marathon®

Kiln Duty Motors

Model No: 184TTTS18577
Catalog No: S504

Kiln Duty Motor, 2 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 184T Frame, TEAO

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Product Information Packet: Model No: 184TTTS18577, Catalog No: S504 Kiln Duty Motor, 2 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 184T Frame, TEAO

Nameplate Specifications

Phase	**3**	Output HP	**2 Hp**
Output KW	**1.5 kW**	Voltage	**460 V**
Speed	**1170 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**184T**
Enclosure	**Totally Enclosed Air Over**	Thermal Protection	**Thermostat**
Efficiency	**87.5 %**	Ambient Temperature	**90 °C**
Frequency	**60 Hz**	Current	**3.0 A**
Power Factor	**74**	Duty	**Continuous**
Insulation Class	**H**	Design Code	**B**
KVA Code	**J**	Drive End Bearing Size	**6206**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**N**
IP Code	**54**	Number of Speeds	**1**

Technical Specifications

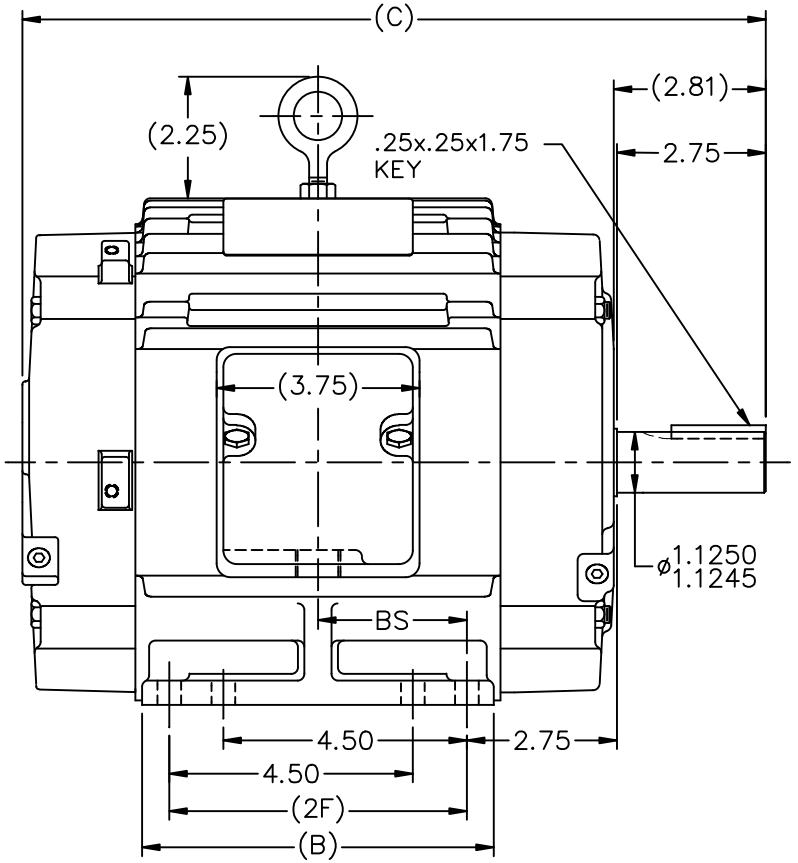
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**7.25 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball / Heat Stabilized**
Opp Drive End Bearing	**Ball / Heat Stabilized**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**13.74 in**
Frame Length	**6.75 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.81 in**	Assembly/Box Mounting	**F1/F2 Capable**
Inverter Load	**Variable 20:1**		

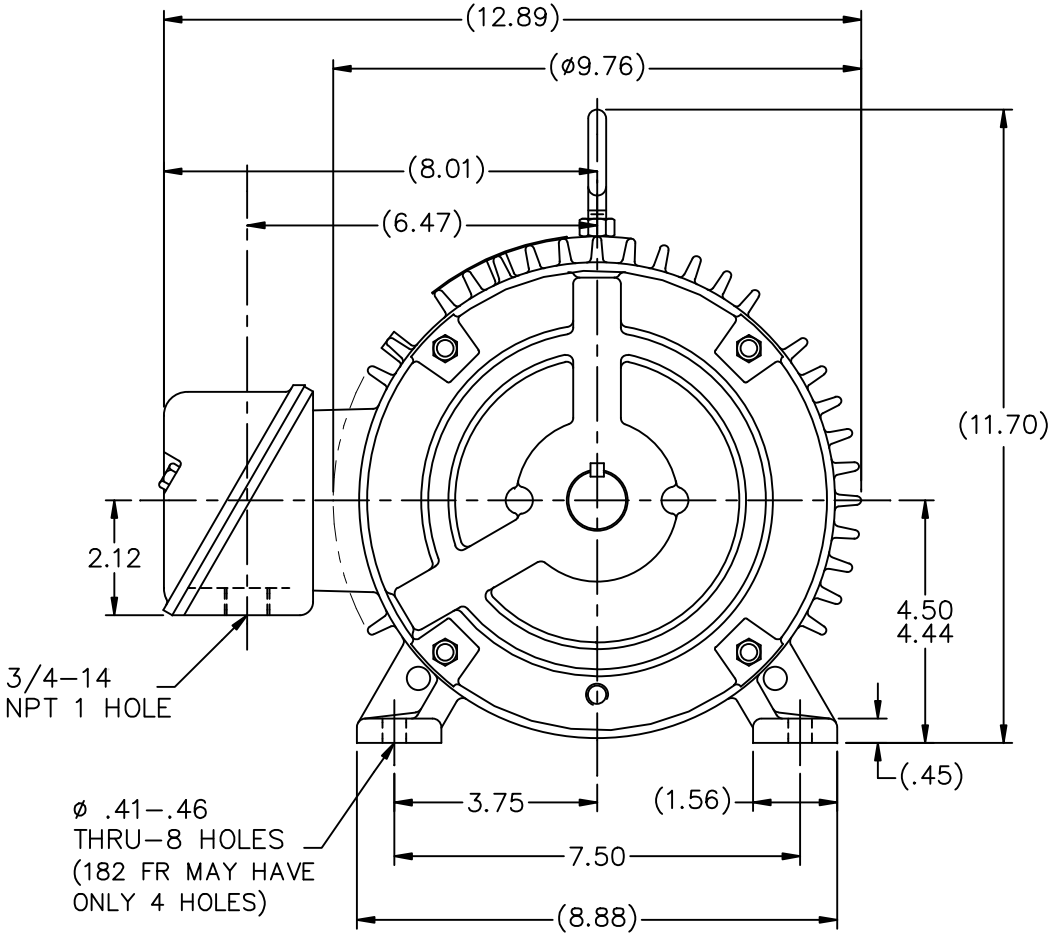
Drawings

Connection Drawing	**A-EE7300T**	Outline Drawing	**A-SS67889-675**

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SS67889





DASH	FR.	C	B	2F	BS	MOUNTING
575	182T	12.74	5.50	4.50	2.25	F1 OR F2
675	182/4T	13.74	6.50	5.50	2.75	F1 OR F2
800	182/4T	14.99	7.75	5.50	3.38	F1 ONLY

NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

01-17-2000

NO.	REVISION	BY & DATE	CHK
10	REVISED –575 MOUNTING MU98218	SJW 11/9/2010	
9	SHAFT EXT. WAS 2.72 NOW 2.75 CN46656	RJW 03-15-2007	ML
8	ADDED 2F DIMENSION TO DASH 575 CN 33528	TAT 04-01-2004	ML
7	SHOWED PROPER THREAD EXT. LOC. CN 29200–323	TJB 04-10-2000	
6	ADDED –675 W/ 182T FRAME & MTGS. CN 27400–320	CAE 01-17-2000	
5	ADDED FOUR MOUNTING HOLES IN BASE CN 26348	DRS 08-11-1998	

TOLERANCES UNLESS SPECIFIED	
DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

MARATHON ELECTRIC

TITLE OUTLINE
180 FR. – BB – TS – TENV

DRAWN	SMC 10–01–1992
CHK	MOL 10–01–1992
APPD	GK 10–01–1992
SCALE	9=32
REF	
FMF	
PREV	

MAT'L.
FINISH
CAD FILE ss67889
RFP
DIST LB

SIZE	DRAWING NO.	PAGE	OF	REV.
A	SS67889			10

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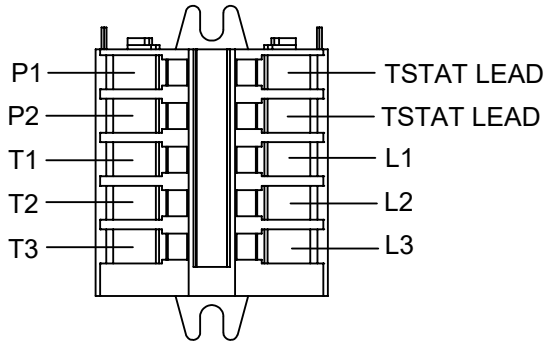
11/9/2010 11:52:48 AM

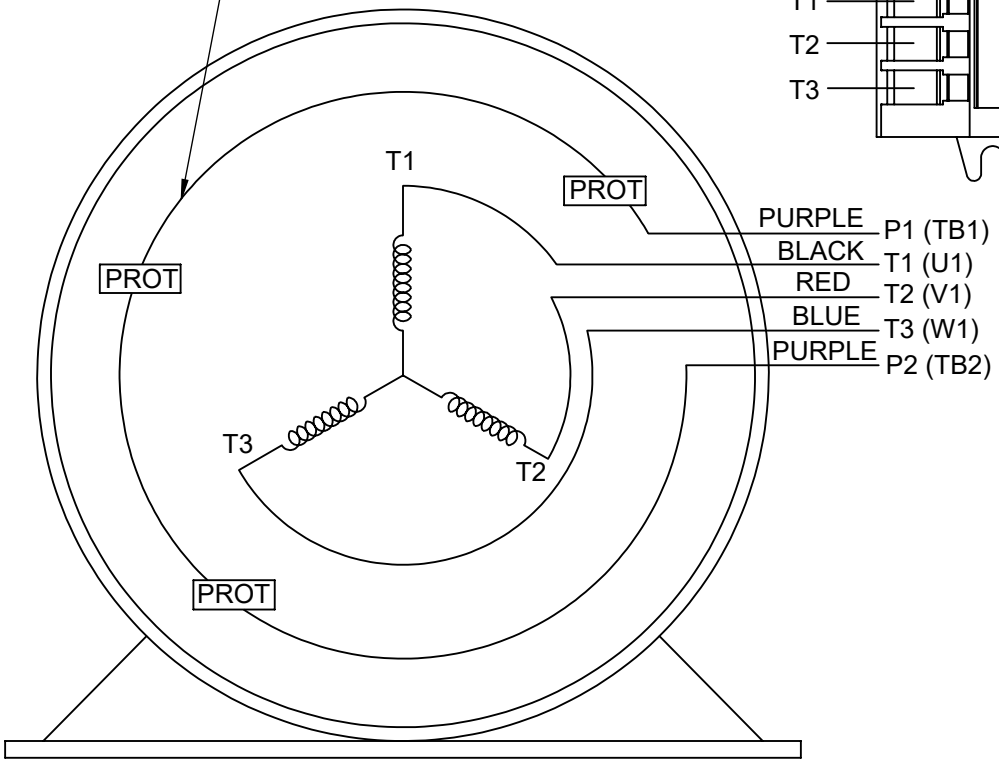
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

NOTE FOR FACTORY USE ONLY:
TO SURGE TEST:
FOR 3 LEAD COMMON CONNECT:
CONNECT P1 TO T1 THEN P2 TO L1
FOR 6 LEAD COMMON CONNECT:
CONNECT P1 TO BOTH T1
THEN P2 TO L1

TERMINIAL BLOCK WHEN SPECIFIED

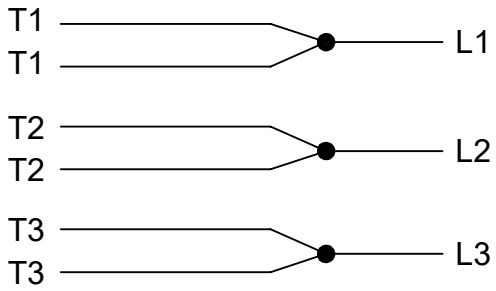




VIEW OF TERMINAL END

T2BM
T6AW
T6AL
T6Z
T4EG
T4BF
T8A
T6H
T6A
T4AX
T4A
T2A
T2F

IF MOTOR HAS MULTIPLE
T'S PER LEAD CONNECT
TOGETHER LIKE T'S



A-9806 DECAL

DRAWING REVISION AC	REVISION BY SB	REV DATE/© DATE 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY LZ	marathon™
REQUEST NUMBER CR-0023654	APPROVED BY SBD	DATE 08/01/2025		DATE 01-04-1994	
REQUEST NUMBER DESCRIPTION DRAWING TITLE BLOCK UPDATED				APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-SINGLE VOLT-MOTOR WITH PROTECTOR
				DATE 01-20-1994	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE A / DRAWING NUMBER EE7300T / SHEET 1 OF 1

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Data Sheet

Date: 15-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

184TTTS18577

Submittal

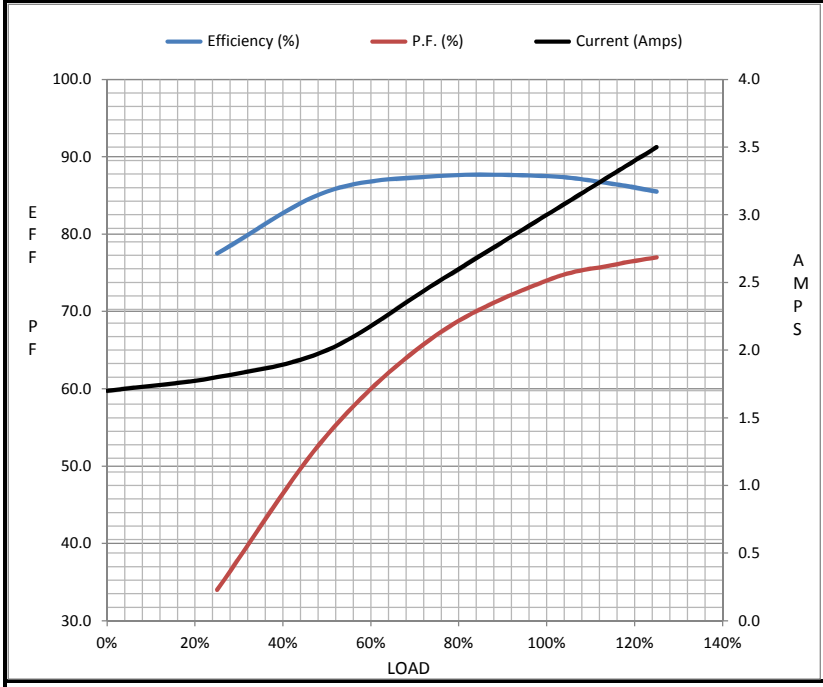
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.70	1.80	2.00	2.50	3.0	3.3	3.5	18.2	
Torque (ft-lb)	0.00	2.20	4.5	6.7	9.0	10.5	11.4	15.5	
RPM	1200	1192	1185	1178	1170	1,165	1160	0	
Efficiency (%)		77.5	85.5	87.5	87.5	86.5	85.5		
P.F. (%)	7.0	34.0	54.0	67.0	74.0	76.0	77.0	45.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	975	1170	1200
Current (Amps)	18.2	16.5	11.0	3.0	1.70
Torque (ft-lb)	15.5	13.5	23.5	9.0	0.00



Information Block

HP	2.0
Sync. RPM	1200
Frame	184
Enclosure	TEAO
Construction	TTS
Voltage	460 V
Frequency	60 Hz
Design	B
LR Code letter	J
Service Factor	1.15
Temp Rise @ FL	0 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.40 Lb-Ft²
Ref Wdg	K184672 NONE
Sound Pressure @ 1M	999 dBA
VFD Rating	VARIABLE 20:1
Outline Dwg	A-SS67889-675
Conn. Diag	A-EE7300T

Additional Specifications:

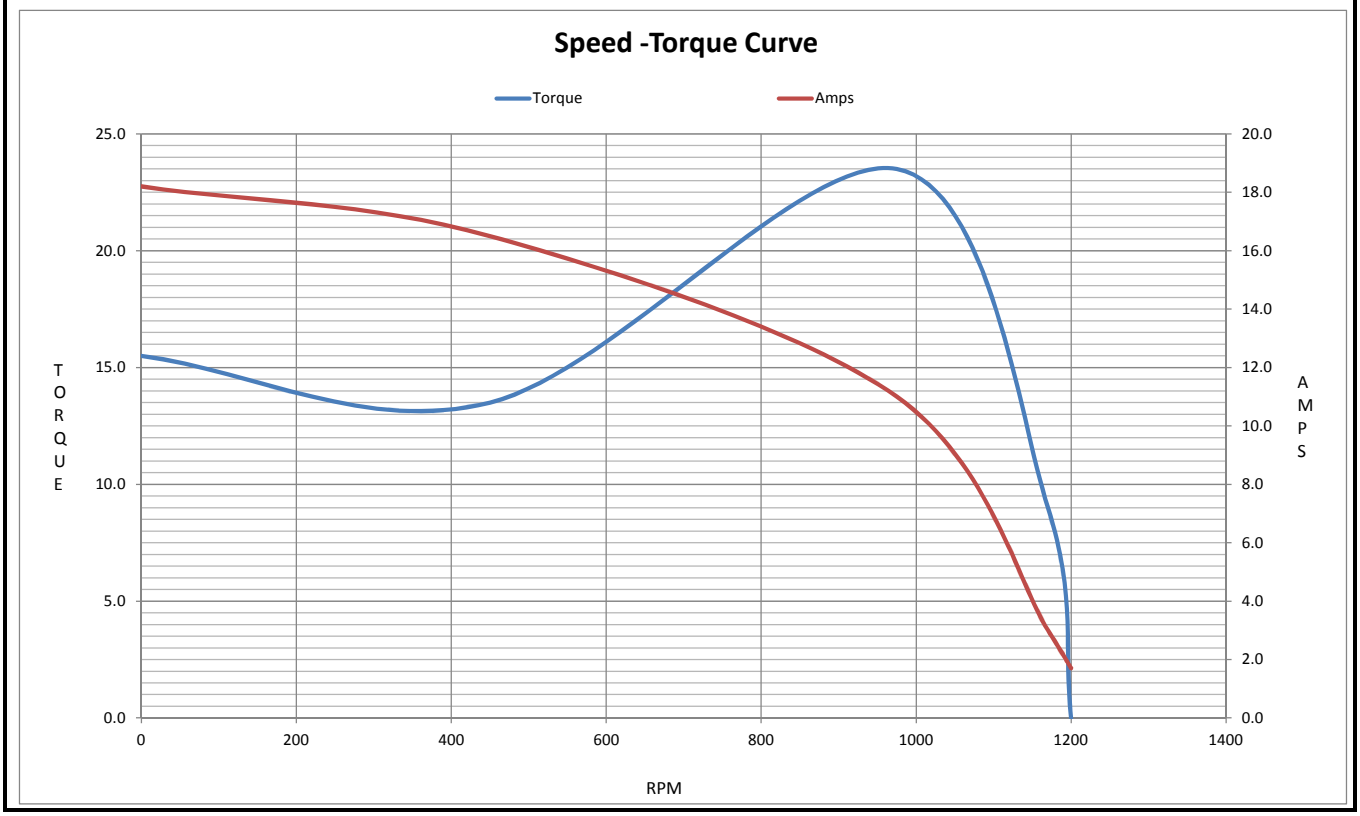
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365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
4.0190	2.5130	10.5220	11.9850	157.3360

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	184TTTS18577 BR	**WINDING#:**	K184672 NONE 2
CONN. DIAGRAM:	A-EE7300T	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	A-SS67889-675		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	1200	1170	184T	TEAO	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	3	LINE OR INVERTER	CONTINUOUS	H4	1.15	90	3300

FULL LOAD EFF: 87.5	3/4 LOAD EFF: 87.5	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 74	3/4 LOAD PF: 67	1/2 LOAD PF: 54	85.5	SQ CAGE INV RATED	1.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	18.2	15.5 LB-FT 172	23.5 LB-FT 261	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.4 LB-FT^2	- LB-FT^2	25 SEC.	-	110 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						
BALL / HEAT STABILIZED 6206	BALL / HEAT STABILIZED 6205	DC 44M	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON

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

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: VARIABLE 20:1
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

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