PRODUCT INFORMATION PACKET

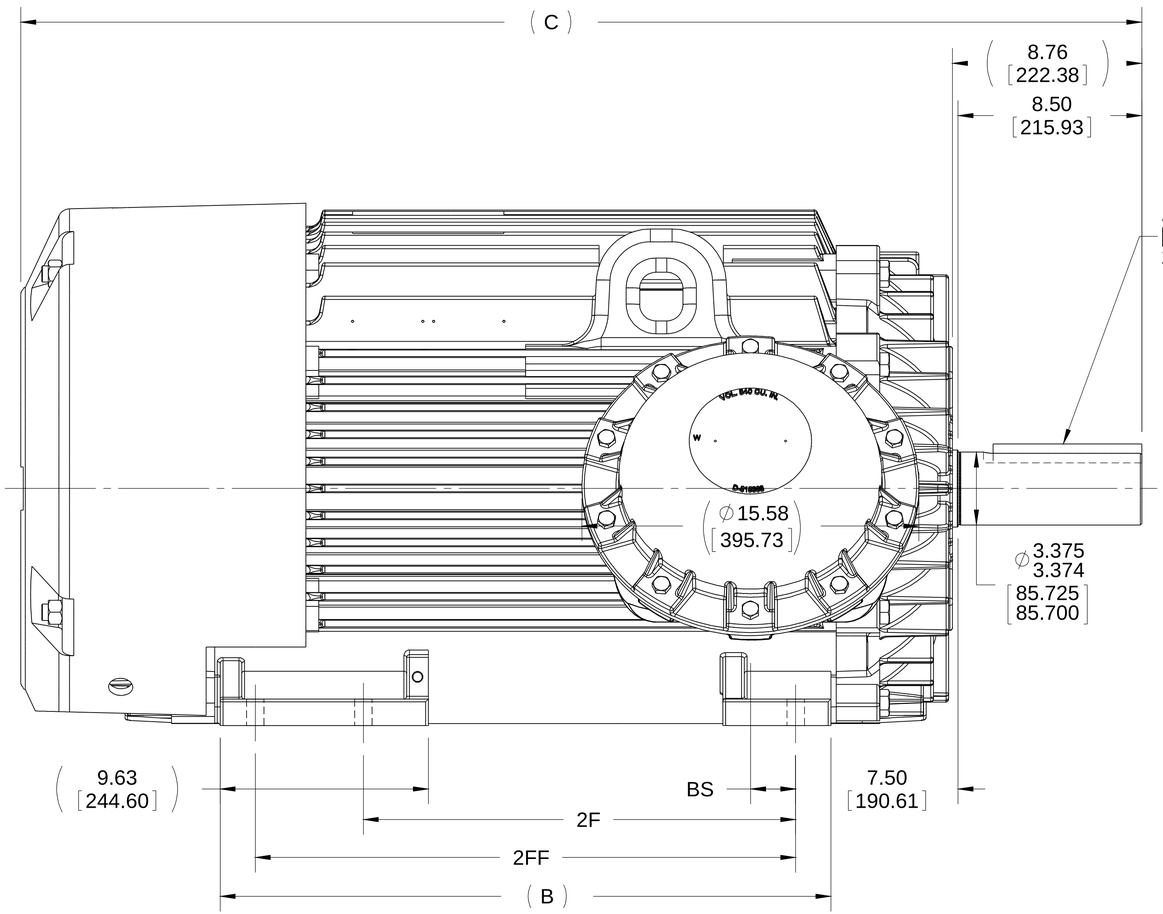
Model No: 449TTGS16585
Catalog No: U091A
Explosion Proof Motor, 200 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 449T Frame, EPFC

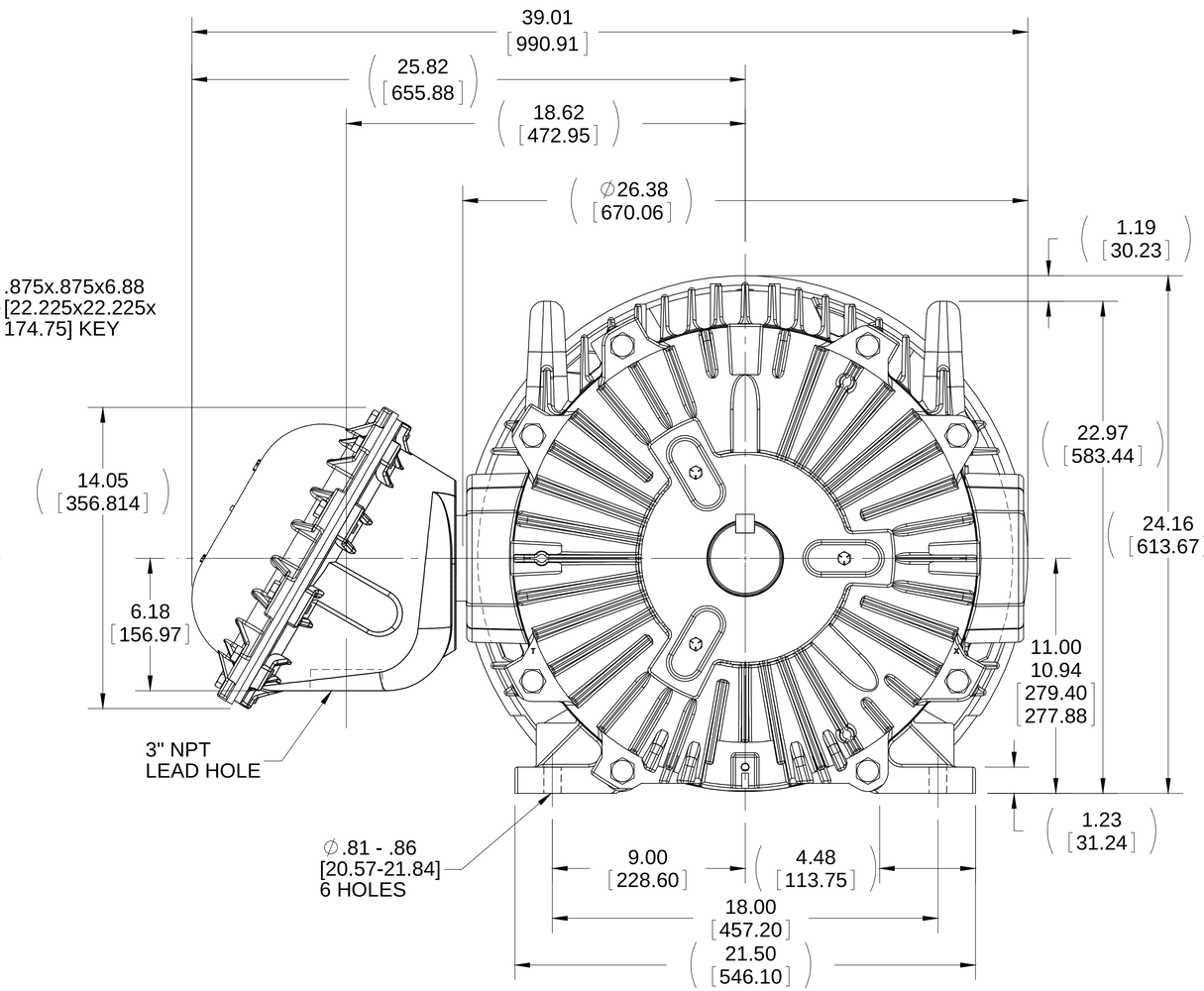
Nameplate Specifications

Output HP	200 Hp	Output KW	149.0 kW
Frequency	60 Hz	Voltage	460 V
Current	240.0 A	Speed	1190 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	449T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	NU319	Opp Drive End Bearing Size	6318
UL	UL Listed; also, UL Certified for Canada	CSA	N
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.016 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	51.85 in
Frame Length	28.75 in	Shaft Diameter	3.375 in
Shaft Extension	8.76 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Outline Drawing	B-SS515578-2875	Connection Drawing	A-EE7300S





NOTES:
1. CONDUIT BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
2875	447T	28.25 [717.55]	51.85 [1316.99]	20.00 [508.00]	------	2.09 [53.09]
2875	449T	28.25 [717.55]	51.85 [1316.99]	------	25.00 [635.00]	2.09 [53.09]

DRAWING REVISION	REVISION BY	DATE
C	AJW	03-31-2015
ECO	APPROVED BY	DATE
ECO-0074730	TDB	04-01-2015

ECO DESCRIPTION
UPDATED TO CURRENT STANDARDS

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	SMC
DATE	04-15-1996
APPROVED BY	JPN
DATE	04-19-1996
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
447/449T FR. -EXP. PR.- STD.

MATERIAL	PROCESS/FINISH

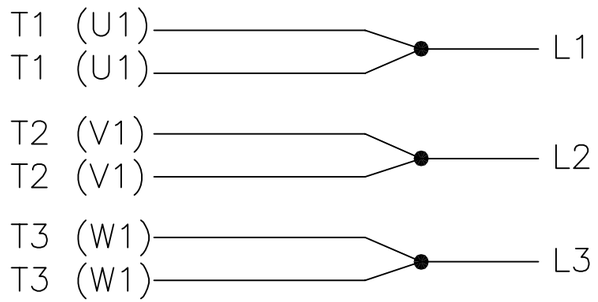
SIZE	DRAWING NUMBER	SHEET
B	SS515578	1 OF 1

EE7300S

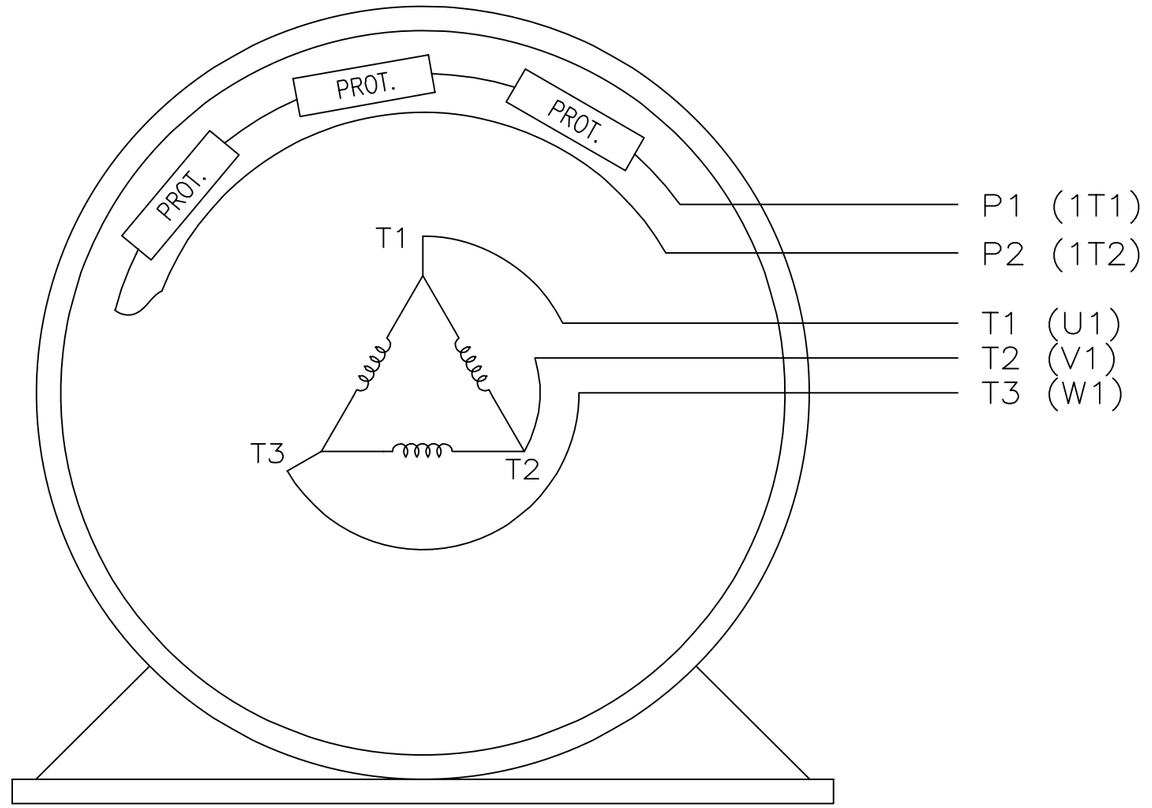
THREE PHASE – SINGLE VOLTAGE MOTOR

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

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



A–9806 DECAL



VIEW OF TERMINAL END

NO.	REVISION	BY & DATE	CHK
F	UPDATED TITLE BLOCK	HV 02-27-2014	EWH
3	REMOVED "N.C." FROM PROT.'S MU61770	JJB 08-02-2010	
2	ADDED IEC MARKINGS MU61770	KL 09-16-2004	EAB
1	NEW DRAWING	KL 12-16-1999	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	± –
.XX	± –
.XXX	± –
.XXXX	± –
ANG	± –

REGAL BELOIT REGAL-BELOIT CORPORATION

TITLE CONNECTION DIAGRAM – EXTERNAL
SINGLE VOLTAGE 3Ø MOTOR

MAT'L.

FINISH

CAD FILE ee7300s

RFP

DIST WA–LB–SB

DRAWN	KL 12–15–1999
CHK	DJK 12–15–1999
APPD	DJK 12–15–1999
SCALE	1=1
REF	
FMF	
PREV	

SIZE A | DRAWING NO. EE7300S | PAGE OF | REV. F

CERTIFICATION DATA SHEET

Model#:	449TTGS16585 AA	**WINDING#:**	T449627 R4 3
CONN. DIAGRAM:	A-EE7300S	**ASSEMBLY:**	F1 ONLY
OUTLINE:	B-SS515578-2875		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
200&150	149&112	1200	1190&985	447/449T	EPFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	240&220	LINE OR INVERTER	CONTINUOUS	F1	1.15/1.15	40	3300

FULL LOAD EFF: 95.8&95.4	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81&80	3/4 LOAD PF: 78	1/2 LOAD PF: 70	95.4	SQ CAGE INV RATED	87

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
883 LB-FT	1450	1325 LB-FT 150	2100 LB-FT 240	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	115 LB-FT^2	2700 LB-FT^2	25 SEC.	-	2850 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	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
ROLLER	BALL	POLYREX EM	T	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON
NU319	6318						

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: CONSTANT 10:1
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

*
NOTES
*

DATE: 06/21/2017 07:28:57 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/29/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon electric

449TTGS16585

Submittal

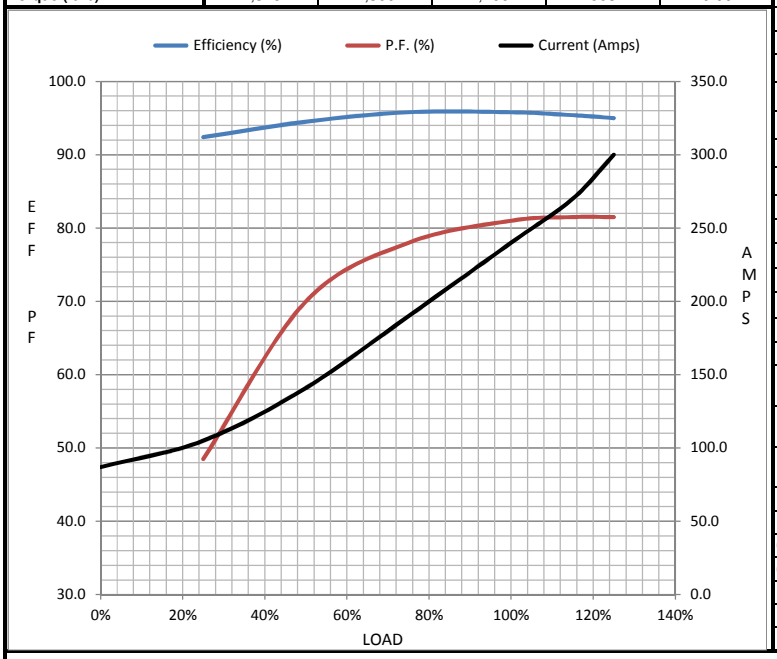
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	87.0	105	141	190	240	270	300	1,450	
Torque (ft-lb)	0.00	220	440	661	883	995	1,108	1,325	
RPM	1200	1196	1194	1192	1190	1,188	1186	0	
Efficiency (%)		92.4	94.5	95.8	95.8	95.4	95.0		
P.F. (%)	4.0	48.5	70.0	78.0	81.0	81.5	81.5	25.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1075	1190	1200
Current (Amps)	1,450	1,350	825	240	87.0
Torque (ft-lb)	1,325	1,300	2,100	883	0.00



Information Block

HP	200.0
Sync. RPM	1200
Frame	449
Enclosure	TEFC
Construction	TFN
Voltage	460#380 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	65 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	115 Lb-Ft²
Ref Wdg	T449627 R4
Sound Pressure @ 1M	75 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	B-SS515578-2875
Conn. Diag	A-EE7300S
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0100	0.0100	0.1250	0.1600	2.7410

Speed -Torque Curve