PRODUCT INFORMATION PACKET

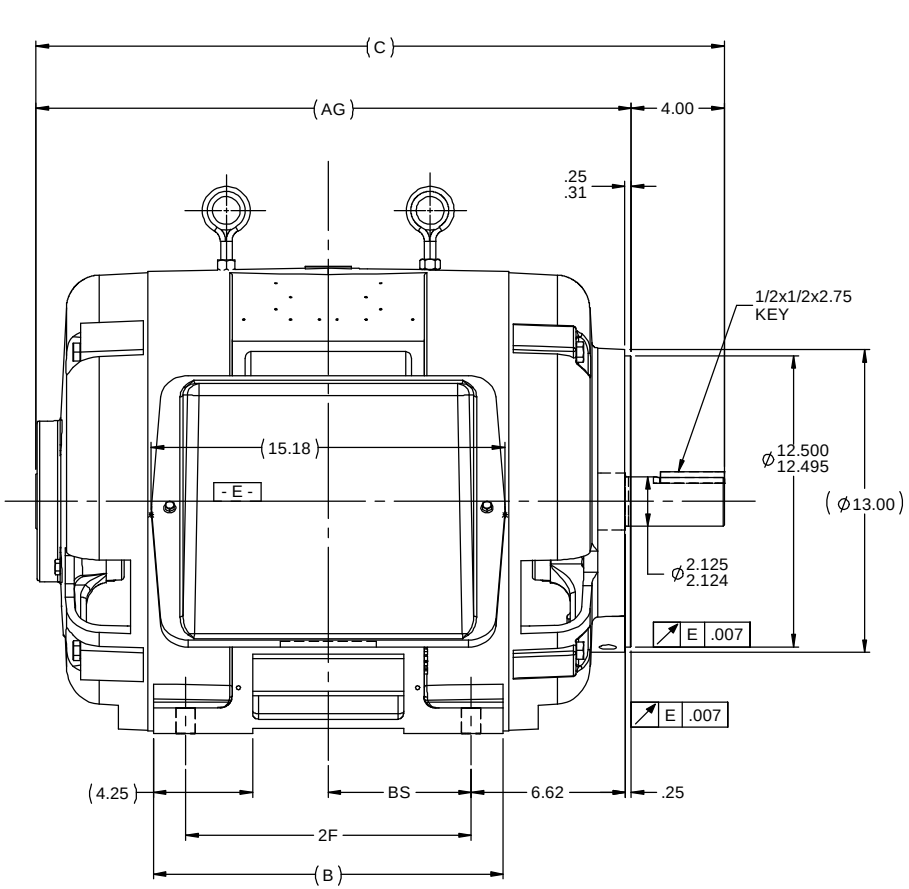
Model No: 405TSTDS16005
Catalog No: U455A
150,3600,DP,405TSC,3/60/460 PWS/YD
Open Drip Proof (ODP)

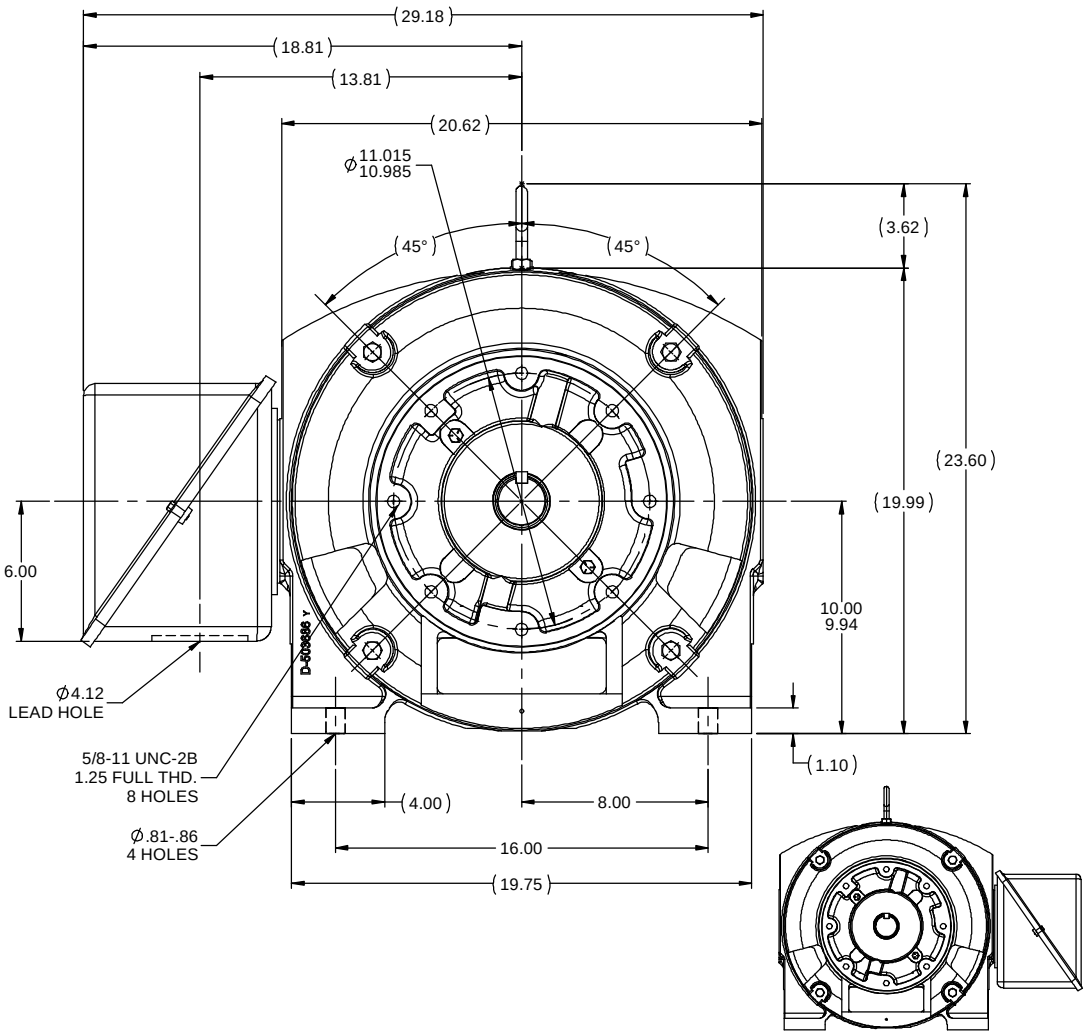
Nameplate Specifications

Output HP	**150 Hp**	Output KW	**112.0 kW**
Frequency	**60 Hz**	Voltage	**460 V**
Current	**165.0 A**	Speed	**3565 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**95 %**	Duty	**Continous**
Insulation Class	**B**	Design Code	**B**
KVA Code	**F**	Frame	**405TSC**
Enclosure	**Drip Proof**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6313**
Opp Drive End Bearing Size	**6313**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**12**		

Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Part Wdg Start & Wye Start Delta Run**
Poles	**2**	Rotation	**Reversible**
Mounting	**Rigid base**	Motor Orientation	**Horizontal**
Drive End Bearing	**Ball**	Opp Drive End Bearing	**Ball**
Frame Material	**Cast Iron**	Shaft Type	**TS**
Overall Length	**31 in**	Frame Length	**17.00 in**
Shaft Diameter	**2.125 in**	Shaft Extension	**4 in**
Assembly/Box Mounting	**F1/F2 Capable**		
Outline Drawing	**B-SS510954-1700**	Connection Diagram	**A-EE7300BH**





F2 VIEW

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

DASH	FRAME	B	C	2F	AG	BS
1550	404TSC	15.00	29.50	12.25	25.50	6.12
1700	405TSC	16.50	31.00	13.75	27.00	6.88

NO	REVISION	BY & DATE	CHK
07	ADDED F2 VIEW PER MU108019, REDRAWN IN SOLIDWORKS	JG 07/16/2012	DJK
06	REDRAWN IN AUTOCAD	TAT 06/29/2004	ML
05	REPLACED ONE EYEBOLT FOR TWO CN28063	BJW 2/10/2000	
04	UPDATED C'BOX GEOMETRY CN28063	TRB 02/10/2000	
03	REDRAWN IN AUTOCAD	TLB 02/29/1988	

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±1/2°

marathon electric

TITLE OUTLINE
400TSC FR. - DR. PR. - (STD) - C'FACE
MAT'L
FINISH

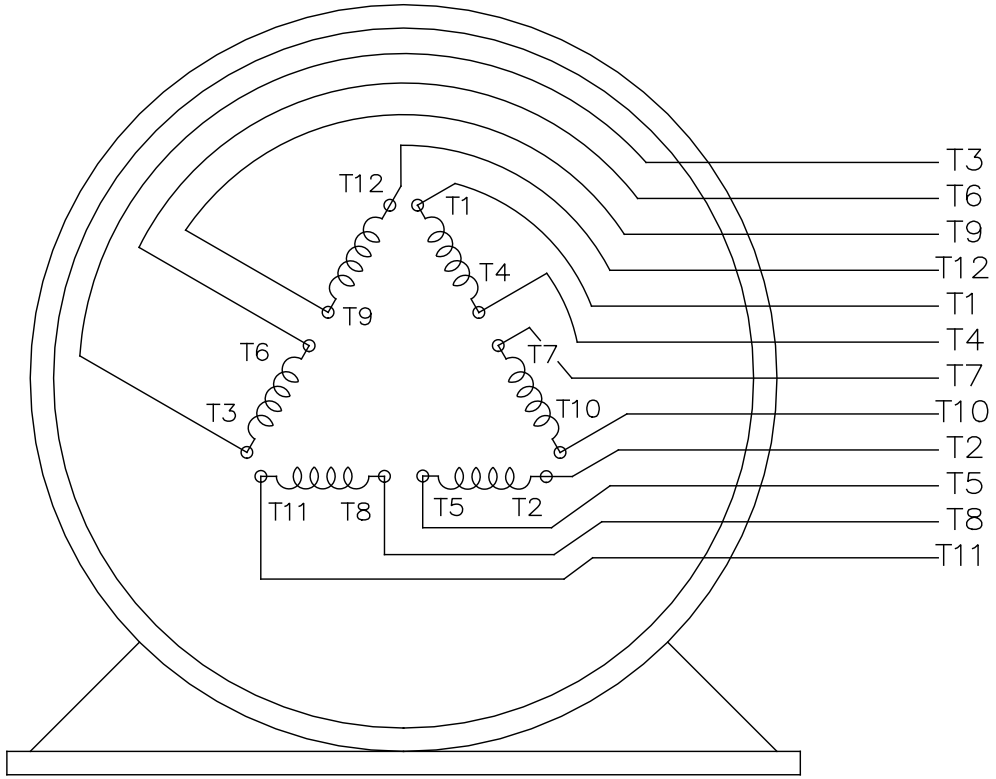
DRAWN TLB 02/29/1988
CHK FG 02/29/1988
APPR GK 02/29/1988
SCALE 3:16
REF
FMF
PAGE OF

THIRD ANGLE PROJECTION

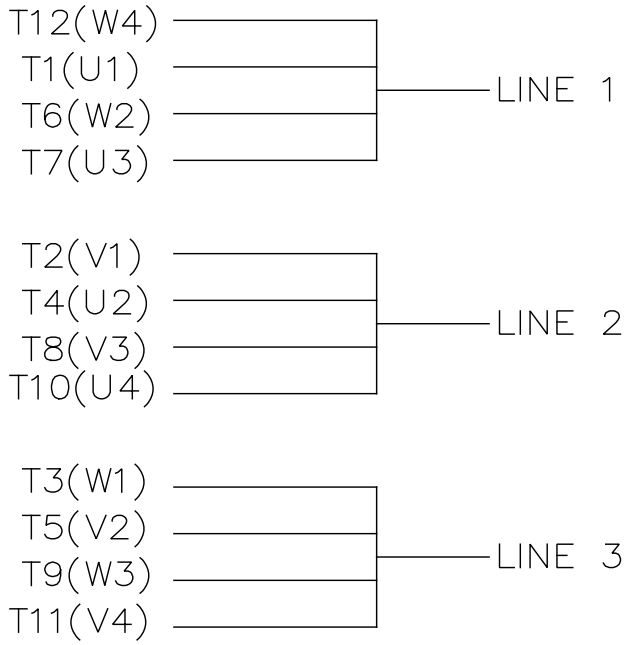
RFP
PREV
NETWORK FILE NAME SS510954

SIZE B
DRAWING NO SS510954
REV 07

EE7300BH



VIEW OF TERMINAL END



				TOLERANCES UNLESS SPECIFIED			
				DEC.	INCHES	REGAL - BELOIT CORPORATION	DRAWN RJW 02–11–2005
							CHK ML 02–11–2005
				.X	±.1		APPD GK 02–11–2005
				.XX	±.02	TITLE CONNECTION DIAGRAM	SCALE
D	CHANGED TO REGAL TITLE BLOCK ECO–0108299	WGJ 08/22/2016	EMH	.XXX	±.005	12 LEAD– SINGLE VOLTAGE	REF
1	ADDED IEC TERMINAL MARKINGS CN 41429	JJB 05/24/2007	ML	.XXXX	±.0005	MAT'L.	FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV

RFP 02–11–2005
DIST LB
CAD FILE ee7300bh

SIZE	DRAWING NO. PAGE OF	REV.
A	EE7300BH	C

CERTIFICATION DATA SHEET

Model#:	405TSTDS16005 AN	**WINDING#:**	T405241 NONE 2
CONN. DIAGRAM:	A-EE7300BH	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS510954-1700		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&125	112&93	3600	3565&2965	405TSC	DP	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	165&167	PWS & YDRUN	CONTINUOUS	B1	1.15/1.15	40	3300

FULL LOAD EFF: 95&94.1	3/4 LOAD EFF: 95	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89.5&90	**3/4 LOAD PF: 88.5**	**1/2 LOAD PF: 84.5**	94.5	SQ CAGE IND RUN	38.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
221 LB-FT	1020	290 LB-FT 130	560 LB-FT 253	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
82 dBA	92 dBA	16.5 LB-FT^2	140 LB-FT^2	10 SEC.	2	1100 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

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

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

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

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DATE: 06/21/2017 08:20:52 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

405TSTDS16005

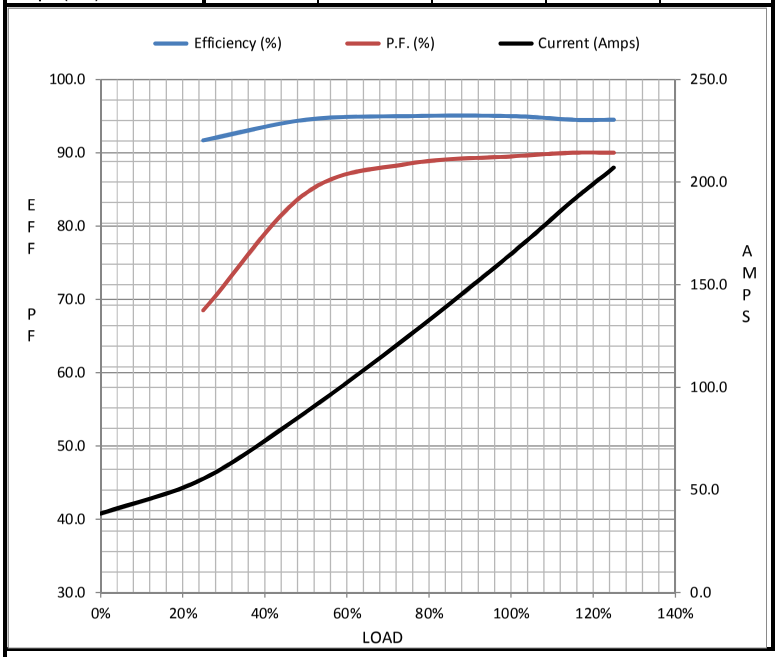
Submittal
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	38.5	55.5	88.0	125	165	191	207	1,020	
Torque (ft-lb)	0.00	55.0	110	165	221	255	276	290	
RPM	3600	3592	3585	3575	3565	3,560	3555	0	
Efficiency (%)		91.7	94.5	95.0	95.0	94.5	94.5		
P.F. (%)	7.5	68.5	84.5	88.5	89.5	90.0	90.0	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3400	3565	3600
Current (Amps)	1,020	915	610	165	38.5
Torque (ft-lb)	290	240	560	221	0.00



Information Block

HP	150.0
Sync. RPM	3600
Frame	405
Enclosure	DP
Construction	TDS
Voltage	460#380 V
Frequency	60 Hz
Design	B
LR Code letter	F
Service Factor	1.15
Temp Rise @ FL	45 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	16.5 Lb-Ft²
Ref Wdg	T405241 NONE
Sound Pressure @ 1M	82 dBA
VFD Rating	NONE
Outline Dwg	B-SS510954-1700
Conn. Diag	A-EE7300BH
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0220	0.0130	0.1870	0.1440	6.0900