

# PRODUCT INFORMATION PACKET



Model No: LM13960  
Catalog No: LM13960  
General Purpose Motor, 25 & 25 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,  
284TS Frame, TEFC



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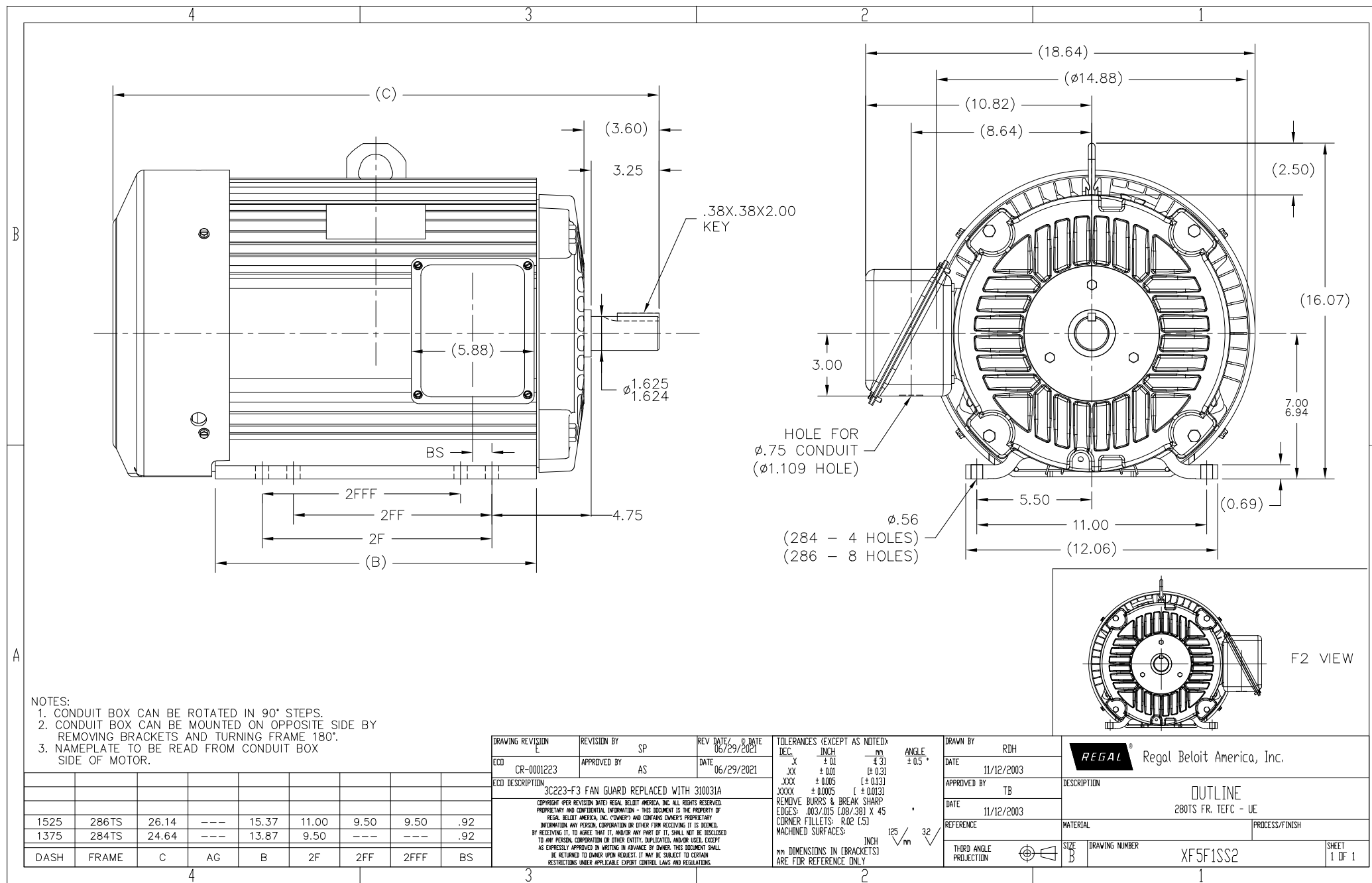


## Nameplate Specifications

Phase	3	Output HP	25 & 25 Hp
Output KW	18.7 & 18.7 kW	Voltage	230/460 & 190/380 V
Speed	3535 & 2935 rpm	Service Factor	1.25 & 1.15
Frame	284TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.4 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	56/28 & 54/27 A	Power Factor	90.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6209
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

## Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	TS	Overall Length	25.25 in
Frame Length	13.75 in	Shaft Diameter	1.625 in
Shaft Extension	3.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	XF5F1SS2-1375	Connection Drawing	A-EE7358-LN



- 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. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1525	286TS	26.14	---	15.37	11.00	9.50	9.50	.92
1375	284TS	24.64	---	13.87	9.50	---	---	.92
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS

DRAWING REVISION E	REVISION BY SP	REV DATE / © DATE 06/29/2021	TOLERANCES (EXCEPT AS NOTED): DEC. INCH MM .XX ± 0.01 (± 0.3) .XXX ± 0.005 (± 0.13) .XXXX ± 0.0005 (± 0.013) REMOVE BURRS & BREAK SHARP EDGES: .003/.015 (.08/.38) X 45 CORNER FILLETS: R.02 (.5) MACHINED SURFACES: INCH 125 √ mm 32	DRAWN BY RDH	
ECD CR-0001223	APPROVED BY AS	DATE 06/29/2021	DATE 11/12/2003	DATE 11/12/2003	
ECC DESCRIPTION 3C223-F3 FAN GUARD REPLACED WITH 310031A COPYRIGHT (PER REVISION DATED) REGAL BELLOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELLOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FOR RECEIVING IT IS HEREBY, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.			APPROVED BY TB	DATE 11/12/2003	
			REFERENCE	PROCESS/FINISH	

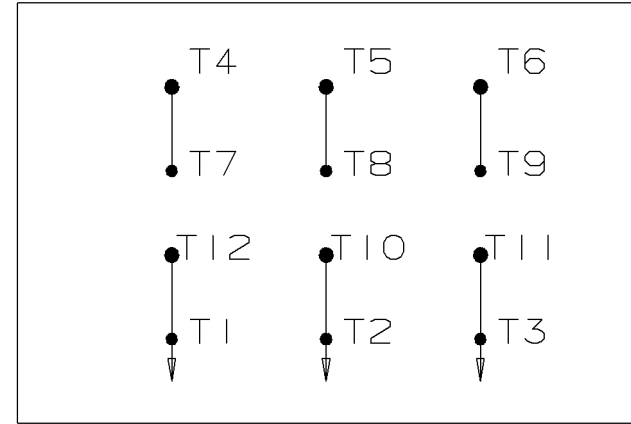
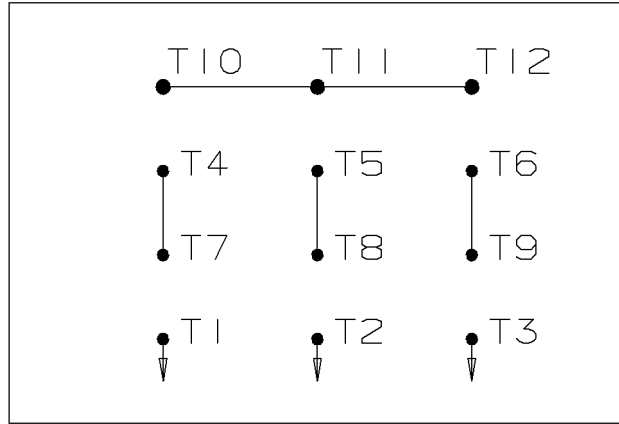
DESCRIPTION OUTLINE 280TS FR. TEFC - UE	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER XF5F1SS2
THIRD ANGLE PROJECTION	SHEET 1 OF 1

REGAL® Regal Beloit America, Inc.

# WYE START

# HIGH VOLTAGE

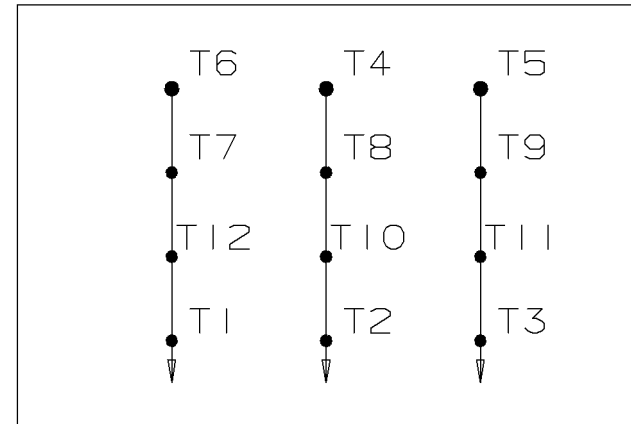
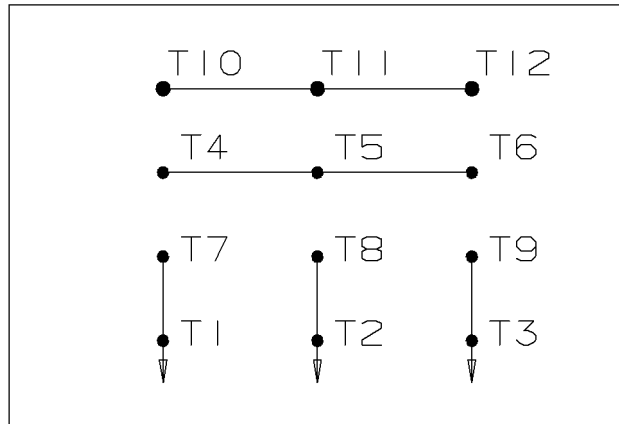
# DELTA RUN



# WYE START

# LOW VOLTAGE

# DELTA RUN



4/2 CKTY Δ

						✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX± .02    XXX± .005    XXXX± .0005    ANGLES± 7°30"					
						MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED			DRAWN BY DRS 12-07-1999		
						FINISH			CHKD BY ML 12-07-1999		
						MATERIAL			APPD BY TB 12-07-1999		
PART NAME CONNECTION DIAGRAM			DRWG NO A- EE7358-LN								
PURCHASED			CADD FILE NO.			EE7358-LN					

REV	DATE	CHANGE	NAME
1	12-07-1999	NEW DRAWING	DRS



# CERTIFICATION DATA SHEET

2100 WASHINGTON ST.  
GRAFTON, WI  
PH. 262-277-8810

CONN. DIAGRAM: A-EE7358-LN

CATALOG #: LM13960

OUTLINE: XF5F1SS2-1375

WINDING #: L2842009 1

MOUNTING: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
25&25	18.7&18.7	3600	3535&2935	284TS	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	56/28&54/27	WYE START DELTA RUN	CONTINUOUS	F3	1.25/1.15	40

FULL LOAD EFF:	92.4&92.4	3/4 LOAD EFF:	93	1/2 LOAD EFF:	92.3	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	90.5&90	3/4 LOAD PF:	89.7	1/2 LOAD PF:	84.2	90.9	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
37.2 OZ-FT	364 / 182	82 OZ-FT 220 %	115 OZ-FT 309 %	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0 LB-FT^2	- LB-FT^2	- SEC.	-	0 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	GRAY (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ALUMINUM
6312	6209						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
FT-LB V NONE Hz

## Data Sheet

Date: 1/24/2018

LM13960



Data @ 460 V

## Motor Load Data

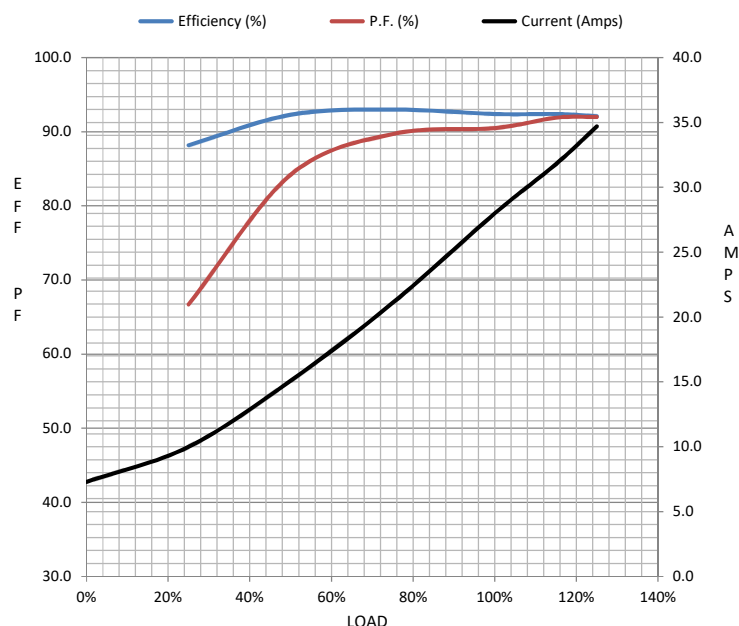
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.3	10.0	15.1	21.1	28.0	31.8	34.7	182	
Torque (ft-lb)	0.00	9.2	18.4	27.7	37.2	42.9	46.7	82.0	
RPM	3600	3585	3567	3552	3535	3,523	3516	0	
Efficiency (%)		88.2	92.3	93.0	92.4	92.4	92.1		
P.F. (%)	11.5	66.7	84.2	89.7	90.5	91.9	92.0	40.0	

## Motor Speed Data

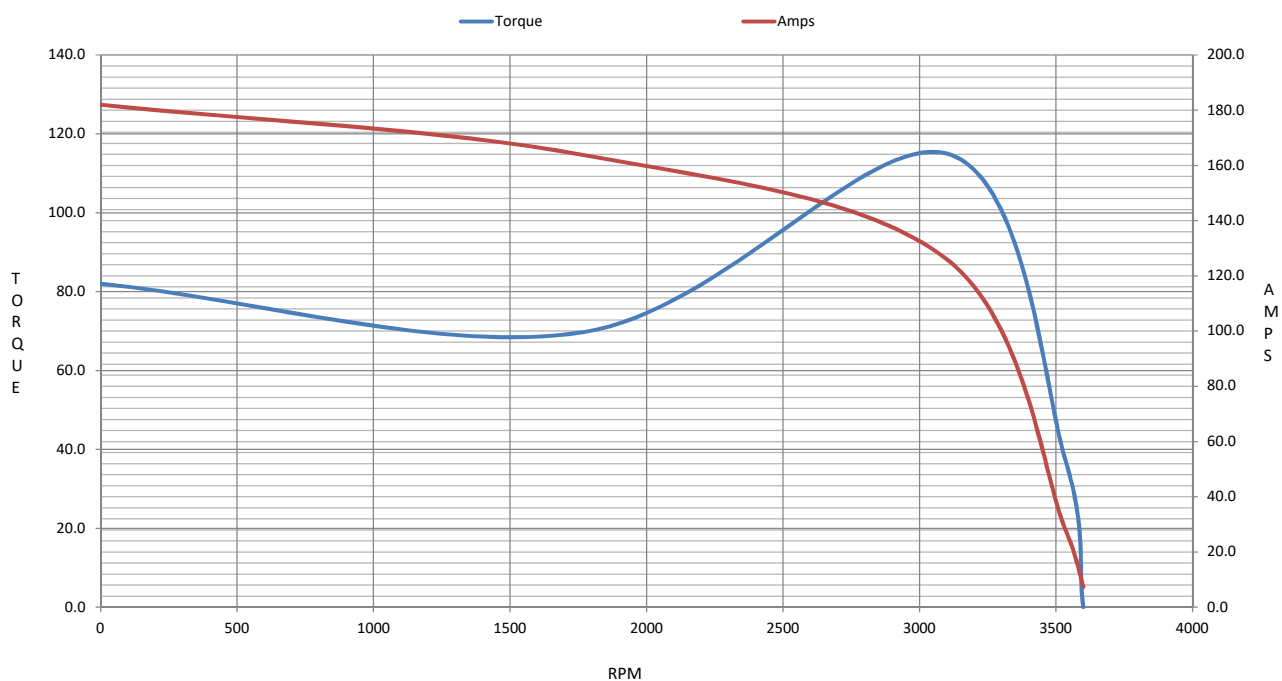
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1768	3100	3535	3600
Current (Amps)	182	164	126	28.0	7.3
Torque (ft-lb)	82.0	69.7	115	37.2	0.00

## Information Block

HP	25.0			
Sync. RPM	3600			
Frame	284			
Enclosure	TEFC			
Construction	TFL			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.00	Lb-Ft²		
Ref Wdg	L2842009	NONE		
Sound Pressure @ 1M	999	dBa		
VFD Rating	NONE			
Outline Dwg	XF5F1SS2-1375			
Conn. Diag	A-EE7358-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



## Speed - Torque Curve



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : LM13960

(Model No. may contain prefix and/or suffix characters)

Catalog No : LM13960

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**