

PRODUCT INFORMATION PACKET



Model No: SRF2B1TC61
Catalog No: LM34169
1,3600,TEFC,56C,3/60/230/460
Totally Enclosed Fan Cooled (TEFC)



Regal and Leeson are trademarks of Regal Beloit Corporation or one of its affiliated companies.
©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E





Nameplate Specifications

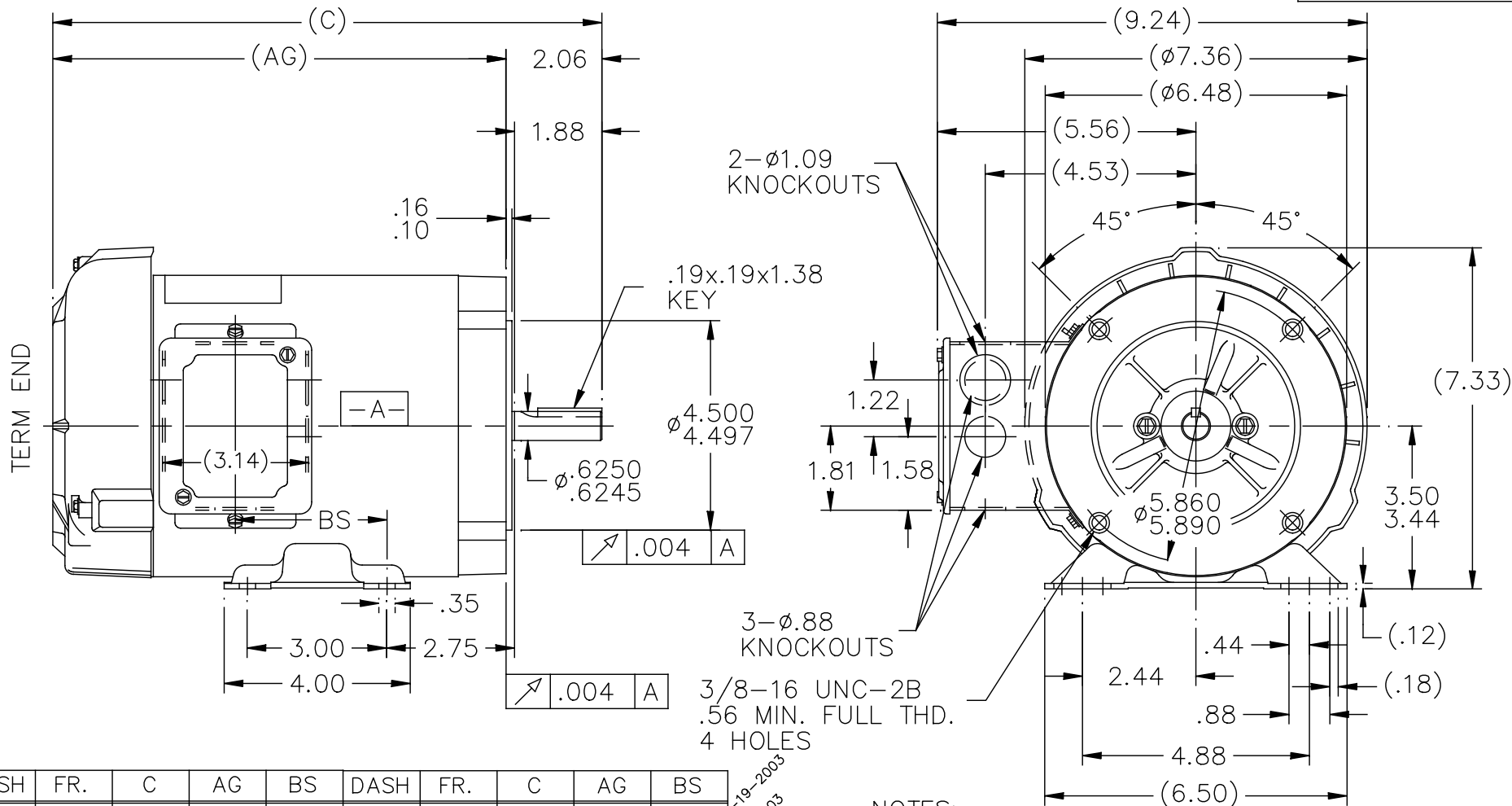
Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/460 V
Current	3.0/1.5 A	Speed	3450 rpm
Service Factor	1.15	Phase	3
Efficiency	78.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	J	Frame	56C
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	NEMA 56
Overall Length	11.81 in	Frame Length	6.56 in
Shaft Diameter	0.625 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	A-100110-656	Connection Diagram	A-EE7308

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 10/15/2018


100110



NOTES:
 1. CONDUIT BOX CAN BE ROTATED 180°
 2. NAMEPLATE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FR.	C	AG	BS	DASH	FR.	C	AG	BS
606	56-60	11.31	9.25	2.75	756	56-75	12.81	10.75	4.25
656	56-65	11.81	9.75	3.25	806	56-80	13.31	11.25	4.75
706	56-70	12.31	10.25	3.75	856	56-85	13.81	11.75	5.25

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED	
					DEC.	INCHES
5	CHANGED LOGO TO REGAL	SL 04/20/2016	SM	.XX	±.03	
4	AD'D NAMEPLATE LOC. CN 27400-296	BLR 08/05/1999	ML	.XXX	±.005	
3	REDRAWN ON CADD - NO CHANGE 4128208	KL 04/01/1998	ML	.XXXX	±.0005	
					±7'30"	

 Regal Beloit America, Inc.		DRAWN KL 02/28/1994 CHK ML 02/28/1994 APPD ET 03/02/1994
TITLE OUTLINE 56 FR. - TEFC - 3 ϕ - C'FACE		SCALE 5=16
MAT'L.		REF
FINISH		FMF MU48878
RFP		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				CAD FILE 100110	SIZE A	DRAWING NO. 100110	PAGE OF	REV. 5
--	--	--	--	-----------------	--------	--------------------	---------	--------



NO.		REVISION		BY & DATE		TOLERANCES UNLESS SPECIFIED		Regal Beloit America, Inc.	DRAWN RM 11/20/1990	
						DEC.	INCHES		CHK	ML
5	CHG TO REGAL LOGO	SL	09/10/2015	AB		DEC.	INCHES	TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR MAT'L. FINISH	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		REF	
1	REDRAWN	RM	11/20/1990		.XXXX		±.0005		FMP	
						CHK	ANG	±7'30"	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	5



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EET7308
OUTLINE: A-100110-656
WINDING: Z12107

CAT #: LM34169

R4 3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
1	0.75	3600	3485	56C	TEFC	TFR	J	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	3/1.5	ACROSS THE LINE	CONT	F	1.15	40	3300
F.L. EFF	78.5	3/4 LD EFF	79.4	1/2 LD EFF	73.9	GTD EFF		ELECT. TYPE	
F.L. PF	79.1	3/4 LD PF	75.8	1/2 LD PF	64.0	72.0		SO CAGE IND RUN	
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)					
1.50 LB-FT	10.0	3.2 LB-FT	213%	4.8 LB-FT	320%	45			
PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT			
68 DBA	77 DBA	0.02 LB-FT²	2 LB-FT²	10 SEC.	2	22 LB.			

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	GRAY (POWDER)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL		
DE ODE	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL		
BALL BALL								
6203	6203							
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)	FLOAT ODE		
12.07	6.362	17.324	11.246	349.32	0.150			

* N O T E S *		INVERTER TORQUE: NONE	
		INV. HP SPEED RANGE: NONE	
		ENCODER: NONE	
		BRAKE: NONE	
		FT-LB: NA	
		VOLTAGE: NONE	
		UL: VINS, CONST UL REC	

DATE:	1/29/2018	HZ:	
-------	-----------	-----	--



Motor Load Data						
Load	0%	25%	50%	75%	100%	LR
Current (Amps)	0.75	0.80	1.00	1.20	1.50	10.0
Torque (ft-lb)	0.00	0.37	0.75	1.15	1.50	3.2
RPM	3600	3569	3540	3525	3485	0
Efficiency (%)		62.5	73.9	79.4	78.5	
P.F. (%)	20.1	47.1	64.0	75.8	79.1	64.0

Motor Speed Data					
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1500	2750	3485	3600
Current (Amps)	10.0	9.5	5.9	1.50	0.75
Torque (ft-lb)	3.2	2.80	4.8	1.50	0.00

Information Block				
HP	1.0			
Sync. RPM	3600			
Frame	56			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.02 LB-Ft ²			
Ref Wdg	Z12107 R4			
Sound Pressure @ 1M	68 dBA			
VFD Rating	NONE			
Outline Dwg	A-100110-656			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
12.0/700	6.3620	17.3240	11.2460	349.3200

