

Crusher Duty Motors

Model No: 405TTFC6633

Catalog No: Y822B

Crusher Duty Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 405T Frame,
TEFC

Product Information Packet: Model No: 405TTFC6633, Catalog No: Y822B Crusher Duty Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 405T Frame, TEFC

Nameplate Specifications

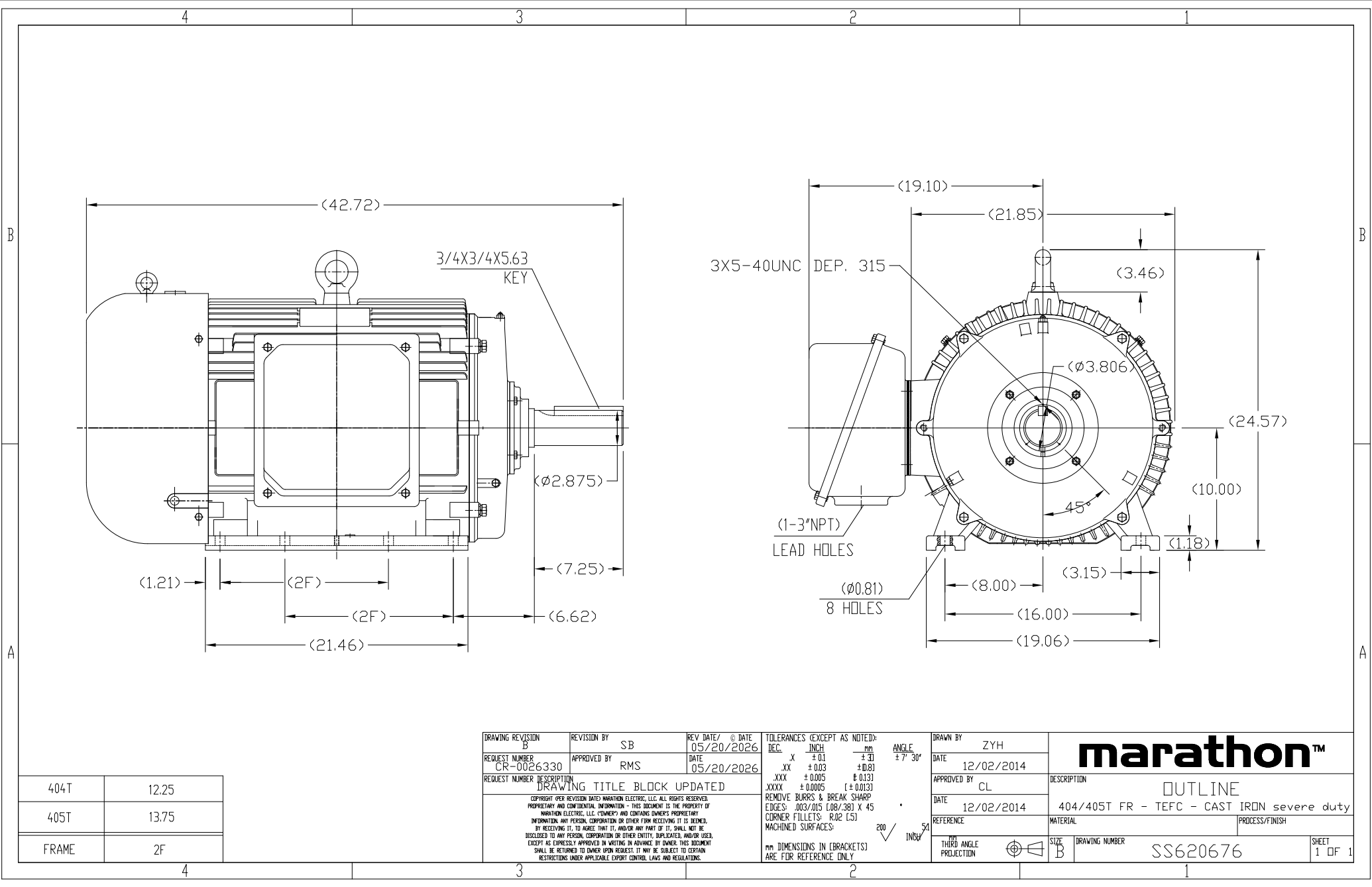
Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	230/460 & 190/380 V
Speed	1785 & 1485 r/min	Synchronous RPM	1800 & 1500 r/min
Service Factor	1.15 & 1.15	Frame	405T
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	95.4 & 95 %	Ambient Temperature	40 °C
Frequency	60 & 50 Hz	Current	228/114 & 210/105 A
Power Factor	86	Duty	Continuous
Insulation Class	F	Design Code	C
KVA Code	G	Drive End Bearing Size	NU316
Opp Drive End Bearing Size	6315	UL	Recognized
CSA	Y	CE	Y
IP Code	55	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.042 O	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	42.72 in
Shaft Diameter	2 7/8 in	Shaft Extension	7.25 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	Constant 10:1

Drawings

Connection Drawing	EE7308AA	Outline Drawing	SS620676-405T
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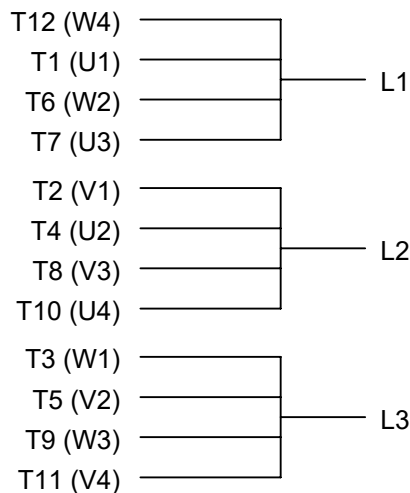
404T	12.25
405T	13.75
FRAME	2F

DRAWING REVISION B	REVISION BY SB	REV. DATE/ © DATE 05/20/2026
REQUEST NUMBER CR-0026330	APPROVED BY RMS	DATE 05/20/2026
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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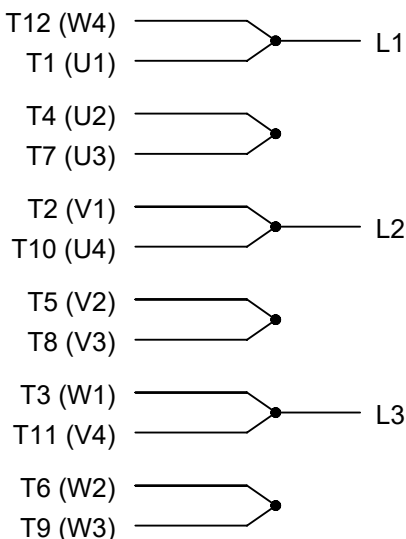
TOLERANCES (EXCEPT AS NOTED):	DEC.	INCH	MM
.X	± 0.1	± .01	± .01
.XX	± 0.03	± .003	± .003
.XXX	± 0.005	± .0005	± .0005
.XXXX	± 0.0005	± .00005	± .00005
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 (.08/.38) X 45 CORNER FILLETS: R.02 (.5) MACHINED SURFACES:	200	INCH	51
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY			

DRAWN BY ZYH	DATE 12/02/2014
APPROVED BY CL	DATE 12/02/2014
REFERENCE	THIRD ANGLE PROJECTION

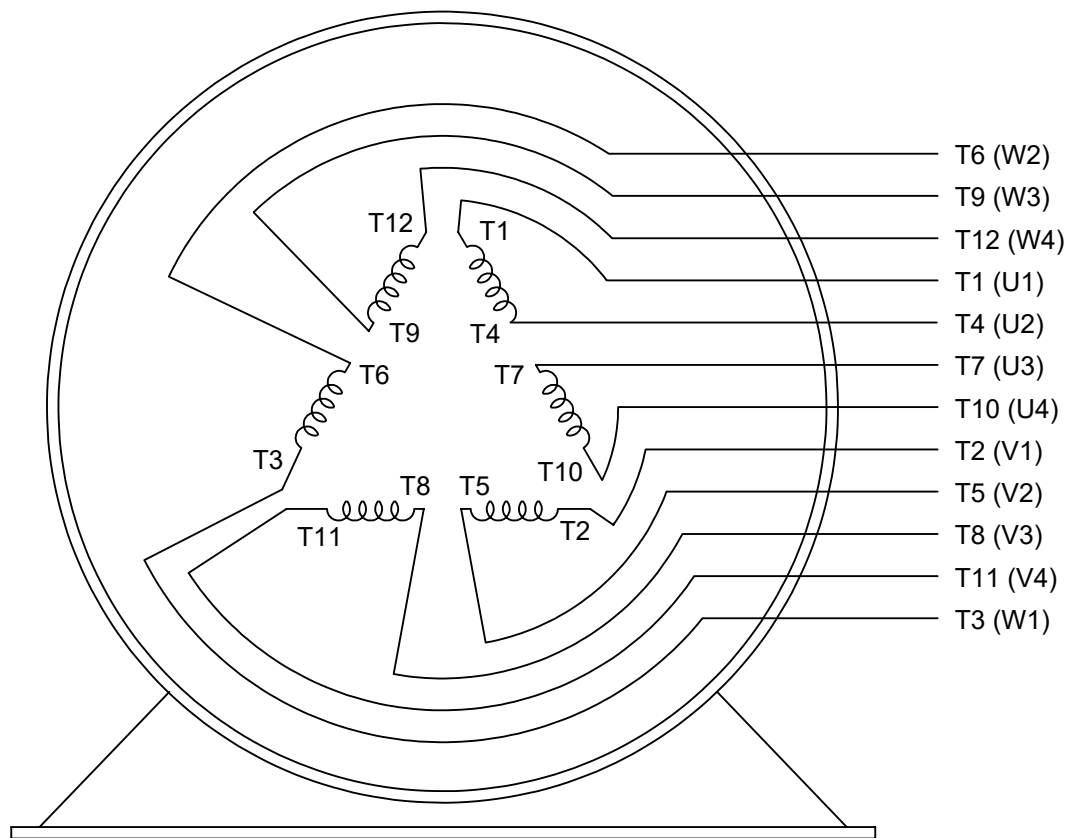
marathon™	
DESCRIPTION OUTLINE 404/405T FR - TEFC - CAST IRON severe duty	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620676
SHEET 1 OF 1	



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY SB	REV DATE/© DATE 08/01/2025
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED		
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PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY LZ	marathon™		
DATE 01-12-1994			
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL		
DATE 01-14-1994	3Ø-2/1 DELTA-12 LEADS		
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AA	SHEET 1 OF 1

Data Sheet

Date: 16-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA

405TTC6633



Submittal

Data @ 460 V

Motor Load Data

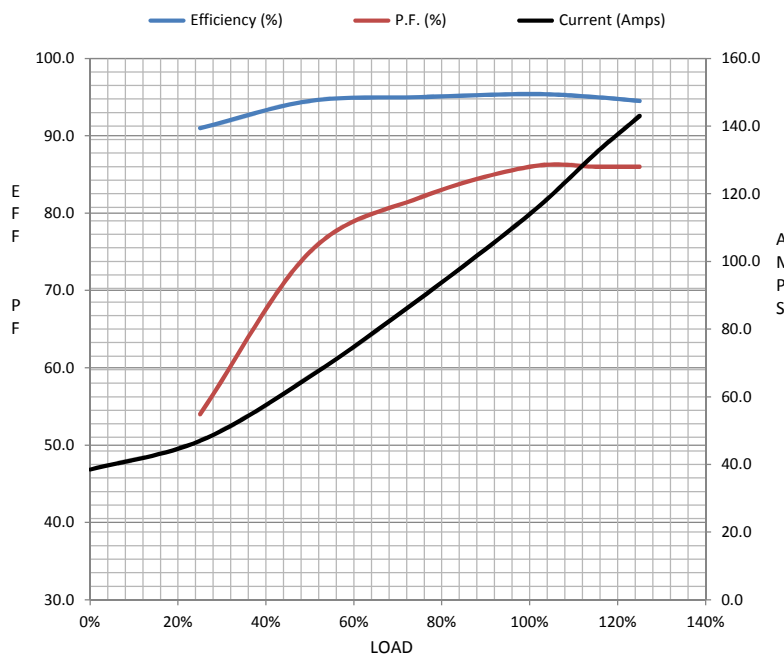
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	38.5	47.0	66.0	89.0	114	132	143	725	
Torque (ft-lb)	0.00	73.0	147	220	294	341	370	750	
RPM	1800	1796	1792	1790	1785	1,782	1780	0	
Efficiency (%)		91.0	94.5	95.0	95.4	95.0	94.5		
P.F. (%)	4.5	54.0	75.0	82.0	86.0	86.0	86.0	40.0	

Motor Speed Data

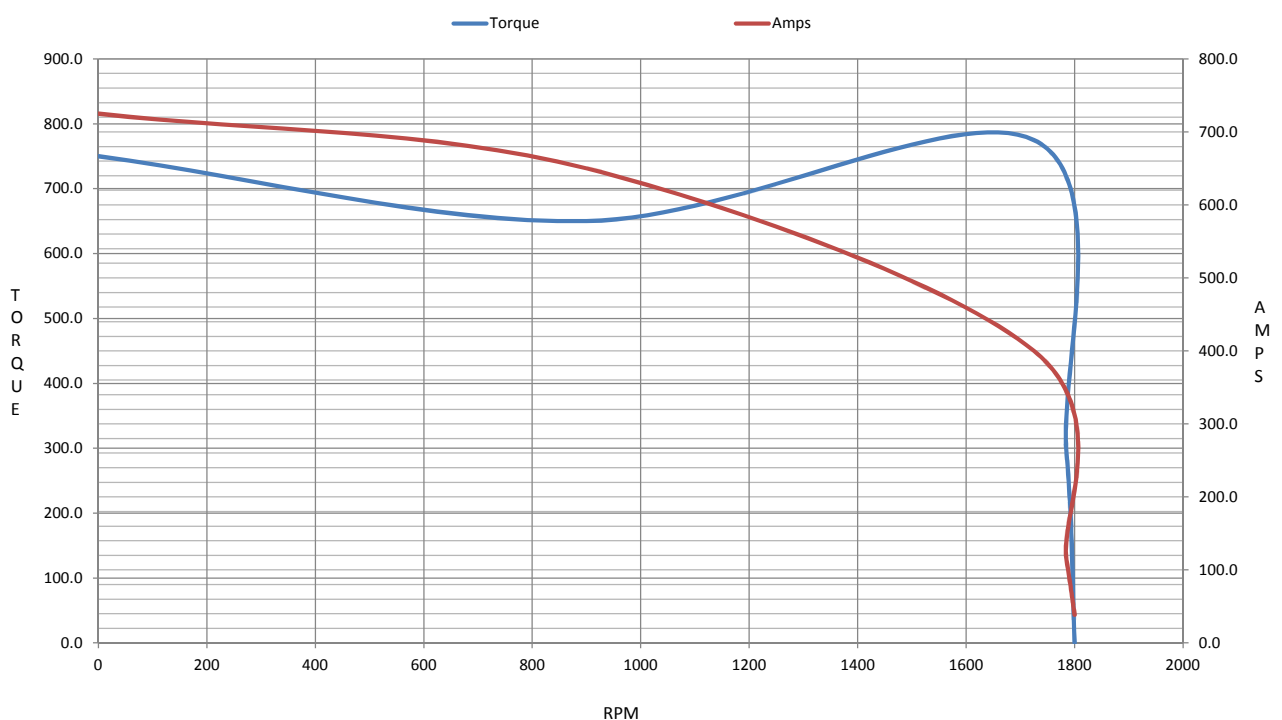
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	725	650	400	114	38.5
Torque (ft-lb)	750	650	775	294	0.00

Information Block

HP	100.0			
Sync. RPM	1800			
Frame	405			
Enclosure	TEFC			
Construction	TFC			
Voltage	230/460#190/38(V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	35.0 Lb-Ft ²			
Ref Wdg	CHT40540008 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS620676			
Conn. Diag	EE7308AA			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0310	0.0210	0.1760	0.3520	6.0350



Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 405TTFC6633 AA

WINDING#: CHT40540008 NONE 1

CONN. DIAGRAM: EE7308AA

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620676

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75&56	1800	1785&1485	405T	TEFC	G	C

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	228/114&210/ 105	PWS & YDRUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95.4&95	3/4 LOAD EFF: 95	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&85.5	3/4 LOAD PF: 82	1/2 LOAD PF: 75	94.5	SQ CAGE INV RATED	77 / 38.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
294 LB-FT	1450 / 725	750 LB-FT 255	775 LB-FT 262	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	35 LB-FT^2	550 LB-FT^2	25 SEC.	2	1625 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 SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
ROLLER	BALL	SHC- 100/POLYREX	T	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON
NU316	6315						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: CONSTANT 10:1
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE NONE NONE PPR
	BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

DATE: 06/22/2017 12:35:27 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.