

Crusher Duty Motors

Model No: 447TTFC6683

Catalog No: Y854A

Crusher Duty Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 RPM, 447T Frame, TEFC

Product Information Packet: Model No: 447TTFC6683, Catalog No: Y854A Crusher Duty Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 RPM, 447T Frame, TEFC

Nameplate Specifications

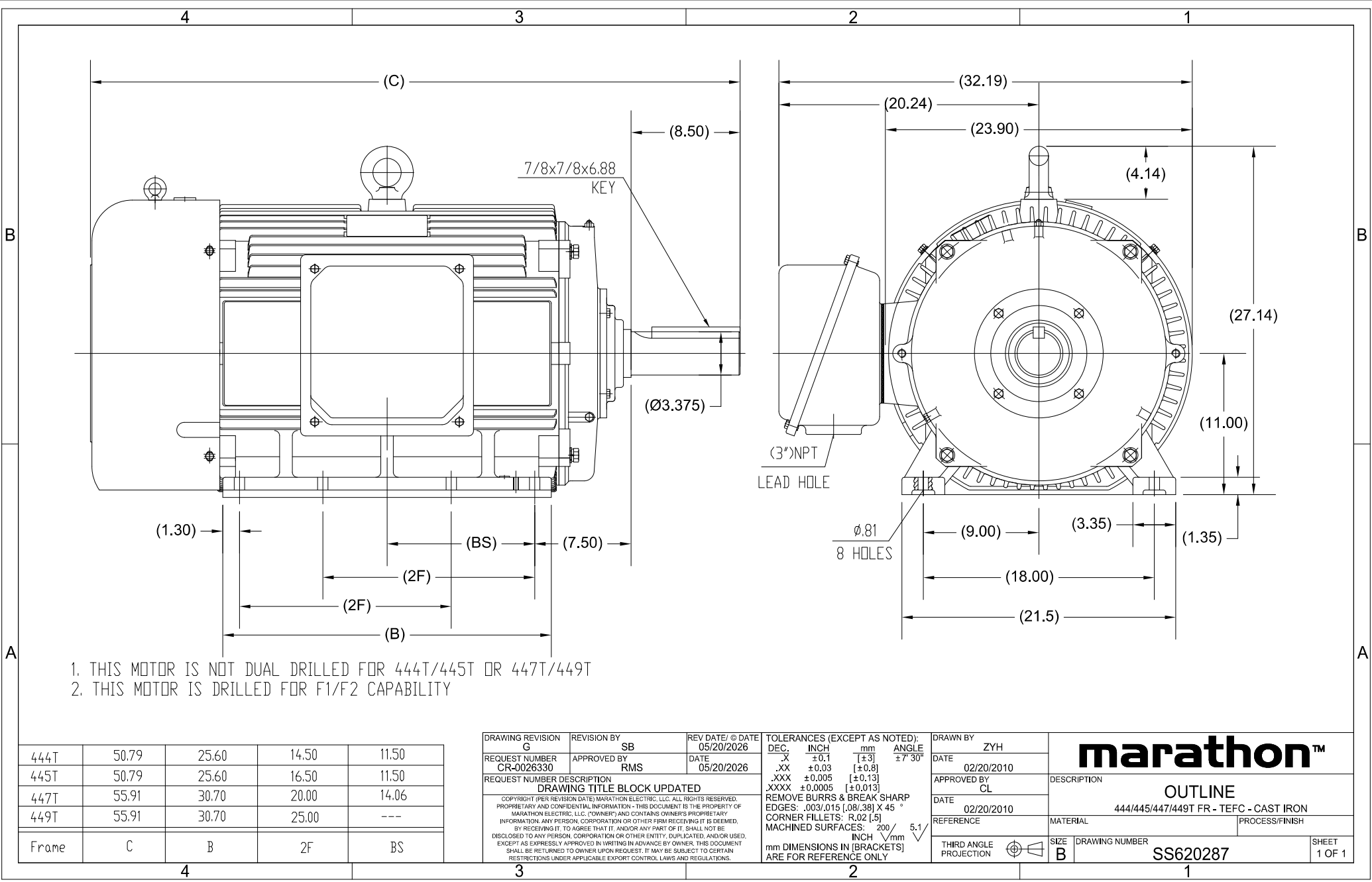
Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	1190 & 990 r/min	Synchronous RPM	1200 & 1000 r/min
Service Factor	1.15 & 1.15	Frame	447T
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	95.8 & 95.4 %	Ambient Temperature	40 °C
Frequency	60 & 50 Hz	Current	170 & 172 A
Power Factor	87	Duty	Continuous
Insulation Class	F	Design Code	C
KVA Code	G	Drive End Bearing Size	NU319
Opp Drive End Bearing Size	6317	UL	Recognized
CSA	Y	CE	Y
IP Code	55	Number of Speeds	1

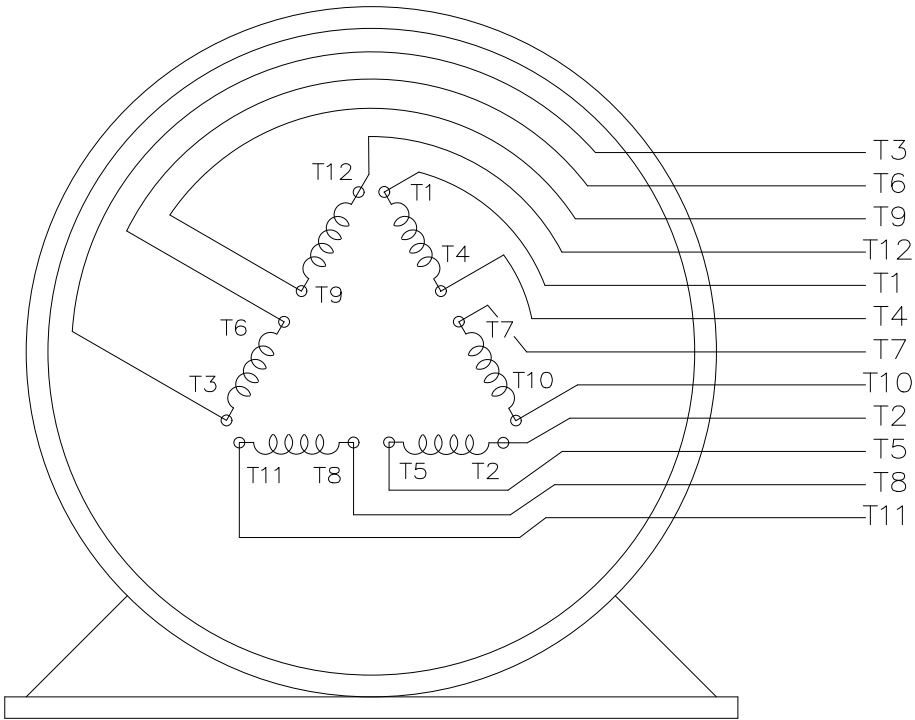
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.022 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	50.78 in
Shaft Diameter	3 3/8 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 Capable	Inverter Load	Constant 10:1

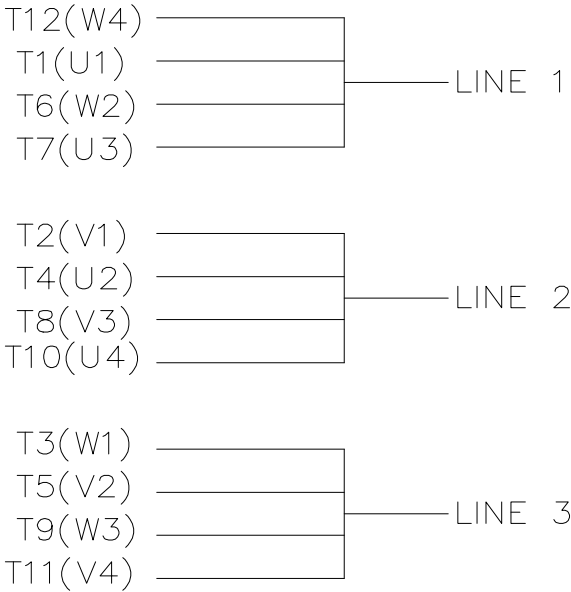
Drawings

Connection Drawing	EE7300BH	Outline Drawing	SS620287-447T
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VIEW OF TERMINAL END



DRAWING REVISION E		REVISION BY SB		REV DATE/ © DATE 08/04/2025		DRAWN BY RJW		marathon™					
REQUEST NUMBER CR-0023654		APPROVED BY SBD		DATE 08/04/2025		DATE 02/11/2025							
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED						PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY		APPROVED BY GK		DESCRIPTION CONNECTION DIAGRAM			
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								REFERENCE		MATERIAL		PROCESS/FINISH	
								THIRD ANGLE PROJECTION				SIZE A	DRAWING NUMBER EE7300BH

Data Sheet

Date: 20-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA

447TFC6683



Submittal

Data @ 460 V

Motor Load Data

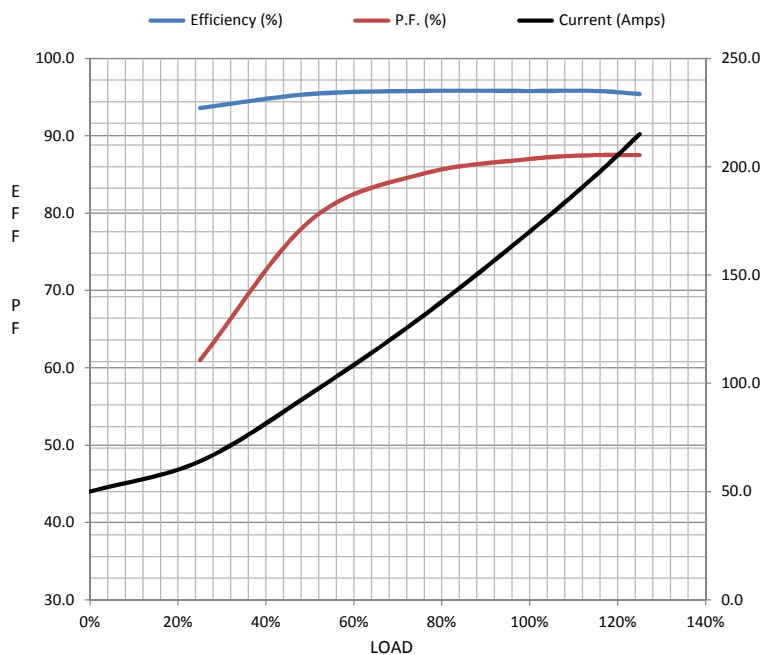
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	50.0	64.0	95.0	130	170	196	215	1,085	
Torque (ft-lb)	0.00	165	330	495	662	760	830	1,375	
RPM	1200	1198	1195	1192	1190	1,188	1185	0	
Efficiency (%)		93.6	95.4	95.8	95.8	95.8	95.4		
P.F. (%)	6.5	61.0	79.0	85.0	87.0	87.5	87.5	32.0	

Motor Speed Data

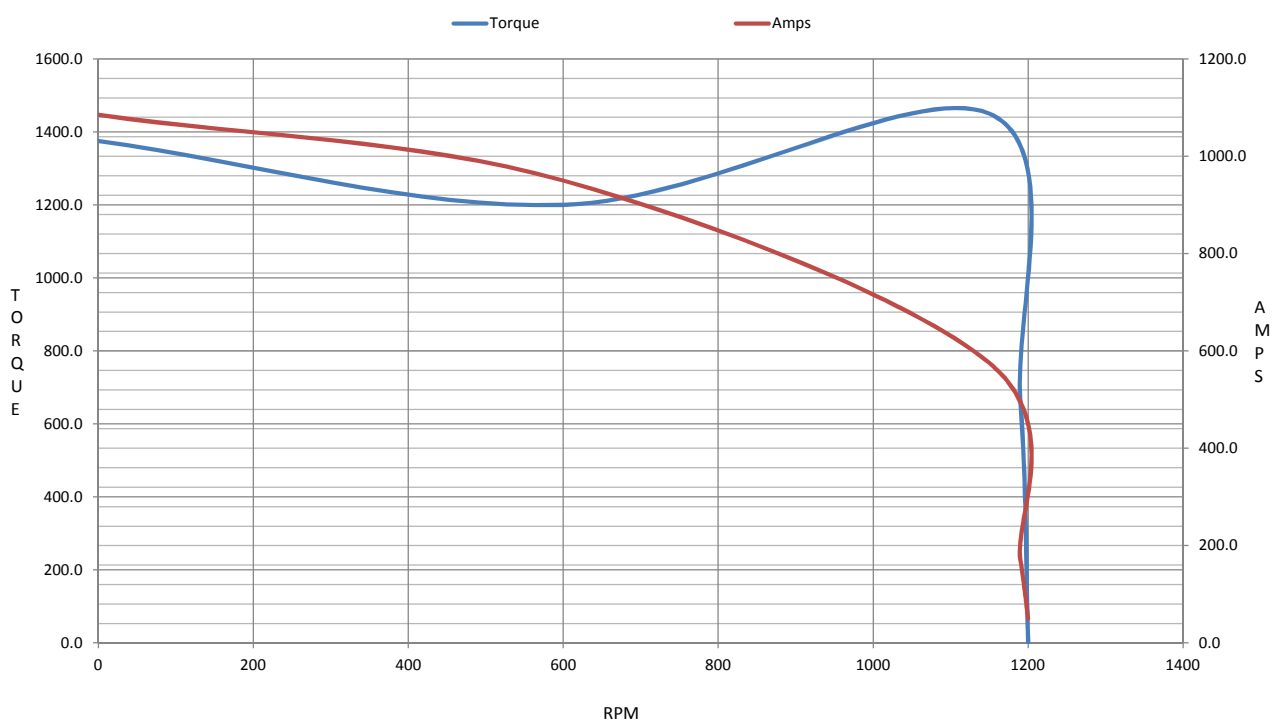
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1190	1200
Current (Amps)	1,085	950	575	170	50.0
Torque (ft-lb)	1,375	1,200	1,450	662	0.00

Information Block

HP	150.0			
Sync. RPM	1200			
Frame	449			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	80 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	135 Lb-Ft ²			
Ref Wdg	CHT44760004 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS620677			
Conn. Diag	EE7300BH			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0170	0.0120	0.1390	0.2720	5.2830



Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 447TTFC6683 AA

WINDING#: CHT44760004 NONE 1

CONN. DIAGRAM: EE7300BH

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620677

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&125	112&93	1200	1190&990	447T	TEFC	G	C

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	170&172	PWS & YDRUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95.8&95.4	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87&87	3/4 LOAD PF: 85	1/2 LOAD PF: 79	95	SQ CAGE INV RATED	50

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
662 LB-FT	1085	1375 LB-FT 208	1450 LB-FT 215	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	135 LB-FT^2	- LB-FT^2	25 SEC.	-	2975 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
NU319	6317						

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

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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: 06/21/2017 06:35:49 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

