

PRODUCT INFORMATION PACKET

Model No: 256TTFNA16070

Catalog No: E206-P

20, 1800, TEFC, 256T, 3/60/230/460

Totally Enclosed Fan Cooled (TEFC)



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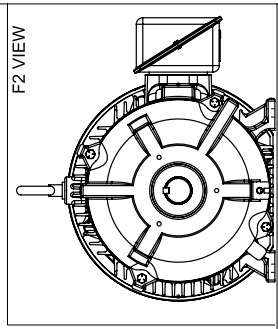
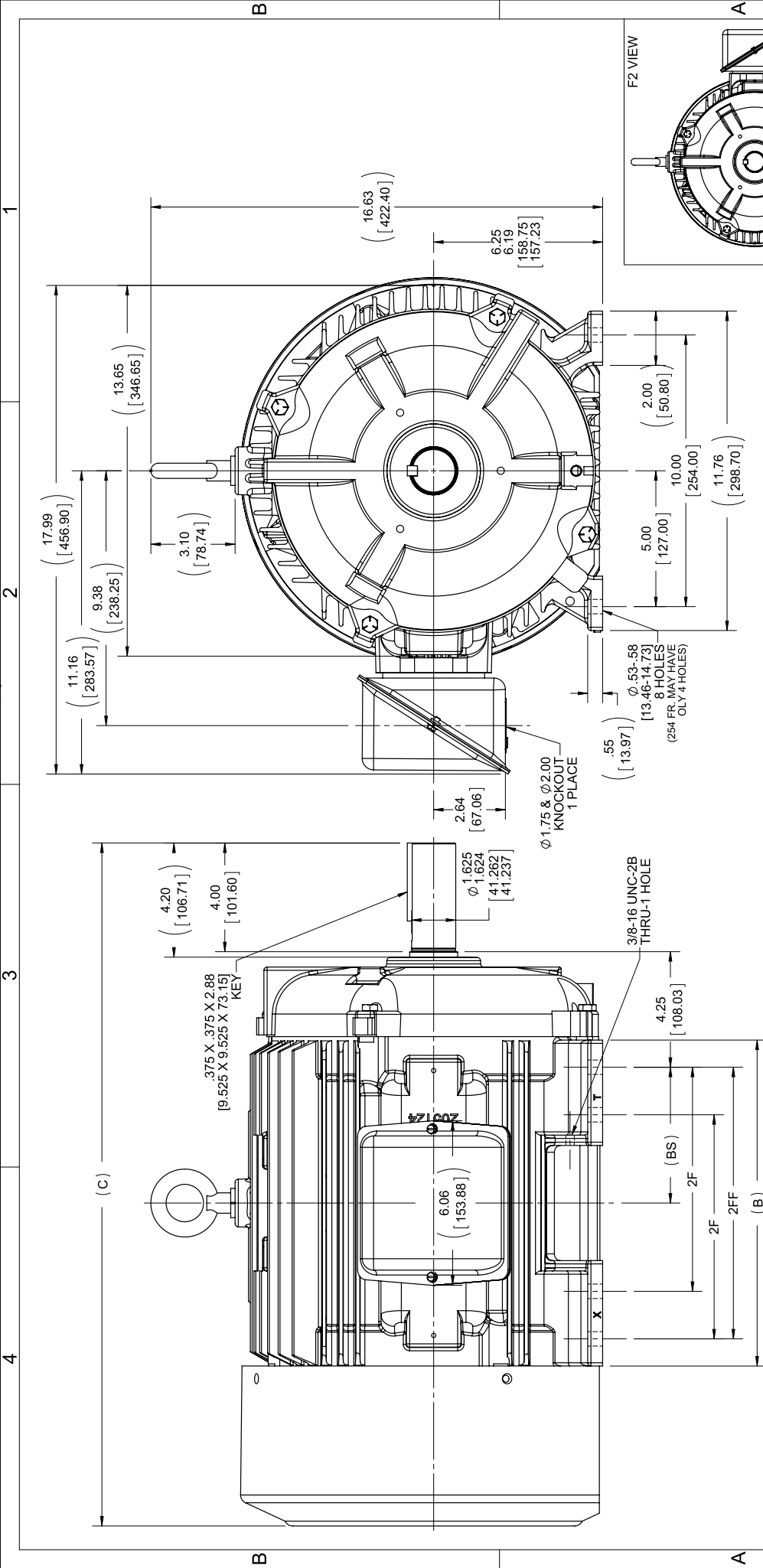


Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460 V
Current	48.0/24.1 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	256T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6210	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	25.27 in	Frame Length	12.25 in
Shaft Diameter	1.625 in	Shaft Extension	4.2 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	B-SS203015-1225	Connection Diagram	A-EE7308



NOTES:
 1. BOX CAN BE ROTATED ON ITS AXIS.
 2. 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

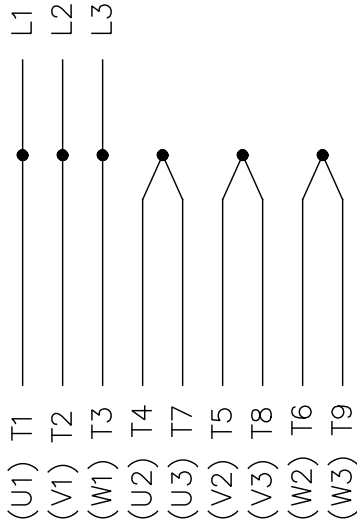
DASH	FRAME	B	C	2F	2FF	BS
1050	254T	10.25 [260.35]	23.52 [597.41]	-	8.25 [209.55]	4.12 [104.65]
1225	256T	12.00 [304.80]	25.27 [641.86]	8.25 [209.55]	10.00 [254.00]	5.00 [127.00]

DRAWING REVISION		REVISION BY	DF	DATE	7-7-14
ECO	F	ECO-0054340	APPROVED BY	DATE	7-2-14
ECO DESCRIPTION		NMR-0060600, MU117685			
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		DEC.	INCH	mm	ANGLE
X	+0.1	-0.1	[+2.5]	±0.76	±7.30°
XX	+0.03	-0.03	[+0.76]	±0.127	
XXX	+0.005	-0.005	[+0.127]		
XXXX	+0.0005	-0.0005	[+0.0127]		
REMOVE BURRS & BREAK SHARP CORNER FILLETS: .02 [51]					
MACHINED SURFACES: 200/5√					
mm SHOWN IN [BRACKETS]					
DRAWN BY		D.FROEHLICH		DATE	7-2-14
APPROVED BY		TB		DATE	7-7-14
REFERENCE		7-7-14			
THIRD ANGLE PROJECTION		B			
SIZE		SS203015			
DRAWING NUMBER		B			
SHEET		1 OF 1			

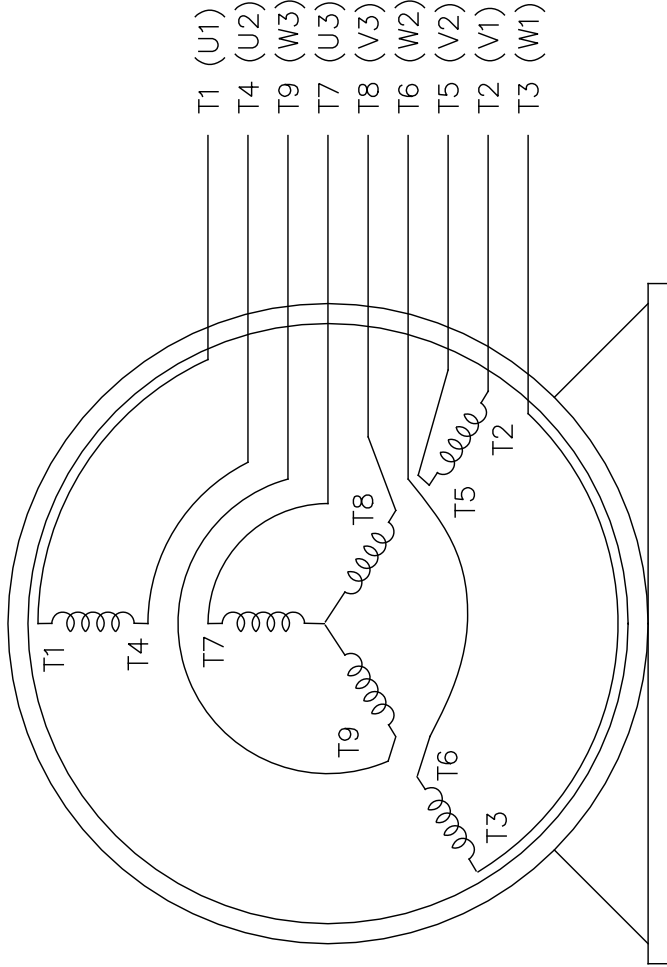
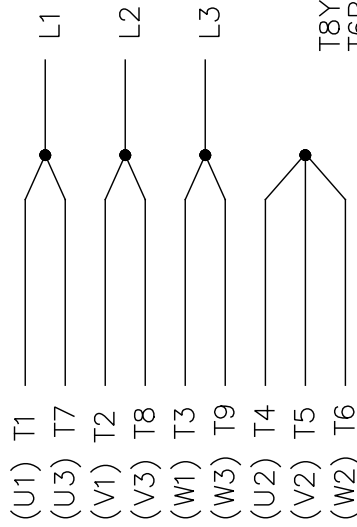
THREE PHASE
DUAL VOLTAGE MOTOR

EE7308

HIGH VOLTAGE



LOW VOLTAGE



VIEW OF TERMINAL END

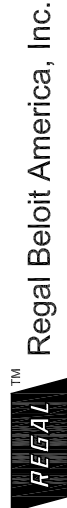
OPTIONAL CORD
CONNECTION

- L1 — WHITE
- L2 — RED
- L3 — BLACK

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

5		CHG TO REGAL LOGO	SL	09/10/2015	AB	TOLERANCES UNLESS SPECIFIED		DRAWN RM 11/20/1990	
4		REVISED IEC NOTATIONS	MSG	11/15/2011	CMN.X	INCHES		CHK	ML 11/21/1990
3		ADDED IEC NOTATIONS... (U1), (V1) ETC.	MSG	5/10/2010	MJS.XX	±.1		APPD	SAS 04/24/2003
2		ADDED THE OPTIONAL CORD CONNECTION	RDH	04/24/2003	DRS.XXX	±.02		SCALE	1=1
1		REDRAWN	RM	11/20/1990	.XXXX	±.0005		REF	
NO.		REVISION	BY & DATE		CHK	ANG		FMF	
		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	DIST		WP	PREV	
				CAD FILE		ee7308		SIZE	DRAWING NO. PAGE OF
				A		EE7308		REV.	5



Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3φ - DUAL VOLTAGE MOTOR

CERTIFICATION DATA SHEET

Model#: K2564164 NONE 6
CONN. DIAGRAM: A-EE7308
OUTLINE: B-SS203015-1225
WINDING#: K2564164 NONE 6
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	1800	1775&1475	256T	TEFC	G	B

PH	HZ	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460/190/380	48/24.1&44/22	LINE OR INVERTER	CONTINUOUS	F3	1.15/1.15	40	3300

FULL LOAD EFF:	3/4 LOAD EFF:	1/2 LOAD EFF:	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
93&92.5	93.6	93.6	93	92.4	17 / 8.5
FULL LOAD PF:	3/4 LOAD PF:	1/2 LOAD PF:		SQ CAGE INV/RATED	
84&83.5	81	72			

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
59.2 LB-FT	276 / 138	105 LB-FT 177	146 LB-FT 247	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK*2	MAX. WK*2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	3.2 LB-FT*2	125 LB-FT*2	25 SEC.	2	400 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	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
OPE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
BALL						
6309	6210					

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

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE:	CONSTANT 10:1
INV. HP SPEED RANGE:	NONE
ENCODER:	NONE
NONE:	NONE
NONE:	NONE PPR
BRAKE:	NONE NONE
NONE:	PIN NONE
NONE:	NONE
- FT-LB:	NONE V NONE Hz

* N O T E S *

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



256TTFNA16070

Submittal

Data @ 460 V

Motor Load Data

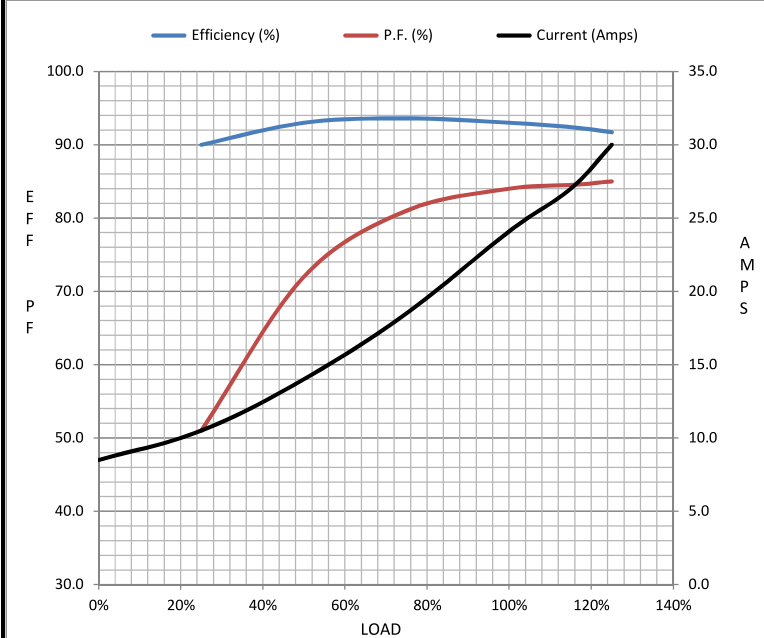
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	8.5	10.5	14.0	18.5	24.1	27.0	30.0	138
Torque (ft-lb)	0.00	14.5	29.5	44.5	59.2	68.0	74.5	105
RPM	1800	1795	1785	1780	1775	1,770	1760	0
Efficiency (%)		90.0	93.0	93.6	93.0	92.4	91.7	
P.F. (%)	8.5	51.0	72.0	81.0	84.0	84.5	85.0	40.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1625	1775	1800
Current (Amps)	138	115	86.0	24.1	8.5
Torque (ft-lb)	105	100	146	59.2	0.00

Information Block

HP	20.0			
Sync. RPM	1800			
Frame	256			
Enclosure	TEFC			
Construction	TFN			
Voltage	30/460#190/381 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	3.2 Lb-Ft ²			
Ref Wdg	K2564164 NONE			
Sound Pressure @ 1M	65 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS203015-1225			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.2670	0.2070	0.9900	1.4910	28.4000



Speed -Torque Curve

