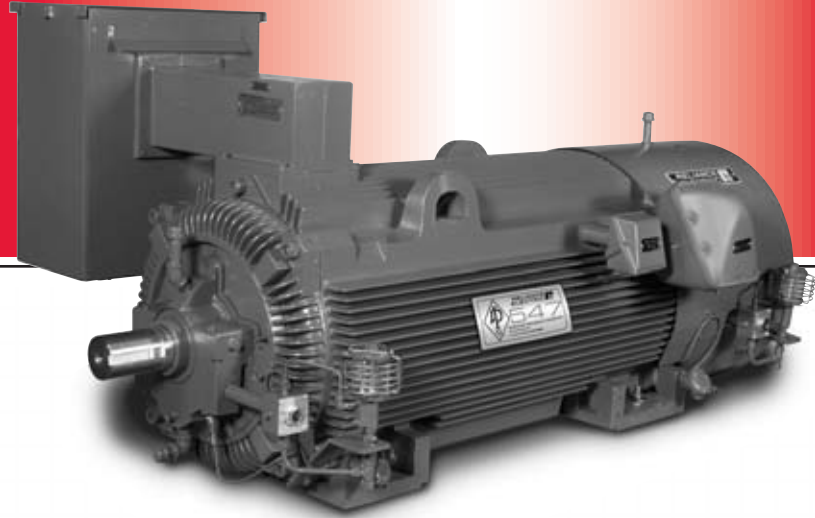


API 547 Large AC Motors



Users in the Petroleum and Chemical industries wanted a general purpose, easy to specify motor that had the base features required for safe, reliable operation in severe duty applications. The American Petroleum Institute responded by creating Specification number 547.

The Baldor•Reliance API 547 motor is designed to meet the spec and is also the first motor of any kind to receive the API Monogram. This commitment to delivering quality and value to our customers is one of the reasons that Baldor•Reliance motors remain the preferred choice of users in the Petrochemical Industry.

About API Standard 547

- This standard covers the requirements for form-wound induction motors for use in general purpose petroleum, chemical, and other industrial severe duty applications.

These motors:

- Are rated 250 Hp – 3000Hp for 4, 6, and 8 pole speeds
- Are rated < 800 Hp for 2 pole totally enclosed motors
- Are rated < 1250 Hp for 2 pole WP-II motors
- Drive centrifugal loads
- Drive loads having inertia values within those listed in NEMA MG 1 Part 20

Application Information

- API 547 motors are ideally suited for many common pump, fan, and compressor applications.
- Data Sheets for 547 motors are available, but not required as the specification has default selections for all necessary motor features.
- Pre-Engineered model number selections are available for 2 pole and 4 pole motors.

About the API Monogram

As an API licensee Baldor•Reliance is committed to modern quality systems enabling us to deliver interchangeable products that are safe and meet industry standards and performance specifications. Receiving the API license proves that Baldor has documented systems that incorporate the structure, responsibilities, control processes, and resources needed to manage and maintain quality.

API 547 Motor Feature Summary

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> • 85 dBA • API vibration limits - .10 in/sec or 1.5 mils • 1.0 service factor • Sleeve bearings • API foot planarity (0.002 in/ft) • Oil resistant silicon leads • Pilot holes for dowel pins • Sump heaters for sleeve bearing motor if < 18C ambient • Class 1 Div 2, Group C & D T3A • 60 hz sinewave power • Crowned 1/2 key for balancing • (2) Insulated bearings and a grounding device • Ambient “-25°C to +40°C” • (2) Frame grounds • APEX (UV resistant) paint system • API routine test minimum • Aluminum rotor – fab CU required over 1000 Hp | <ul style="list-style-type: none"> • Starting duty nameplate • 80% RVS per NEMA load curve (> 500 Hp) • XTS features for TEFC • Constant level oilers – sleeve bearing • Permanent end float indicator – sleeve bearing • Vertical jack screws • Spot face for hold down bolts • 650% maximum locked rotor current • 3.5 per unit surge withstand • Stainless steel hardware • Standard high efficient design • 3300 feet altitude • Horizontal – foot mounted • Solid seal insulation (2 cycle VPI system capable of passing a water immersion test) • IP55 bearing protection • Oversized conduit box for stress cones • Winding RTD's – 100 ohm pt. 2 per phase | <ul style="list-style-type: none"> • Bearing RTD's 100 ohm pt. 1 per bearing if sleeve bearing • Replaceable space heaters – T3A • Direct coupled • Automatic drainage fittings • Long term storage for at least 6 months <p>Additional Features for WP11 Motors</p> <ul style="list-style-type: none"> • Stainless steel and filters • Provisions for a differential air pressure switch/ gauge <p>Additional Features for Model Number Motors</p> <ul style="list-style-type: none"> • CSA certified • F1 to F2 convertible • 2300/4000V • Provisions for probes |
|--|--|---|

API 547 Model Number Motor Selection Chart

3600 RPM – 60 Hz					1800 RPM – 60 Hz				
Hp	TEFC		WP11		Hp	TEFC		WP11	
	Spec. No.	Frame	Spec. No.	Frame		Spec. No.	Frame	Spec. No.	Frame
250	A32250DSCA	G5008	A22250DSCA	E5006	250	A34250DSCA	G5008	A24250DSCA	E5006
300	A32300DSCA	G5008	A22300DSCA	E5008	300	A34300DSCA	G5008	A24300DSCA	E5006
350	A32350DSCA	G5008	A22350DSCA	E5008	350	A34350DSCA	G5008	A24350DSCA	E5006
400	A32400DSCA	G5010	A22400DSCA	E5010	400	A34400DSCA	G5008	A24400DSCA	E5008
450	A32450DSCA	G400K	A22450DSCA	E5010	450	A34450DSCA	G5010	A24450DSCA	E5008
500	A32500DSCA	G400K	A22500DSCA	E5010	500	A34500DSCA	G5010	A24500DSCA	E5010
600	A32600DSCA	G400K	A22600DSCA	05808	600	A34600DSCA	G5012	A24600DSCA	E5010
700	A32700DSBA	G400K	A22700DSCA	05808	700	A34700DSCA	G5012	A24700DSCA	E5012
800	Custom API 541	—	A22800DSCA	05808	800	A34800DSCA	G5012	A24800DSCA	E5012
900	Custom API 541	—	A22900DSCA	05808	900	A34900DSBA	G5012	A24900DSBA	E5808
1000	Custom API 541	—	A221K0DSCA	05810	1000	A341K0DSCA	G400J	A241K0DSCA	E5810
1250	Custom API 541	—	Custom API 541	—	1250	A341K2DSBA	G400J	A241K2DSBA	E5812
1500	Custom API 541	—	Custom API 541	—	1500	A341K5DSBA	G500M	A241K5DSBA	E5812
1750	Custom API 541	—	Custom API 541	—	1750	A341K7DSBA	G500M	A241K7DSBA	E5812
2000	Custom API 541	—	Custom API 541	—	2000	A342K0DSBA	G500M	A242K0DSBA	E5812
2250	Custom API 541	—	Custom API 541	—	2250	Custom API 541	—	A242K2DSBA	E7111
2500	Custom API 541	—	Custom API 541	—	2500	Custom API 541	—	A242K5DSBA	E7111
2750	Custom API 541	—	Custom API 541	—	2750	Custom API 541	—	A242K7DSBA	E7111
3000	Custom API 541	—	Custom API 541	—	3000	Custom API 541	—	A243K0DSBA	E7111



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