PRODUCT INFORMATION PACKET

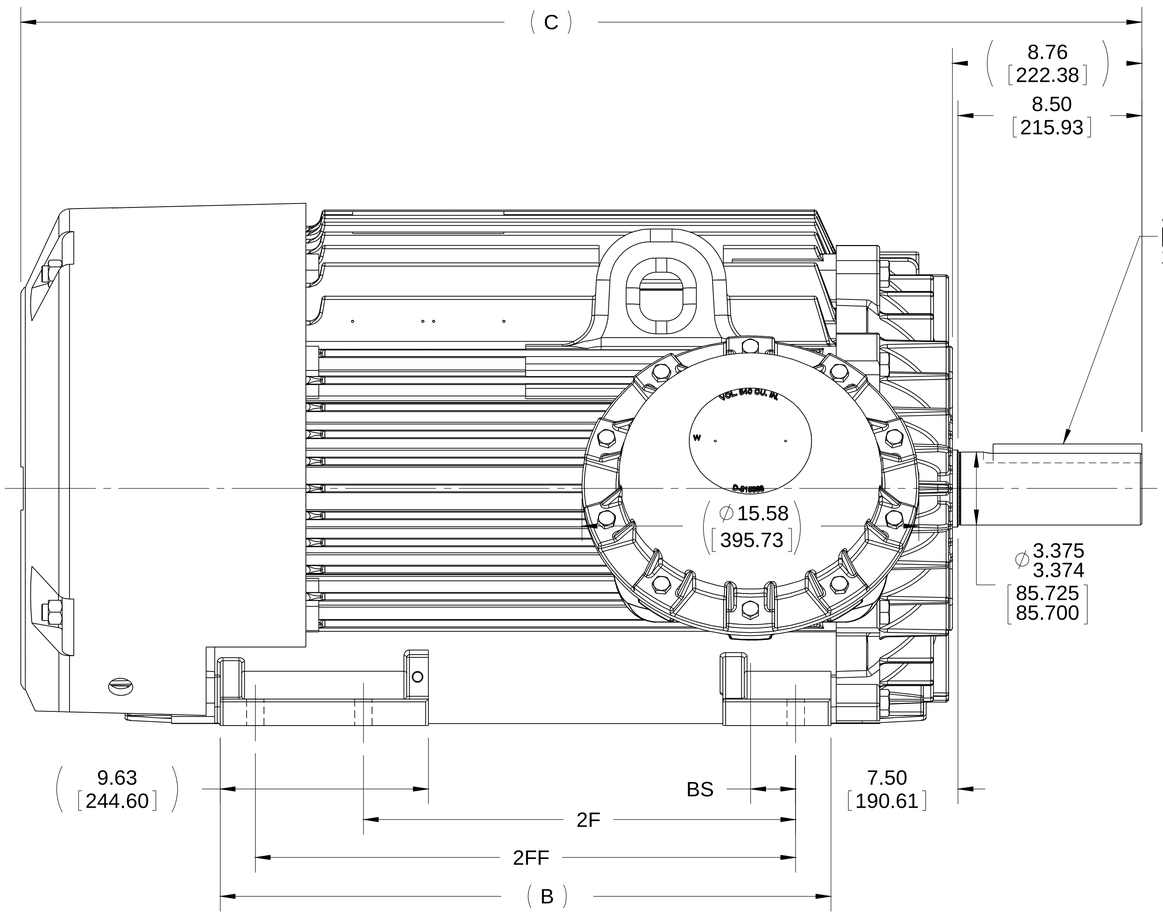
Model No: 825339.00
Catalog No: 825339.00
Explosion Proof Motor, 250 & 200 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 447/449T Frame, EPFC

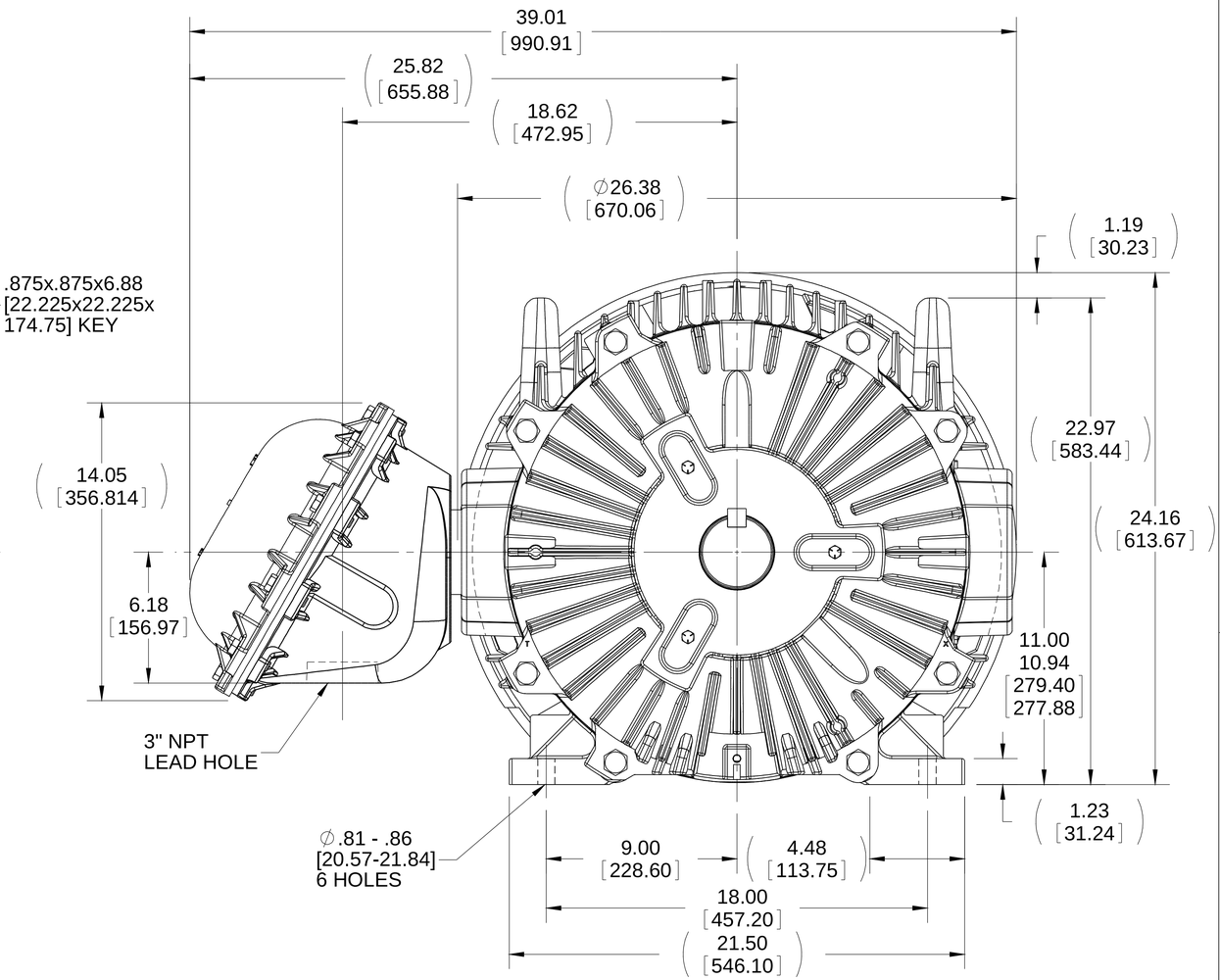
Nameplate Specifications

Phase	3	Output HP	250 & 200 Hp
Output KW	187.0 & 149.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.0 & 1.0
Frame	447/449T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	96.5 & 95.8 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	285 & 275 A	Power Factor	86
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6318
UL	UL Listed; also, UL Certified for Canada	CSA	N
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0107 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	51.85 in
Frame Length	28.75 in	Shaft Diameter	3.375 in
Shaft Extension	8.81 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 2:1		
Connection Drawing	A-EE7300S	Outline Drawing	B-SS515578-2875





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.

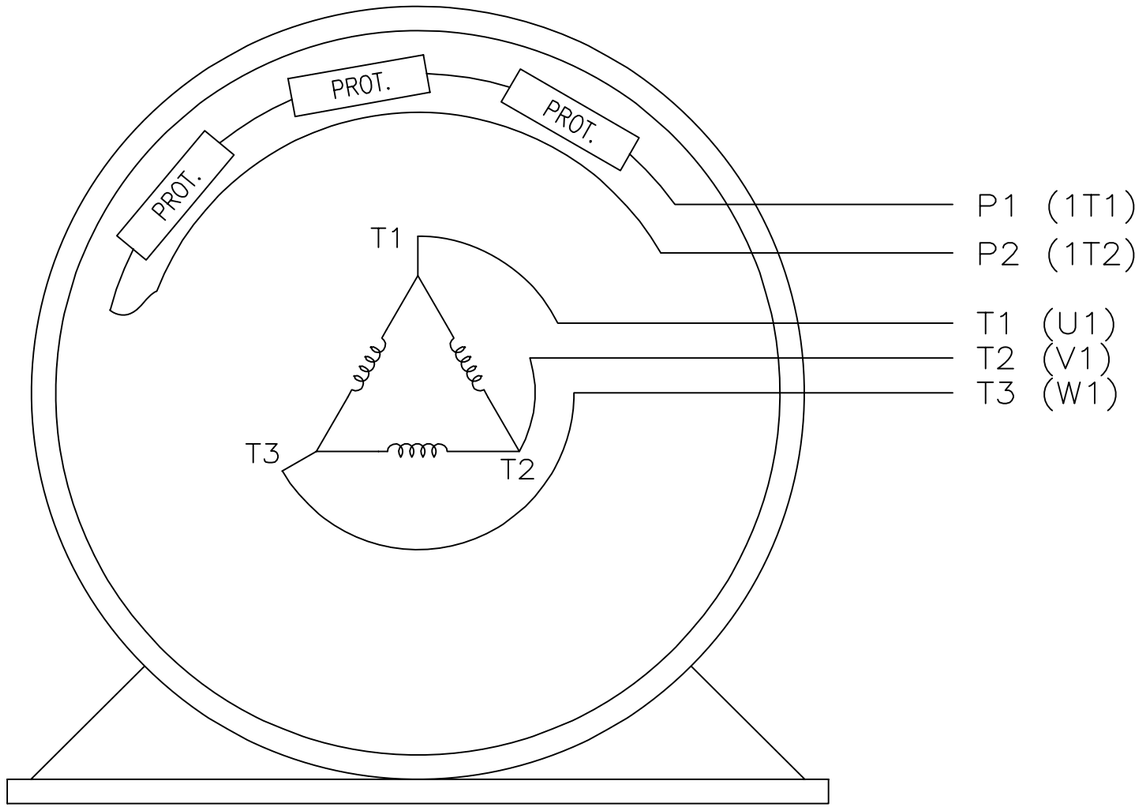
MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS515578	1 OF 1

EE7300S

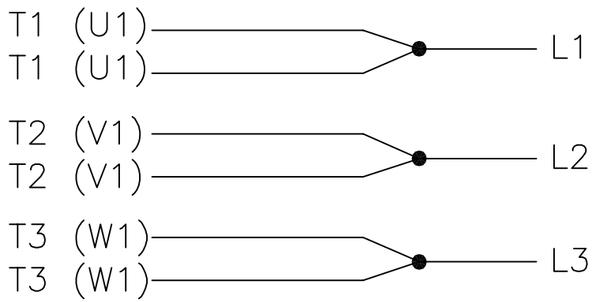
THREE PHASE – SINGLE VOLTAGE MOTOR

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

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



A–9806 DECAL

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

P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300S **CAT #:** 825339.00
OUTLINE: B-SS515578-2875
WINDING: T449446 NONE 5

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	1800	1785	447/449T	TEFC	TFN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	460#380	285&275	LINE OR INVERTER	CONT	B	1.15	40	3300

F.L. EFF	96.5	3/4 LD EFF	96.5	1/2 LD EFF	95.8	GTD EFF	ELECT. TYPE
F.L. PF	86.0	3/4 LD PF	83.5	1/2 LD PF	77.0	96.2	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
736 LB-FT	1,825	1,450 LB-FT 197%	1,825 LB-FT 248%	65

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
80 dBA	89 dBA	81.0 LB-FT²	2000 LB-FT²	25 SEC.	1	2700 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	DF CL I GR C&D CL II GF	NO	NONE	JE - LEESON (ENAM

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6319	BALL 6318	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.007	0.007	0.092	0.13	2.972	0.150	ODE

*
NOTES
*

INVERTER TORQUE: CONSTANT 2:1
INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: NONE

DATE: 1/29/2018

Data Sheet

Date: 1/29/2018

825339.00

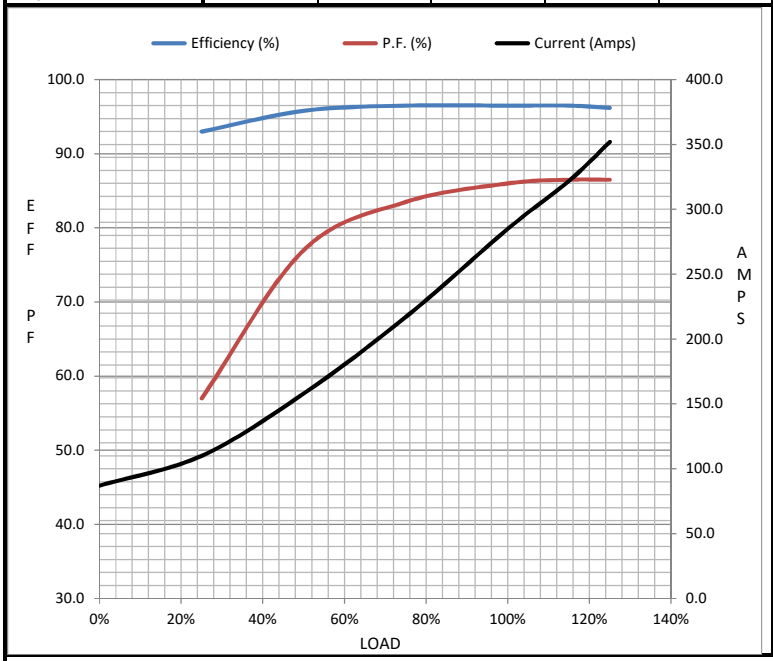
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	87.0	110	158	217	285	322	352	1,825	
Torque (ft-lb)	0.00	183	366	550	736	846	920	1,450	
RPM	1800	1796	1794	1790	1785	1,782	1780	0	
Efficiency (%)		93.0	95.8	96.5	96.5	96.5	96.2		
P.F. (%)	4.5	57.0	77.0	83.5	86.0	86.5	86.5	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,825	1,725	1,100	285	87.0
Torque (ft-lb)	1,450	1,250	1,825	736	0.00



Information Block

HP	250.0	
Sync. RPM	1800	
Frame	449	
Enclosure	TEFC	
Construction	TFN	
Voltage	460#380	V
Frequency	60	Hz
Design	A	
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	81.0	Lb-Ft²
Ref Wdg	T449446 NONE	
Sound Pressure @ 1M	80	dBA
VFD Rating	CONSTANT 2:1	
Outline Dwg	B-SS515578-2875	
Conn. Diag	A-EE7300S	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0070	0.0070	0.0920	0.1300	2.9720

Speed -Torque Curve