a 1491 500 * 1900 2800 800 3600 (370)(1250) (1600)n/a n/a (1100)276 2169 28,500 n/a Refuse, 1491 1695 1900 2800 500 * 800 3600 Concrete Mixer (370)(1600)(62,832)n/a (1100)(1250)336 2305 Fire Truck, n/a n/a 1491 1695 1900 2800 500 * 800 3600 Emergency (450)(1700)n/a n/a (1100)(1250)276 2169 n/a 36,288 Dock Spotter, 1491 1695 1900 2800 500 * 800 3600 **Tow Tractor** (370)(1600)n/a (80,000)(1100)(1250)Ag Spreader, 276 2305 n/a n/a 1491 1695 Sprayer, Blower, 1900 2800 500 * 800 3600 (370)(1700)n/a n/a Feedlot Truck (1100)(1250)* 600 rpm if dual PTOs are used simultaneously

14.0 International Models continued

				14.5	3500 Inter	nationa	al Serie	S				
Rating without SEM / LRTP	Gross Input Power kW (hp)		Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Governe	d Engine ed Speed max rpm	in C	dle Speed Prive max rpm	Output Speed (Retarder Only) max rpm
General	246		1166		1925	n/a	n/a	1900	2800	500 *	800	3600
Scricial	(330)		(860)		(1420)	n/a	n/a	1300	2000	500	000	3000
Refuse,	246		1166		1925	27,216	n/a	1900	2800	500 *	800	3600
Concrete Mixer	(330)		(860)		(1420)	(60,000)	n/a					
Fire Truck,	246		1335		2034	n/a	n/a	1900	2800	500 *	800	3600
Emergency	(330)		(985)		(1500)	n/a	n/a					
Dock Spotter,	246		1166		1925	n/a	36,288	1900	2800	500 *	800	3600
Tow Tractor	(330)		(860)		(1420)	n/a	(80,000)	1900	2000	500	800	3600
Ag Spreader, Sprayer, Blower, Feedlot Truck	246		1288		1966	n/a	n/a	1900	2800	500 *	800	3600
	(330)		(950)		(1450)	n/a	n/a					
Rating with	Gross Input Power	Gross Input Torque		Net Turbine Torque	GVW	GCW	Full Load Engine Governed Speed		Engine Idle Speed in Drive		Output Speed (Retarder Only)	
SEM/LRTP	kW (hp)		Nm (lb-ft)		Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm	max rpm
	246	1st Gear 1166		Gears 2-6 1424	1966	n/a	n/a	1900 2800				
General	(330)	(860)		(1050)	(1450)	n/a	n/a		500 *	800	3600	
Fire Truck,	246	1335		1424	2034	n/a	n/a	1900 2800				
Emergency	(330)	(985)		(1050)	(1500)	n/a	n/a		2800	500 *	800	3600
Dock Spotter, Tow Tractor	246	1166		1424	1966	n/a	36,288	1900 280		500 *	800	3600
	(330)	(860)		(1050)	(1450)	n/a	(80,000)		2800			
Ag Spreader, Sprayer, Blower,	246	1288		1424	1966	n/a	n/a	1900	2800	500 *	800	3600
Feedlot Truck	(330)	(950)		(1050)	(1450)	n/a	n/a	.300			PTOs are use	

14.0 International Models continued

14.6 3700 International Series											
Rating	Gross Input Power kW (hp)	Power Torque		GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		Engine Idle Speed in Drive min rpm max rpm		Output Speed (Retarder Only) max rpm	
General	205	990	1830	n/a	n/a	1900	2800	500 *	800	n/a	
	(275)	(730)	(1350)	n/a	n/a						
Fire Truck,	239	1254	1966	n/a	n/a	1900	2800	500 *	800	n/a	
Emergency	(320)	(925)	(1450)	n/a	n/a	1300	2000	500	000	11/4	
* 600 rpm if dual PTOs are used simultaneously											

LIST OF REFERENCED DOCUMENTS

- iSCAAN, Allison's vehicle performance calculation program
- <u>Transmission Families and Models</u>

Technical Documents (TD's)

• TD180-2, Vocational Compatibility for Allison On-Highway Transmissions

REVISION HISTORY

August 10, 2021

• In 10.1, revised the 3414 2nd range gross input torque rating

March 16, 2021

• Added 3000 xFE™ and 3200 xFE™ ratings in the International Models, see 14.2 and 14.4

January 21, 2021

• In 10.1, Revised the 3414 GCW rating to 82,000 lbs.

October 22, 2019

• Added 3414 RHS to Ratings table, see 10.1

August 23, 2019

• In 13.3, added new Gross Input Torque and Net Turbine Torque Ratings with SEM/LRTP for the 3500 International Series

September 4, 2018

- Revised Tour Coach ratings for T3270 xFE™, T3280 xFE™, and T3325 xFE™
- Added Tour Coach vocational capability to T3270 xFE™, T3280 xFE™, and T3325 xFE™

September 4, 2018

• Added Tour Coach to T3375 xFE™ in Table 11.11 (same as T375 Tour Coach ratings)

April 10, 2017

- In 1.1, removed redundant model name tables, refer to Transmission Families and Models
- In 1.2, added example of referencing TD180-2 in order to determine the proper rating.

September 23, 2016

Added T3270 xFE™ to rating table

June 28, 2016

• Added Tour Coach to B300 Ratings in Table 2.2 (same as Transit Bus rating)

September 9, 2015

• Revised minimum Full Load Governed Speed for all 3000 Product Family Ratings to 1900 rpm, previously was 1950 rpm.