

TITAN® Horizontal Large A.C. Motors

Totally Enclosed Fan Cooled Enclosure

Medium Voltage Catalog Motors



Horsepower: 150–600 HP

Poles: 2–6 (3600–1200 RPM)

Rated Voltage: 2300/4000V 60Hz

Frame Size: 449-5012

Bearings: Anti-friction ball bearings

Efficiency Level: Premium and high efficiency



Product Overview and Features

U.S. MOTORS® brand TEFC CORRO-DUTY® TITAN® motors are designed for use in hostile environments with pumps, compressors, fans, blowers and conveyors. TEFC CORRO-DUTY TITAN enclosures have cast iron frame, conduit box, bearing caps, end shields and fan cover. TITAN® TEFC motors are suited for use in the petrochemical, pulp and paper, wastewater, electric power, steel, forestry, cement, and mining industries.

U.S. MOTORS brand TEFC motors are designed to operate in 40°C ambient temperature and at a maximum altitude of 3,300 feet above sea level. These motors are rated Class B rise at 1.0 service factor and Class F rise at 1.15 service factor with full Class F or better insulating materials. Nidec Motor Corporation conducts a short commercial test on each TITAN TEFC motor consisting of no load current tests, locked rotor current (performed at reduced voltage), winding resistance, high potential and a vibration check. A copy of this test report is shipped with the motor inside the main conduit box.

Standard Features:

- 1.15 Service factor
- Division 2 labeled
- Class B temperature rise at full load (1.0 S.F.)
- NEMA Design B (where applicable)
- CORRO-DUTY® (includes all cast iron construction)
- V-ring/umbrella seal on both ends (IP54)
- Stainless steel drains – both ends
- Oversized main conduit box
- Ground lug in conduit box
- Grounding pad on frame
- Special balance
- Two hole lead lugs
- 115V space heater with leads in auxiliary box
- 100 ohm winding RTDs (2/ph.) terminated in auxiliary box
- Vertical jacking provisions
- Provisions for bearing RTDs (1/bearing)
- Insulated bearing on opposite drive end
- CSA certified (M.C. No. 191252) on main nameplate
- Short commercial test report (inside main conduit box)
- 36/42 months warranty (installed/manufactured)

Conversion Options:

- INPRO/SEAL® on both ends (IP55)
- 100 Ohm bearing RTDs (1/bearing)
- C or D flange (449 Frame Only)
- F2 assembly position (5000 Frame Only)
- Rotate conduit box 90 degrees
- Clockwise fan (from opposite drive end) on 2-pole ratings
- Special paint (requires NMC approval)
- Marine duty nameplate (Below deck Only)
- Complete initial test report (IEEE 112 method B)



For more information, contact your local sales representative or visit www.usmotors.com

TITAN® General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® High Efficient

HP	RPM	Voltage	Frame	Catalog Number	List	Disc Sym	"C" Dim. (in)	Ship Wt (lbs)	Full Load Eff.	Full Load Amps	Typ. Sound Pressure Level @ 1M (dBA)	Div.2 T-Code on Sep. N/P	Notes
150	3600	2300/4000	449TS	C150S1WS	\$32,804	DS-6S	51.4	2400	92.4	34/19.5	89	T3	50
	1800	2300/4000	449T	C150S2W	\$31,538	DS-6S	55.1	2400	93	34/19.8	89	T3	
	1200	2300/4000	449TL	C150S3WB	\$32,957	DS-6S	57.1	2400	93	38/22	82	T3	09
200	3600	2300/4000	449TS	C200S1WS	\$34,531	DS-6S	51.4	2400	93	45/26	89	T3	50
	1800	2300/4000	449T	C200S2W	\$33,198	DS-6S	55.1	2400	93.6	45/26.1	89	T3	
	1200	2300/4000	449TL	C200S3WB	\$40,100	DS-6S	57.1	2400	93	48/27.4	82	T2D	09
250	3600	2300/4000	449TS	C250S1WS	\$39,417	DS-6S	51.4	2400	93.6	56/32	89	T2C	50
	1800	2300/4000	449T	C250S2W	\$38,271	DS-6S	55.1	2400	94.5	58/33	89	T2D	
	1200	2300/4000	5008ML	C250P3WB	\$48,781	DS-6S	66.5	4000	95	60/34	76	T3	09
300	3600	2300/4000	5010S	C300P1WS	\$46,793	DS-6S	67.6	4800	95	67/39	86	T3	50
	3600	2300	449TS	C300S12S	\$42,114	DS-6S	51.4	2400	93	67	92	T2B	
	1800	2300/4000	5008S	C300P2W	\$42,910	DS-6S	60.6	4000	95	70/40	85	T3	
	1800	2300	449T	C300S22	\$38,619	DS-6S	55.1	2400	93.6	68	93	T2D	
	1200	2300/4000	5010ML	C300P3WB	\$50,195	DS-6S	73.5	4800	95	71/41	78	T3	09
350	3600	2300/4000	5010S	C350P1WS	\$52,834	DS-6S	67.6	4800	95	78/45	86	T3	50
	1800	2300/4000	5010S	C350P2W	\$51,798	DS-6S	67.6	4800	95	81/46	85	T3	
	1200	2300/4000	5010ML	C350P3WB	\$57,695	DS-6S	73.5	4800	95	83/47	78	T3	09
400	3600	2300/4000	5010S	C400P1WS	\$56,819	DS-6S	67.6	4800	95	89/52	89	T3	50
	1800	2300/4000	5010S	C400P2W	\$54,576	DS-6S	67.6	4800	95	92/53	85	T3	
	1200	2300/4000	5010ML	C400P3WB	\$61,660	DS-6S	73.5	4800	95.4	94/54	78	T3	09
450	3600	2300/4000	5012S	C450P1WS	\$65,481	DS-6S	75.6	6000	95	100/58	89	T3	50
	1800	2300/4000	5010S	C450P2W	\$61,029	DS-6S	67.6	4800	95.4	103/59	85	T3	
	1200	2300/4000	5012ML	C450P3WB	\$71,310	DS-6S	81.5	6000	95.4	105/60	78	T3	09
500	3600	2300/4000	5012S	C500P1WS	\$70,131	DS-6S	75.6	6000	95	110/64	89	T3	50
	1800	2300/4000	5012S	C500P2W	\$68,464	DS-6S	75.6	6000	95.8	113/65	85	T3	
	1200	2300/4000	5012ML	C500P3WB	\$76,529	DS-6S	81.5	6000	95.8	118/68	78	T3	09
600	3600	2300/4000	5012S	C600P1WS	\$74,190	DS-6S	75.6	6000	95.4	130/75	89	T2B	50
	1800	2300/4000	5012S	C600P2W	\$76,750	DS-6S	75.6	6000	96.2	134/77	85	T3	

Note 09 Roller Bearing

Note 50 Counterclockwise (CCW) rotation; Refer to "Kits" Section for Clockwise (CW) Fan Kits



For additional information, please refer to our Full Line Standard Motor Catalog (FL600) or contact your Nidec Motor Corporation representative.

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