

PRODUCT INFORMATION PACKET

Model No: 182TTTTCD6578

Catalog No: E465A

Severe Duty Motors, TENV, 1.50 HP, 3 Ph, 60 Hz, 230/460 V, 1175 RPM, 182T Frame



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Nameplate Specifications

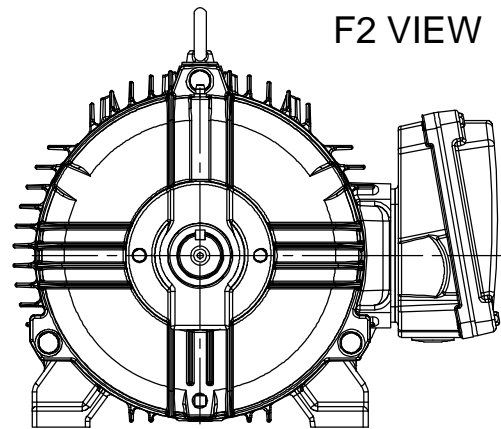
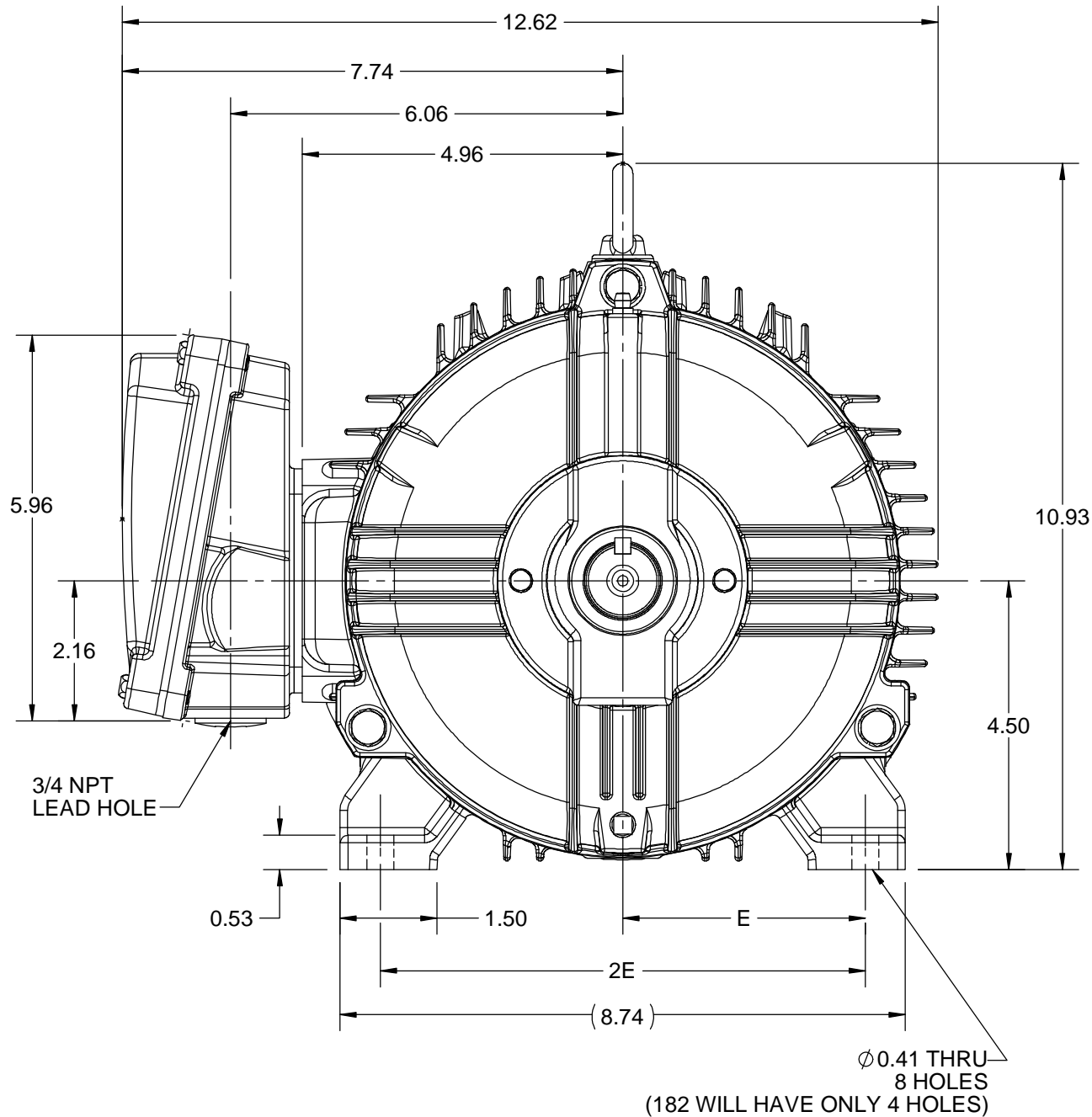
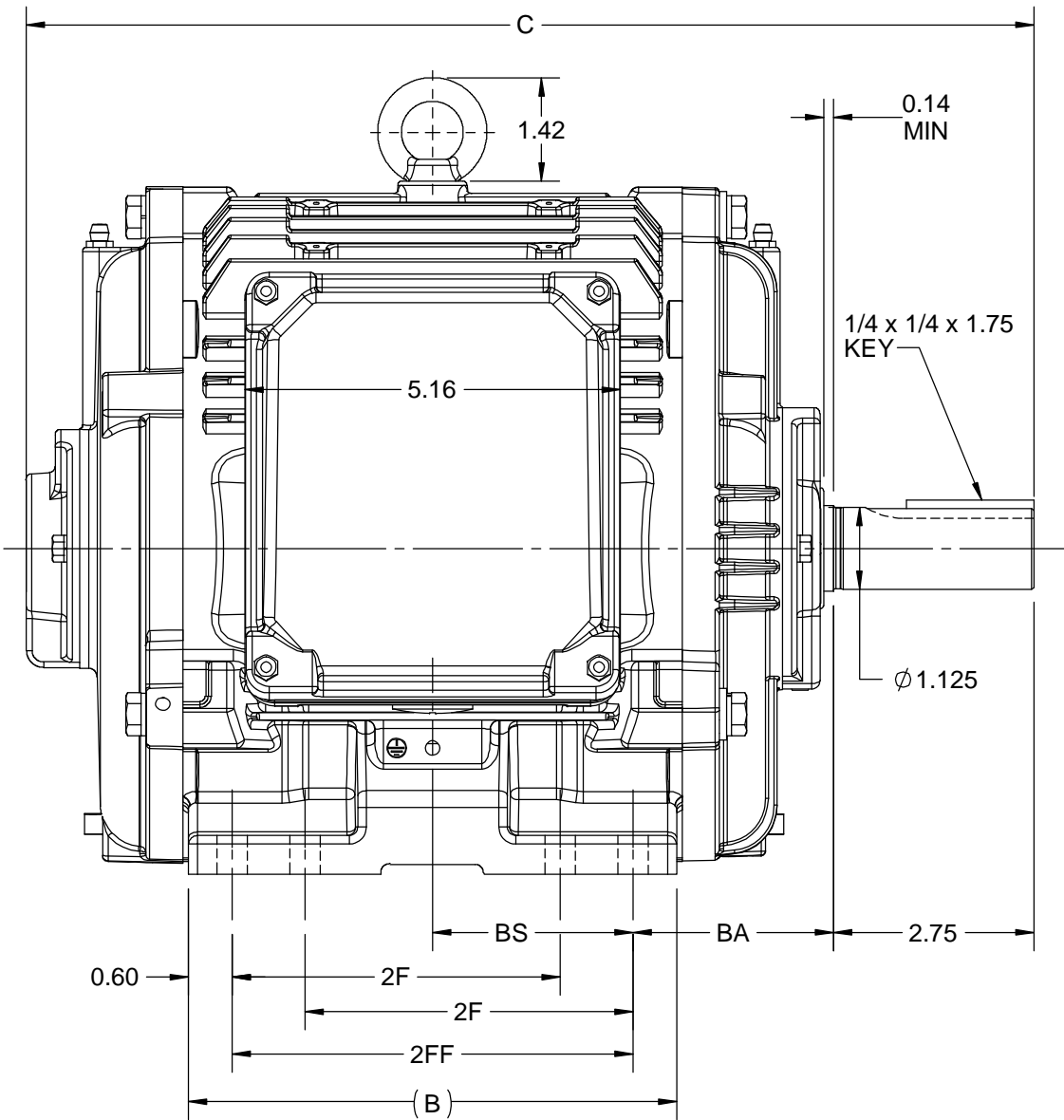
Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.6/2.3 A	Speed	1175 rpm
Service Factor	1.15	Phase	3
Efficiency	87.5 %	Power Factor	70
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	L
Frame	182T	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Listed	CSA	Y
CE	Y	IP Code	55
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	6.995 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.125 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1/VARIABLE 10:1
Connection Drawing	EE7308	Outline Drawing	SS600211-100


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4					3					
DASH NO.	B	C	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	5.67	12.82	3.75	7.50	-	4.50	2.75	2.35	F1 OR F2	182T
200	6.69	13.82			4.50	5.50		2.75	F1 OR F2	182/184T



DRAWING REVISION B	REVISION BY BISWA	REV DATE/© DATE 06/10/2020
ECO ECO-0194180	APPROVED BY GNK	DATE 06/10/2020
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DRAWN BY BISWA	 Regal Beloit America, Inc.		
DATE 06/10/2020			
APPROVED BY SBD	DESCRIPTION OUTLINE 182/184T FR-NEMA-TEAO/TENV		
DATE 06/10/2020			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER SS600211	SHEET 1 OF 1



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM	11/20/1990
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK ML	11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD SAS	04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR		REF
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005	MAT'L.		FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7"30"	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 ee7308		SIZE	DRAWING NO. PAGE OF REV.
			DIST WP				A	EE7308



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308
 OUTLINE: SS600211
 WINDING: HA31126008

REFERENCE MODEL #: 182TTTCD6578

CAT #: E465A

NONE 3

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	1200	1175	182T	TENV	TFC	L	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB(° C)	ELEV.(Ft)
3	60	230/460	4.6/2.3	LINE OR INVERTER	CONT	H	1.15	40	3300

F.L. EFF	87.5	3/4 LD EFF	86.0	1/2 LD EFF	84.0	GTD EFF	ELECT. TYPE
F.L. PF	70.0	3/4 LD PF	59.5	1/2 LD PF	48.0	86.5	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
6.7 LB-FT	18.5	16.2 LB-FT 242%	25.5 LB-FT 381%	25

SOUND PRESSURE	SOUND	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	STARTS/HOUR	APROX. MOTOR WGT
55 dBA	64 dBA	0.40 LB-FT ²	32 LB-FT ²	15 SEC.	2	106 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	PREMIUM SEVERE DUTY	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6206 6205						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)
3.969	2.835	10.962	12.852	171.045	0.080

* N O T E S *		<p>If Inverter equals NONE, contact factory for further information</p> <p>INVERTER TORQUE: CONSTANT 10:1/VARIABLE 10:1</p> <p>INV. HP SPEED RANGE: NONE</p>
	ENCODER: NONE	
	NONE	
	NONE	NONE PPR
	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:

PREPARED BY:	
DATE:	6/3/2020

** Subject to change without notice.
 FORM: 3531 REV_4 2/27/06

Data Sheet

Date: 6/3/2020
 Customer: _____
 Attention: _____
 Submitted by: _____

marathon®
 Motors

182TTTCD6578

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.50	1.60	1.80	2.10	2.30	2.50	2.80	18.5	
Torque (ft-lb)	0.00	1.70	3.4	5.0	6.7	7.7	8.4	16.2	
RPM	1200	1195	1188	1184	1175	1,170	1165	0	
Efficiency (%)		74.0	84.0	86.0	87.5	87.0	86.5		
P.F. (%)	7.0	42.5	48.0	59.5	70.0	71.0	73.0	47.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle						
Speed (RPM)	0	300	985	1175	1200						
Current (Amps)	18.5	17.0	12.0	2.30	1.50						
Torque (ft-lb)	16.2	12.0	25.5	6.7	0.00						
<div><div><div>— Efficiency (%)</div><div>— P.F. (%)</div><div>— Current (Amps)</div></div><div>EFFICIENCY (%)</div><div>P.F. (%)</div><div>CURRENT (AMPS)</div><div>LOAD</div></div>						Information Block					
						HP		1.5			
						Sync. RPM		1200			
						Frame		160L			
						Enclosure		TENV			
						Construction		TFC			
						Voltage		230/460		V	
						Frequency		60		Hz	
						Design		N			
						LR Code letter		L			
						Service Factor		1.15			
						Temp Rise @ FL		25		° C	
						Duty		CONT			
						Ambient		40		° C	
						Elevation		3,300		feet	
						Rotor/Shaft wk²		0.40		Lb-Ft²	
						Ref Wdg		HA31126008 NONE			
						Sound Pressure @ 1M		55		dBA	
						VFD Rating		CONSTANT 10:1/VARIABLE 10:1			
						Outline Dwg		037898-912			
						Conn. Diag		EE7308			
						Additional Specifications:					
						0					
0											
EQUIV CKT (OHMS / PHASE)											
R1		R2		X1		X2		Xm			
3.9690		2.8350		10.9620		12.8520		171.0450			

Speed - Torque Curve

