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Class Description

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Class Number	Description
4228-81	MOTORS AND GENERATORS-For Hazardous Locations - Certified to US Standards

COVERAGE:

Electric motors (with or without inherent overheating protection) and generators.

This category does not include sealed (hermetic) type motors such as in refrigerator compressors.

REQUIREMENTS:

UL Standard 674 - Electric Motors and Generators For Use in Hazardous (Classified) Locations, Class I, Groups C and D, Class II, Groups E, F and G

MARKING:

- submittor's identification;
- model or type designation or equivalent;
- rated voltage;
- frequency in Hertz;
- rated amperes;
- number of phases;
- service factor (if different than unity);
- rated speed;
- insulation system code;
- horsepower rating;
- frame size;
- permissible ambient, if greater than 40C;
- temperature code;
- applicable hazardous locations Class, Group and sometimes Division. Equipment not marked to indicate a Division, or marked "DIVISION 1" or "DIV 1" is certified for both Divisions 1 and 2 locations. Equipment marked "DIVISION 2" or "DIV 2" is certified only for Division 2 locations;
- date code;
- "THERMALLY PROTECTED" or "TP";
- "KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE" on terminal box;
- cautions, warnings and additional markings as may be required by the applicable Standards;
- CSA Monogram and "NRTL".

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Certificate Record

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Customer	Class	File Number
Shanghai Top Motor Co., Ltd. No. 303 Kangliu Road, Kangqiao Industrial Area Nanhui Shanghai China 201315	4228-81 MOTORS AND GENERATORS-For Hazardous Locations - Certified to US Standards	224693

Class I, Div. 2, Groups A, B, C and D, Temperature coded: T4A, T3C, T2C or T2B (Where applicable)

Three-phase squirrel cage induction motors, TXA, TXC, TFA and TFC Series, NEMA frames 143T to 447T, TEFC, rated 200 HP max, 575 V max, 60 Hz, continuous duty, Class F insulation, 40°C ambient temperature.

Notes: a) S.F. 1.25 for frame sizes 143T to 256T

b) S.F. 1.15 for frame sizes 284T to 447T

c) refer to table 1 for temperature code

Table 1

Frame size	Max HP			Sinusoidal	
	2 pole	4 pole	6 pole	SF 1.15	S.F 1.25
143T/145T	2 HP	2 HP	1 HP	--	T4A
182T/184T	5 HP	5 HP	2 HP	--	T3C
213T/215T	10 HP	10 HP	5 HP	--	T3C
254T/256T	20 HP	20 HP	10 HP	--	T2C
284T/286T	30 HP	30 HP	20 HP	T2B	--
324TS/326TS	50 HP	50 HP	30 HP	T2B	--

364TS/365TS	75 HP	75 HP	50 HP	T2C	--
405T	100 HP	100 HP	75 HP	T2B	--
444T/445T	150 HP	150 HP	125 HP	T2B	--
447T	200 HP	200 HP	150 HP	T2B	--

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