

TPE331-12UHR Turboprop Engine

AEROSPACE



Specifications (Sea level-standard day)

Power output:	shp	1,100
	eshp	1,151
	emergency APR	1,208
SFC:	0.547	
ESFC:	0.522	
RPM:	gas gen	41,730
	shaft output	1,591
Rotation:	ccw from rear	
Weight:	407 lb	
PWR/WT ratio:	2.72	
Pressure ratio:	10.18	
Fuel:	Jet A, Jet B, Jet A-1, JP-4, JP-5, JP-8	
Oil:	Mil-L-23699, Type II Mil-L-7808, Type I	
Electrical:	24 vdc, 16.2 amp	
Start capability:	SL-20,000 ft -40°F + 130°F	
Operational limits:	SL-35,000 ft	
Compressor bleed:	10% (max)	
Specification no:	21-5298	

TPE331-12UHR

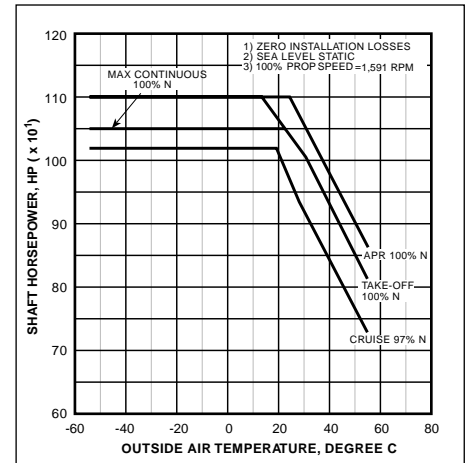
Basic engine includes

- Fuel pumps, filter, fuel control unit
- Motive flow capability
- Dual ignition system, excluding power source and accessory electrical wiring
- Propeller flange

- Lubrication system, exclusive of oil tank and related oil lines
- Strain gauge torque system
- Engine inlet anti-icing system, valve, and plumbing lines
- Propeller oil-flow tube

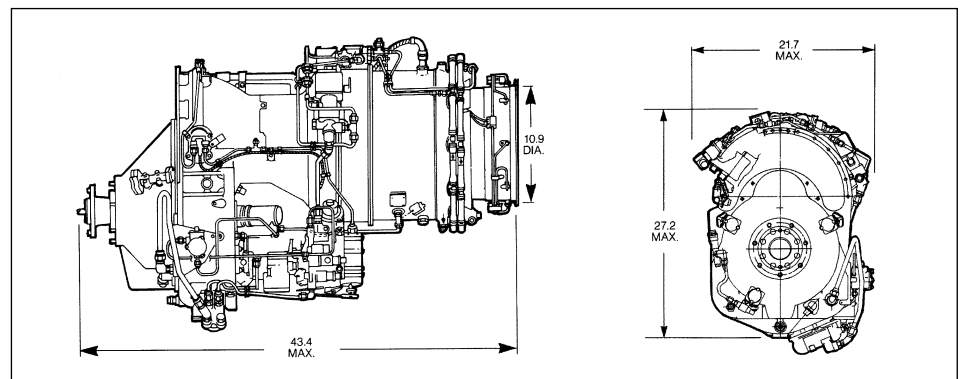
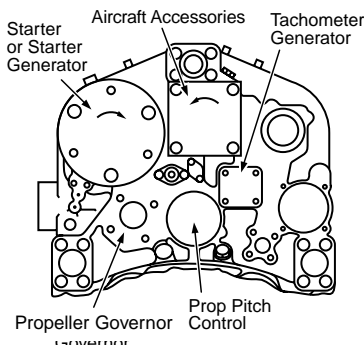
Accessories/features

- Propeller-governor control
- Propeller-pitch control
- External fuel heater
- Controls linkage assembly
- Auto-ignition switch
- Oil temperature-sensing bulb
- Beta pressure-sensing switch
- Oil pressure switch
- Torque and temperature limiting
- Fuel purge system
- EGT compensator
- Water-methanol injection manifold
- Single red line autostart controller



Nominal Use	Type of Drive (One Each)	AND Drive Modifications	Rotation Facing Drive Pad and rpm	Speed Ratio, Drive to Engine Rotor	Maximum Torque (lb-in)			1G LIMIT Overhung Moment (lb-in)
					T _C	T _O	T _S	
Aircraft Accessory	AND20001 Type XI-B (Modified)	Rotation and rpm	CCW 3,959 rpm	0.09487	250	375	1,650	125
Starter or Starter-Generator or Alternator	AND20002 Type XII-D (Modified)	Rpm, T _C , T _O , and Stud Pattern Rotated 30 Degrees	CCW 12,175 rpm	0.29175	300	600	2,200	500
Tachometer-Generator	AND20005 Type XV-B (Modified)	Shorter Studs and Thread Lengths	CW 4,187 rpm	0.10033	7	—	50	25
Propeller Governor	AND20010 Type XX-A (Modified)	Rpm, Stud Length, and Negative-Torque-System Supply Port	CW 3,754 rpm	0.08995	125	188	—	125
Propeller Pitch Control	Mounting Pad Provided		None			30		

CCW = Counterclockwise CW = Clockwise T_C = Continuous torque T_O = Torque overload T_S = Static torque



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