PRODUCT INFORMATION PACKET

Model No: 405TSTGS16531 Catalog No: U082A Explosion Proof Motor, 100 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 405TS Frame, EPFC



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Nameplate Specifications

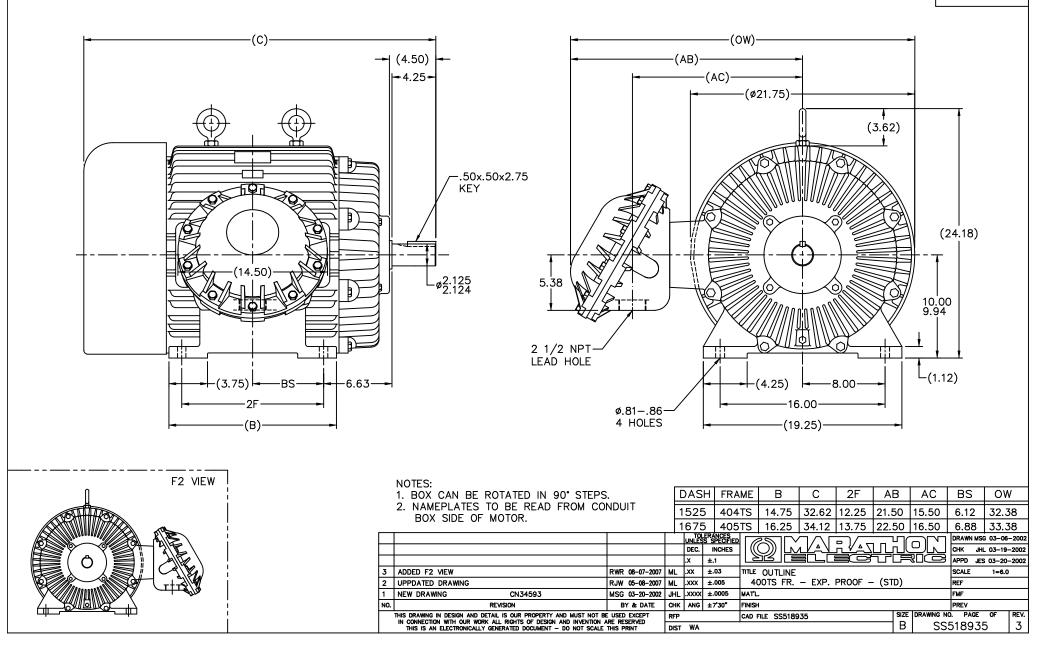
Output HP	100 Нр	Output KW	75.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	226.0/113.0 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Frame	405TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B	Number of Speeds	1

Technical Specifications

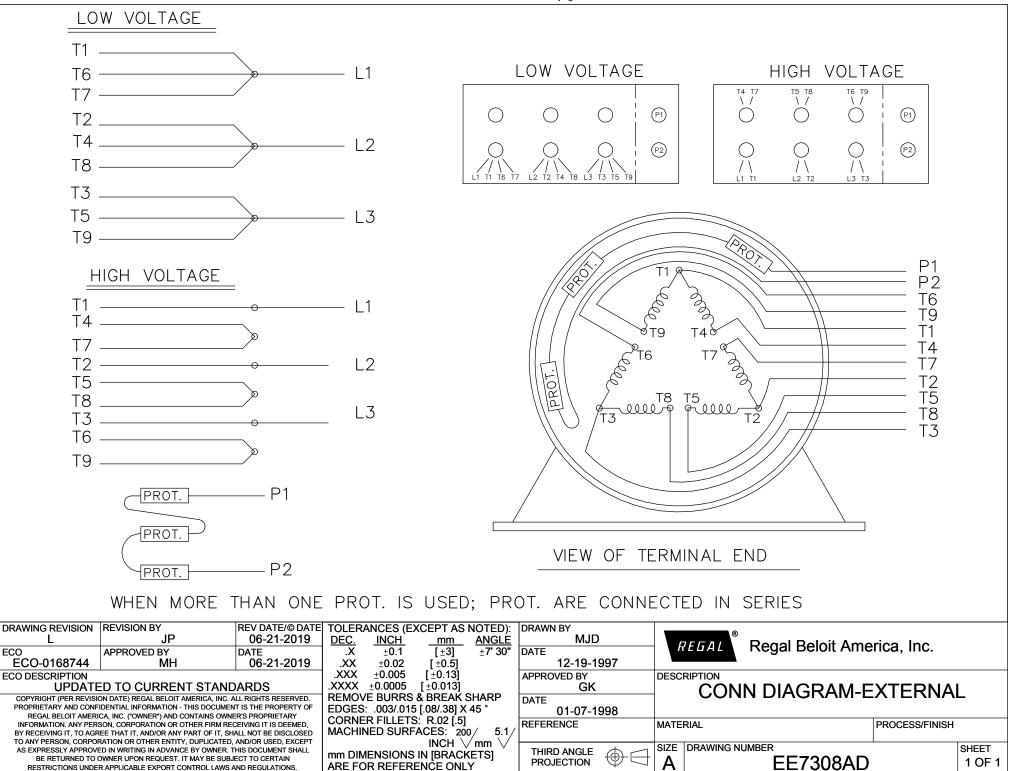
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.054 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	тѕ	Overall Length	34.12 in
Frame Length	16.75 in	Shaft Diameter	2.125 in
Shaft Extension	4.5 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 2:1		
Outline Drawing	B-SS518935-1675	Connection Drawing	A-EE7308AD

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CERTIFICATION DATA SHEET

Model#:	405TSTGS16531 AN	WINDING#:	T405472 NONE 1
CONN. DIAGRAM:	A-EE7308AD	ASSEMBLY:	F1 ONLY
OUTLINE:	B-SS518935-1675		

TYPICAL MOTOR PERFORMANCE DATA

HP		ĸw	SYN	IC. RPM		F.L. RPM	FRAME	EN	CLOSURE	KVA CC	DDE	DESIGN
100&75	7	75&56		1800		1780&1485	405TS		EPFC	F		В
PH	Hz	vo	LTS	FL AMF	PS	START TYPE	DUTY	INSI	s	.F	AMB°C	ELEVATION
3	60/50	230/46		226/113&	204/	_	CONTINUOU	F1	1.15	/1.15	40	3300
]		80	102		INVERTER	S]			
FULL LOA 95.4&9		3/4 LOAD	EFF: 95	5.8 1/2	2 LO	AD EFF: 95.8	GTD. EF	F	ELEC	. TYPE	NO	LOAD AMPS
ULL LOAD F	PF: 87&87	3/4 LOA	D PF: 8	6 1/	2 LO	AD PF: 81.5	95		SQ CAGE	INV RATED		56 / 28

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
295 LB-FT	1350 / 675	445 LB-FT 151	715 LB-FT 242	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	27 LB-FT^2	550 LB-FT^2	25 SEC.	2	1400 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM	EXP PROOF CL	FALSE	NONE	BLUE (EPOXY)
				SEVERE DUTY	I GR C&D CL II			
					GR F&G T3B			

BEAF	BEARINGS		BEARINGS		SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL		
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT	CAST IRON		
6316	6313					ROLLED (C-204)			

	THERMO-PF	OTECTORS	THERMISTORS	CONTROL	SPACE /n HEATERS	
THERMOSTATS	PROTECTORS	PROTECTORS WDG RTDs				
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further

information

	INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: NONE						
ENCODE	ENCODER: NONE						
NONE N	IONE						
NONE N	IONE PPR						
BRAKE:	NONE	NONE					
NONE	P/N N	ONE					
NONE	NONE						
- FT-LB	NON	NE V	NONE Hz				

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