

TPE331-12JR Turboprop Engine

Honeywell



**INCREASED PERFORMANCE WITH
LOWER COST OF OWNERSHIP**

**Advanced Power and Performance
for Turboprop Aircraft**

TPE331-12JR

Specifications

(Sea level-standard day)

Power output: shp 1,000
eshp 1,050
emergency APR available to 44°C @ 850 shp

SFC: 0.553

ESFC: 0.523

RPM: gas gen 41,730
shaft output 1,591

Rotation: ccw from rear

Weight: 415 lb

PWR/WT ratio: 2.41

Pressure ratio: 10.2

Airflow: 8.11 lb/sc

Fuel: Jet A, Jet B, Jet A-1, JP-4, JP-5, JP-8, JP8+100

Oil: Mil-L-23699, Type II
Mil-L-7808, Type I

Electrical: 24 vdc, 16.2 amp

Start capability: SL-20,000 ft
up to +130°F

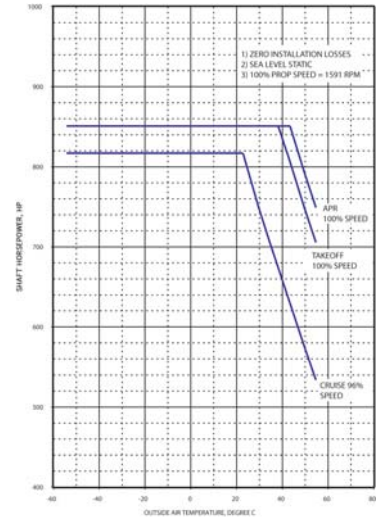
Operational limits: SL-35,000 ft

Compressor bleed: 10% (max)

Specification no: 21-11721

Basic engine includes

- Fuel pumps, filter, fuel control unit
- Dual ignition system, excluding power source and accessory electrical wiring
- Propeller flange
- Lubrication system, inclusive of oil tank and related oil lines
- Strain gauge torque system
- Engine inlet anti-icing system, valve, and plumbing lines
- Propeller oil-flow tube (Beta)

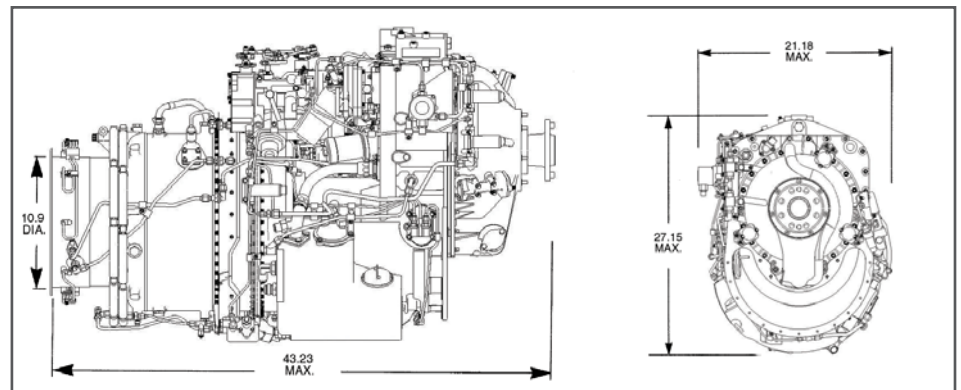
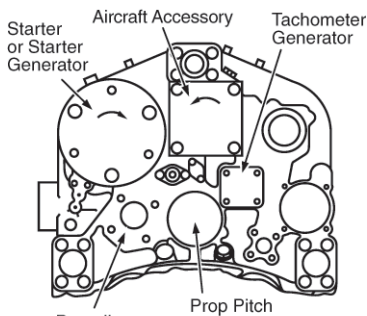


Accessories/features

- Propeller-governor control
- Propeller-pitch control
- Integral fuel heater in oil tank
- Controls linkage assembly
- Auto-ignition switch
- Oil temperature-sensing bulb
- Beta pressure-sensing switch
- Torque and temperature limiting
- Fuel purge system
- EGT compensator
- 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	825	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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