

PRODUCT INFORMATION PACKET

Model No: 254TTFCD6028

Catalog No: GT1222A

15 HP General Purpose Motor, 3 phase, 1800 RPM, 230/460 V, 254TC Frame, TEFC
Three Phase TEFC Motors



Nameplate Specifications

Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	37.5/18.8 A	Speed	1772 rpm
Service Factor	1.15	Phase	3
Efficiency	92.4 %	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	254TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	Listed	CSA	Y
CE	Y	IP Code	55
Hazardous Location	DIVISION 2 T2B		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Selective Clockwise
Resistance Main	.6738 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	24.65 in
Frame Length	10.00 in	Shaft Diameter	1.626 in
Shaft Extension	4 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	SS620700-100	Connection Drawing	EE7308K

4

3

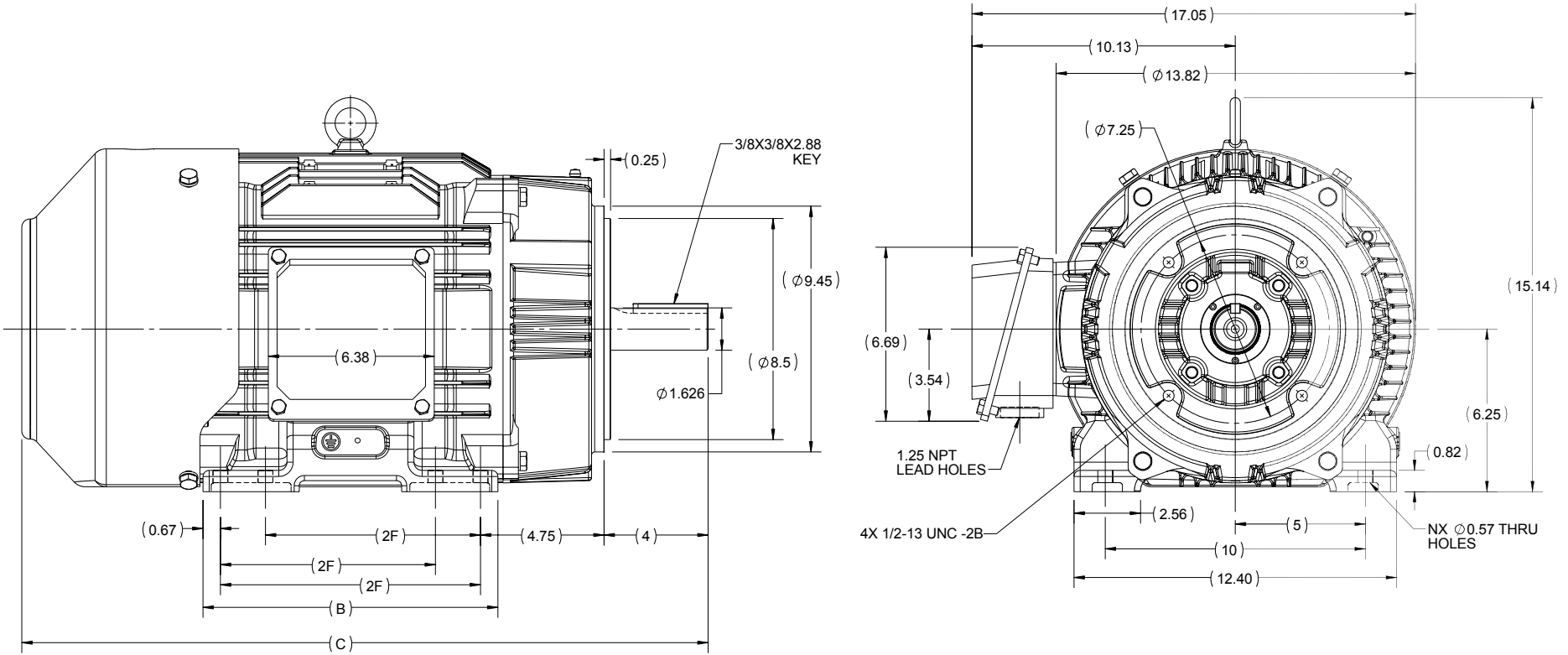
2

1

OUTLINE

B

B



A

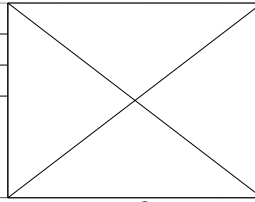
A

256TC	11.34	26.39	10	8
254TC	9.60	24.65	8.25	4
FRAME	B	C	2F	N

4

DRAWING REVISION A	REVISION BY UDAY	DATE 08/09/2015
ECO ECO-0084584	APPROVED BY SBD	DATE 08/09/2015
ECO DESCRIPTION NEW DRAWING RELEASE		
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, 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.</small>		

3



2

DRAWN BY SMAR
DATE 06/07/2015
APPROVED BY SBD
DATE 06/07/2015
REFERENCE
THIRD ANGLE PROJECTION

REGAL-BELOIT CORPORATION	
DESCRIPTION OUTLINE	
254/256TC FR-TEFC-CAST IRON	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620700
	SHEET 1 OF 1

1


LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997			
NO.	REVISION	BY & DATE	CHK	ANG	±		UNIT	CHK	ML 06-05-1997	
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.		INCHES				
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	±.1			APPD GK 06-15-1997		
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	±.02		TITLE	SCALE		
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	±.005		CONNECTION DIAGRAM	REF		
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	±.0005		DELTA CON. - 3Ø - 9 LEADS	FMF		
					±7'30"		MAT'L.	PREV		
			RFP				FINISH			
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 EE7308K	SIZE	DRAWING NO. PAGE OF	REV.
							A	EE7308K	E	



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER P.O. #:
 ORDER #: A-EE7308K REFERENCE MODEL #: 254TTCOD8028
 CONN. DIAGRAM: B-SS620700 CAT #: GT1222A
 OUTLINE: HE31604011 NONE 2 CUSTOMER PART #:
 WINDING: HE31604011 NONE 2 MOUNTING: F1/F2 CAPABLE
 SPEED:
 TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
15	11.2	1800	1772	254TC	TEFC	TFC	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	37.5/18.3831.5/15.7	LINE OR INVERTER	CONT	F	1.15	40	3300
	F.L. EFF	92.4	3/4 LD EFF	92.4	1/2 LD EFF	91.7	GTD EFF	ELECT. TYPE	
	F.L. PF	82.0	3/4 LD PF	76.5	1/2 LD PF	65.5	91.7	SO CAGE INV BATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)		
44.5 LB-FT	113	91.0 LB-FT	118 LB-FT	265%		
@ 3 FT.	POWER	ROTOR WK ²	MAX. LOAD WK ²	SAFE STALL TIME	START/SHOUR	MOTOR WGT
65 DBA	74 DBA	2.40 LB-FT ²	110 LB-FT ²	20 SEC.	2	400 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	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE BALL 6309	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)		CAST IRON

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
0.44	0.244	1.304	1.467	31.563	0.150	ODE

* N		INVERTER TORQUE: CONSTANT 10:1	
O	INV. HP SPEED RANGE: NONE		
T	ENCODER: NONE		
E	BRAKE: NONE		
S	FT-LB: NA NONE		
.	VOLTAGE: NONE		
	UL: V/INS, CONST UL REC		

PREPARED BY: FAREEDA DUDEKULA
 DATE: 5/3/2018
 FORM: 3531 REV 4 2/27/06

Data Sheet

2541TFC06028



Submital Data @ 460 V

Date: 5/3/2018
 Customer:
 Attention:
 Submitted by: FAREEDA DUDEKULA

Motor Load Data

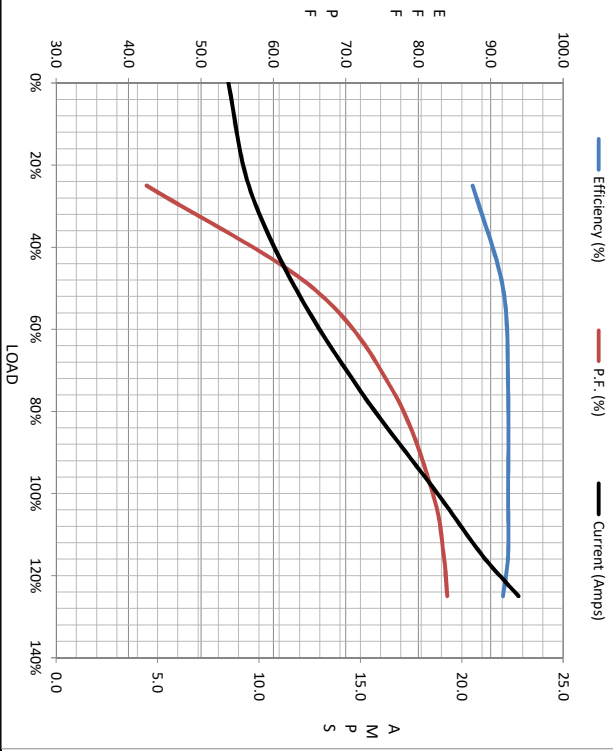
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	8.5	9.5	11.8	15.0	18.8	21.0	22.8	113
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.5	51.5	56.0	91.0
RPM	1800	1792	1785	1780	1772	1,768	1762	0
Efficiency (%)		87.5	91.7	92.4	92.4	92.4	91.7	
P.F. (%)	5.0	42.5	65.5	76.5	82.0	83.5	84.0	41.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1622	1772	1800
Current (Amps)	113	100	66.0	18.8	8.5
Torque (ft-lb)	91.0	76.5	118	44.5	0.00

Information Block

HP	15.0				
Sync. RPM	1800				
Frame	2541B2TFC080				
Enclosure	TEFC				
Construction	TFC				
Voltage	230/460#190/380 V				
Frequency	60 Hz				
Design	B				
LR Code letter	G				
Service Factor	1.15				
Temp Rise @ FL	50 °C				
Duty	CONT				
Ambient	40 °C				
Elevation	1,000 feet				
Motor/Shaft Wk ^e	2.40 Lb-Ft ^e				
Ret Wdg	HE31604011 NONE				
Sound Pressure @ 1M	65 dBA				
VFD Rating	CONSTANT 10:1				
Outline Dwg	B-SS620700				
Conn. Diag	A-EE7308K				
Additional Specifications:					
0					
0					
	EQUIV CKT (OHMS / PHASE)				
	R1	R2	X1	X2	Xm
	0.4400	0.2440	1.3040	1.4670	31.5630



Speed - Torque Curve

