PRODUCT INFORMATION PACKET

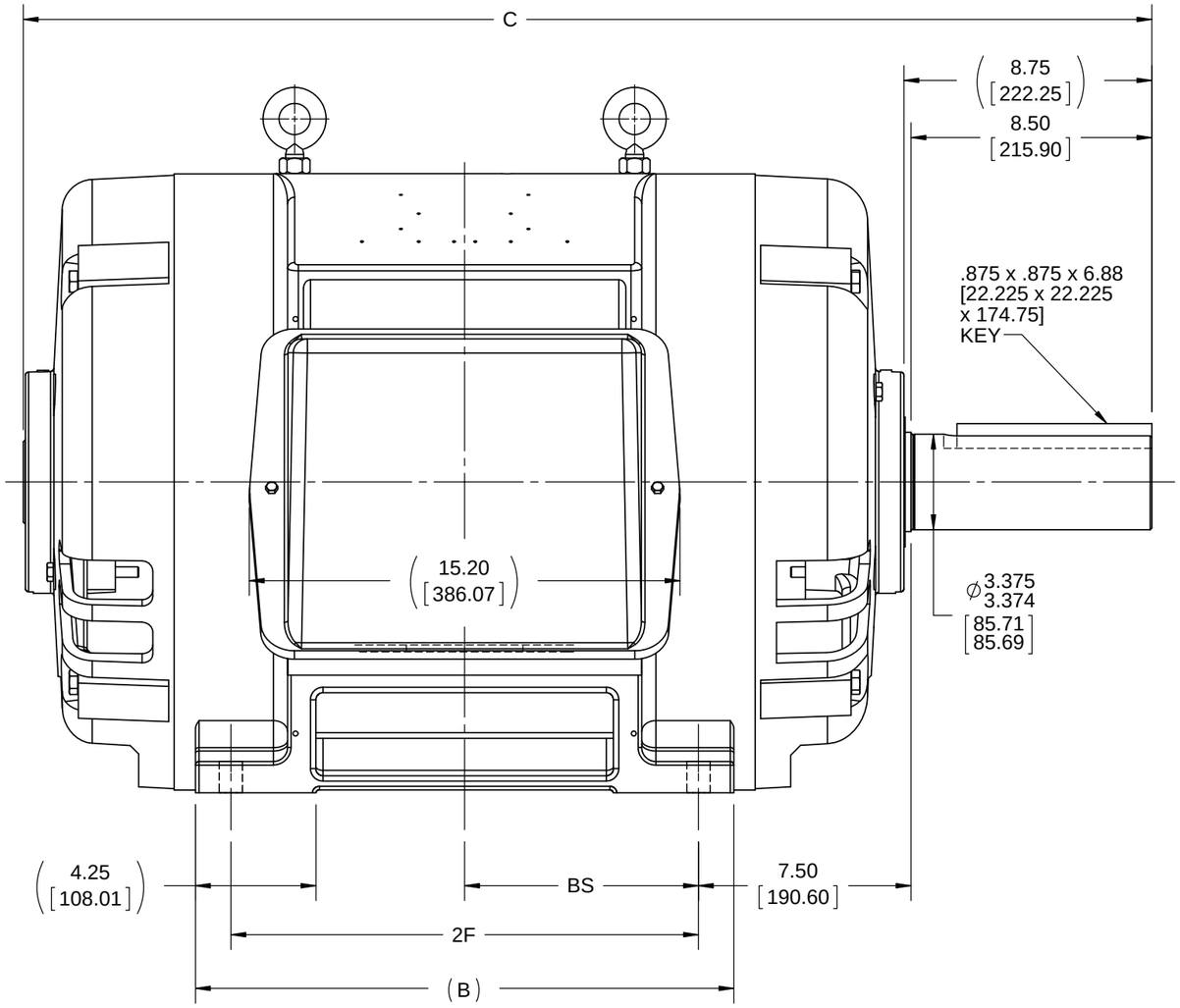
Model No: 445TTDS16076
Catalog No: U273
XRI® General Purpose General Purpose Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM, 445T Frame, DP

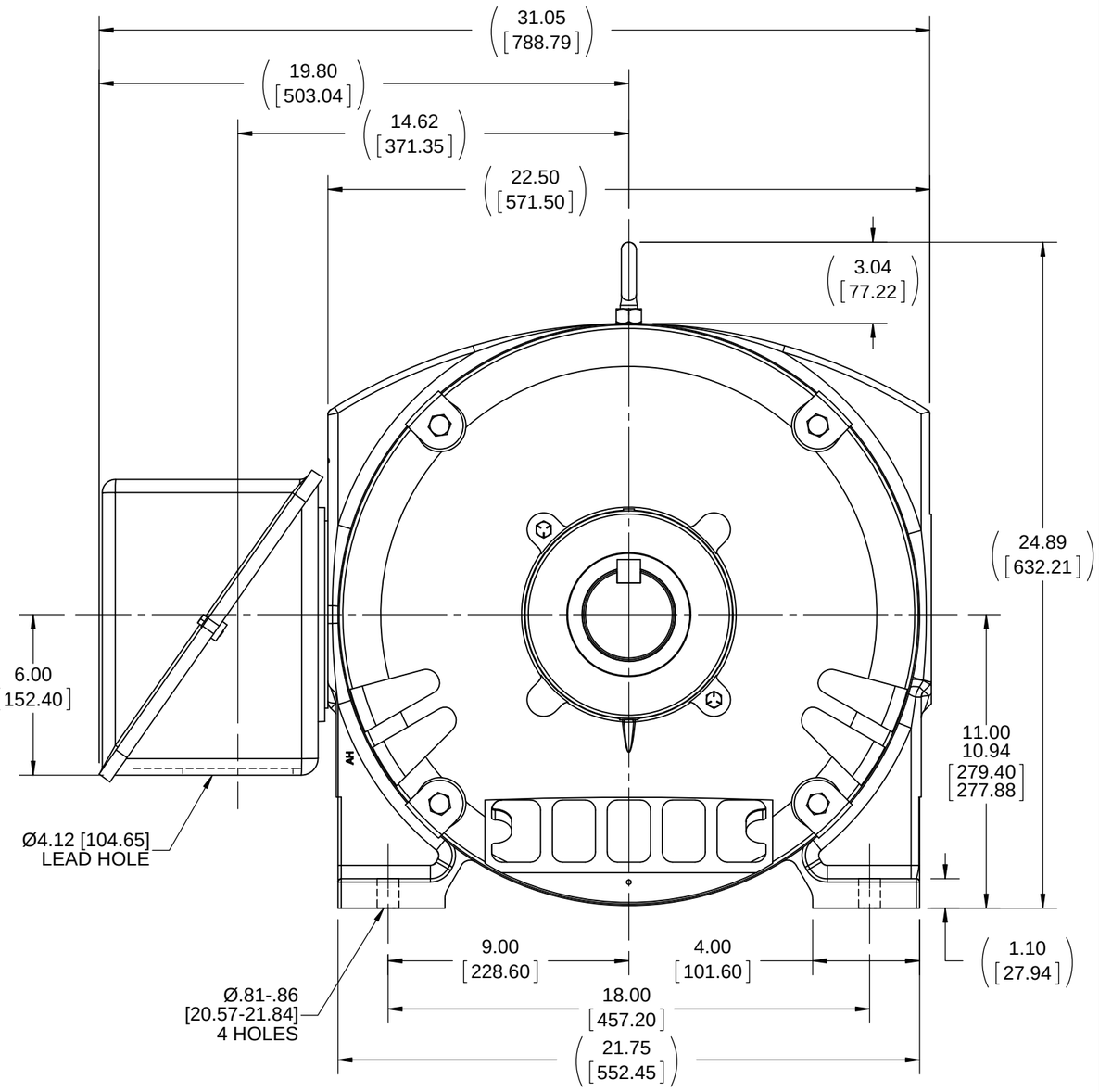
Nameplate Specifications

Phase	3	Output HP	125 & 100 Hp
Output KW	93.0 & 75.0 kW	Voltage	460 & 380 V
Speed	1190 & 990 rpm	Service Factor	1.15 & 1.0
Frame	445T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95 & 94.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	145 & 141 A	Power Factor	84.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	Recognized	CSA	Y
CE	Y	IP Code	12
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	.055 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	39.83 in
Frame Length	20.50 in	Shaft Diameter	3.375 in
Shaft Extension	8.75 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	VARIABLE 10:1		
Outline Drawing	B-SS509449-2050	Connection Drawing	A-EE7300CB





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. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	BS	
1850	444T	17.00 [431.80]	37.83 [960.88]	14.50 [368.30]	7.25 [184.15]	
2050	445T	19.00 [482.60]	39.83 [1011.68]	16.50 [419.10]	8.25 [209.55]	

DRAWING REVISION C	REVISION BY JJB	DATE 11-10-2016
ECO ECO-0112780	APPROVED BY TDB	DATE 11-10-2016

ECO DESCRIPTION
UPDATED TO CURRENT STD'S. & DWG. MARK UP

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY	TLB
DATE	03-11-1988
APPROVED BY	ML
DATE	03-11-1988
REFERENCE	

THIRD ANGLE PROJECTION

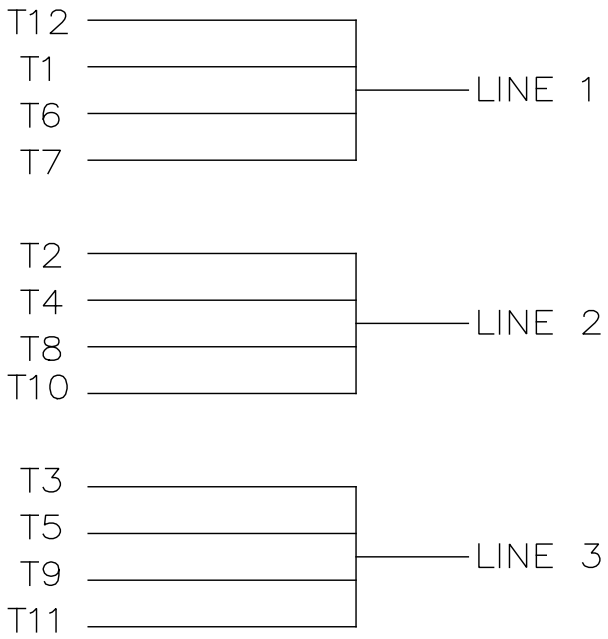
Regal Beloit America, Inc.

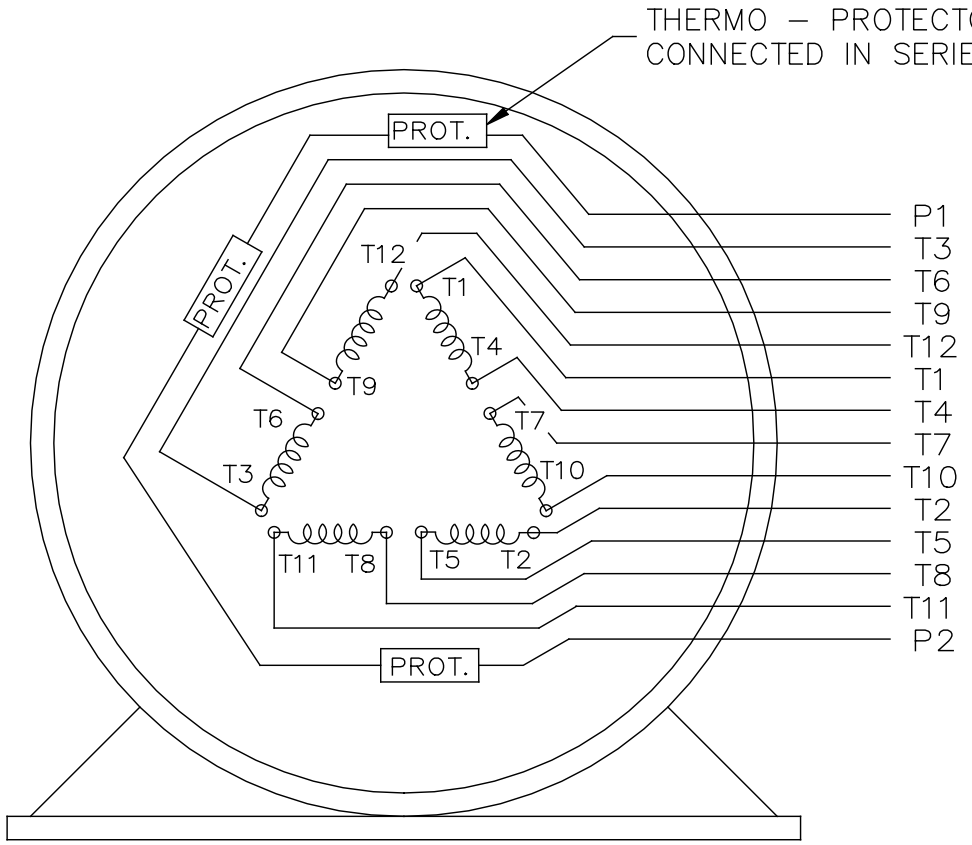
DESCRIPTION
OUTLINE
440T FR. - DR. PR. - NO SCREENS

MATERIAL | PROCESS/FINISH

SIZE B | DRAWING NUMBER SS509449 | SHEET 1 OF 1

EE7300CB





VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			REGAL - BELOIT CORPORATION	DRAWN KL 02–27–2003	
				DEC.	INCHES			CHK GFH 03–03–2003	
				.X	± –			APPD JES 03–03–2003	
				.XX	± –		TITLE CONNECTION DIAGRAM – EXTERNAL 12 LEAD SINGLE VOLTAGE	SCALE 1=1	
				.XXX	± –			REF	
A	CHANGED TO REGAL TITLEBLOCK ECO–0108299	WGJ 08–18–2016	EMH	.XXXX	± –		MAT'L.	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	± –		FINISH	PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT			RFP				CAD FILE EE7300CB	SIZE A	DRAWING NO. EE7300CB PAGE OF	REV.
			DIST						

CERTIFICATION DATA SHEET

Model#:	445TTDS16076 AN	**WINDING#:**	T445657 NONE 3
CONN. DIAGRAM:	A-EE7300CB	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS509449-2050		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125&100	93&75	1200	1190&990	445T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	145&141	PWS & YDRUN OR INV	CONTINUOUS	F1	1.15/1.0	40	3300

FULL LOAD EFF: 95&94.5	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 84.5&84	**3/4 LOAD PF: 82**	**1/2 LOAD PF: 75**	94.5	SQ CAGE INV RATED	45

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
552 LB-FT	900	1025 LB-FT 186	1300 LB-FT 236	42

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
76 dBA	86 dBA	85 LB-FT^2	1700 LB-FT^2	20 SEC.	2	1500 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6318	BALL 6316	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: VARIABLE 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

* NOTES *

DATE: 06/21/2017 05:44:14 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 16-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

445TTDS16076

Submittal

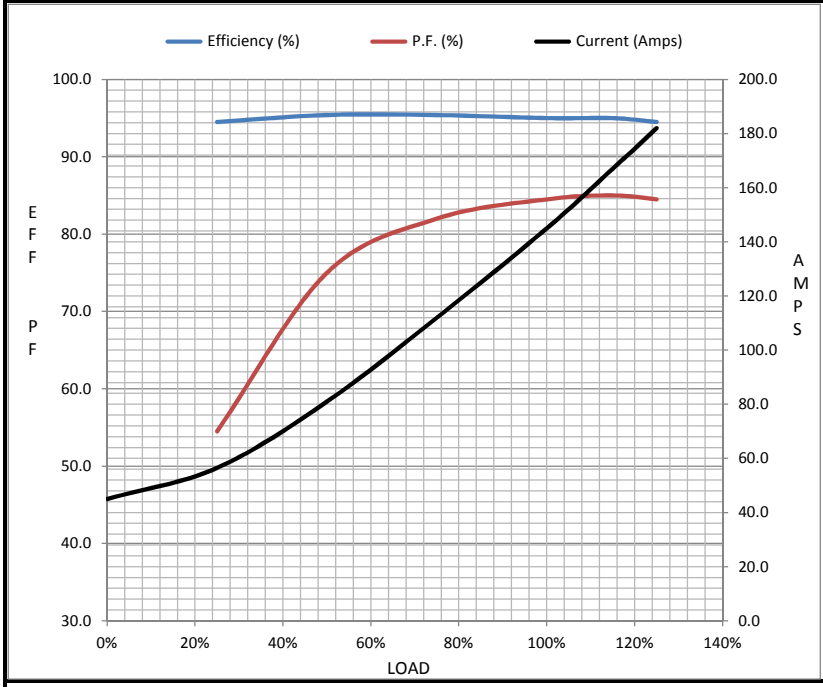
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	45.0	56.5	81.0	112	145	167	182	900	
Torque (ft-lb)	0.00	137	275	413	552	636	692	1,025	
RPM	1200	1197	1194	1192	1190	1,187	1185	0	
Efficiency (%)		94.5	95.4	95.4	95.0	95.0	94.5		
P.F. (%)	8.0	54.5	75.0	82.0	84.5	85.0	84.5	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1125	1190	1200
Current (Amps)	900	700	475	145	45.0
Torque (ft-lb)	1,025	825	1,300	552	0.00



Information Block

HP	125.0
Sync. RPM	1200
Frame	445
Enclosure	DP
Construction	TDS
Voltage	460#380 V
Frequency	60 Hz
Design	A
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	42 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	85.0 Lb-Ft²
Ref Wdg	T445657 NONE
Sound Pressure @ 1M	76 dBA
VFD Rating	VARIABLE 10:1
Outline Dwg	B-SS509449-2050
Conn. Diag	A-EE7300CB

Additional Specifications:

0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0280	0.0140	0.1840	0.3270	5.7250

Speed -Torque Curve