

# PRODUCT INFORMATION PACKET

Model No: 145TTFR16106  
Catalog No: U363A  
3,3600,TEFC,145JM,3/60/230/460  
JM



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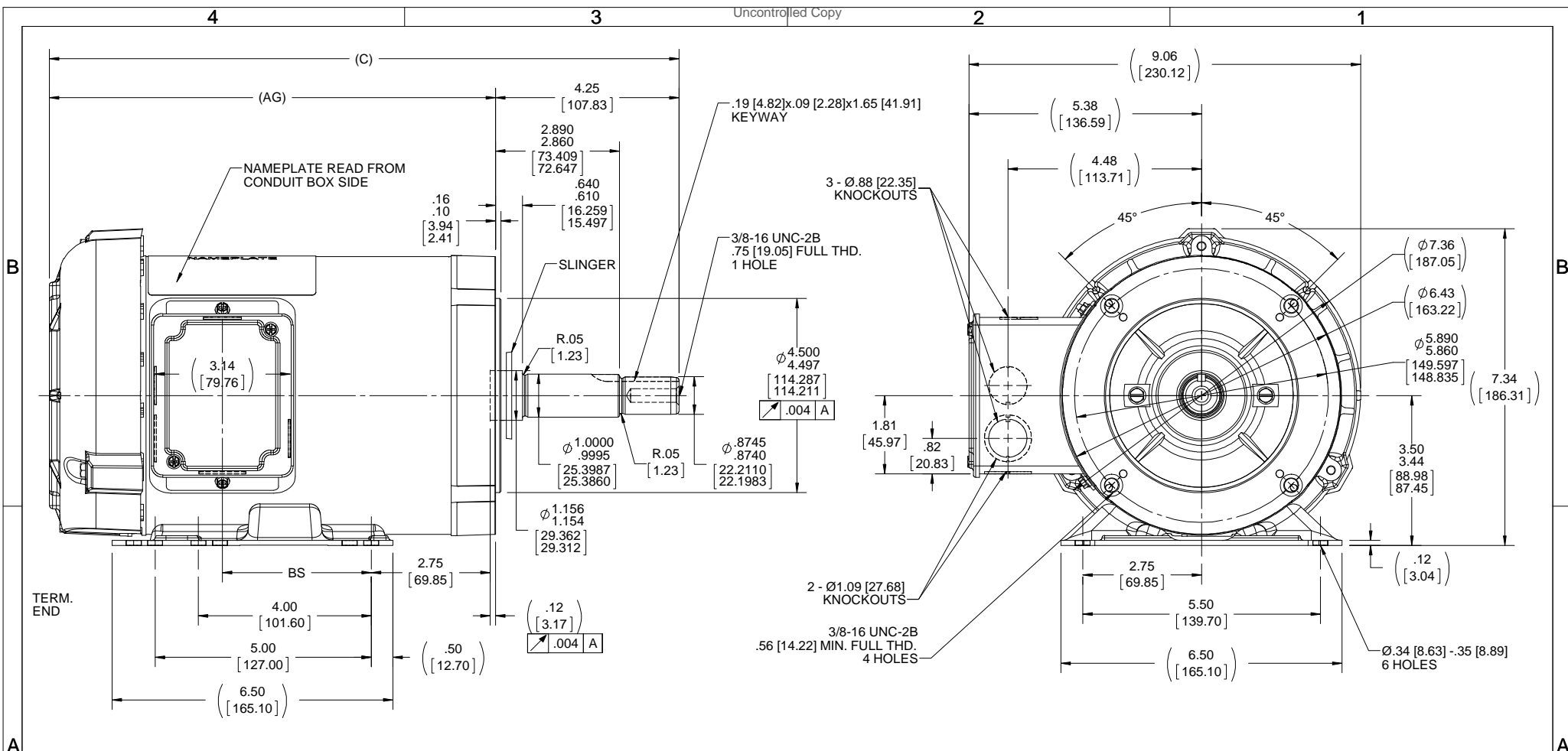
### Nameplate Specifications

Output HP	<b>3 Hp</b>	Output KW	<b>2.2 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>7.6/3.8 A</b>	Speed	<b>3505 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>87.5 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>B</b>
KVA Code	<b>M</b>	Frame	<b>145JM</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6206</b>
Opp Drive End Bearing Size	<b>6203</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>43</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>Ball</b>	Opp Drive End Bearing	<b>Ball</b>
Frame Material	<b>Rolled Steel</b>	Shaft Type	<b>JM</b>
Overall Length	<b>16.5 in</b>	Frame Length	<b>9.06 in</b>
Shaft Diameter	<b>0.875 in</b>	Shaft Extension	<b>4.25 in</b>
Assembly/Box Mounting	<b>F1 Only</b>		
Outline Drawing	<b>A-100133-906</b>	Connection Diagram	<b>EE7308</b>

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NOTE:  
1.CONDUIT BOX CAN BE ROTATED IN 180° STEPS.

DASH	C	AG	BS
706	14.57 [370.07]	10.33 [262.38]	3.45 [87.63]
756	15.07 [382.77]	10.83 [275.08]	3.95 [100.33]
806	15.57 [395.47]	11.33 [287.78]	4.45 [113.03]
856	16.07 [408.17]	11.83 [300.48]	4.95 [125.73]
906	16.57 [420.87]	12.33 [313.18]	5.45 [138.43]

DRAWING REVISION	REVISION BY	DATE
L	H. ADIKE	1-29-2018
ECO	PST	2-5-2018

ECO-0143026

ECO DESCRIPTION  
**OUTLINE CONVERSION PROJECT**

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	+0.1	[+2.5]	±7°-30°
.XX	+0.03	[+0.76]	
.XXX	+0.005	[+0.127]	
.XXXX	+0.0005	[+0.0127]	

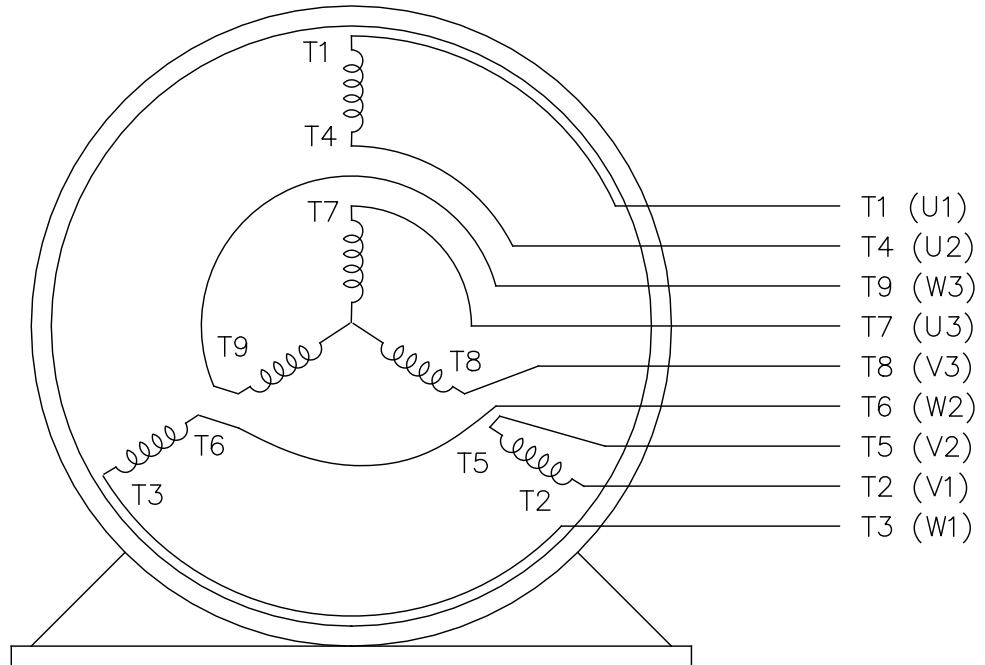
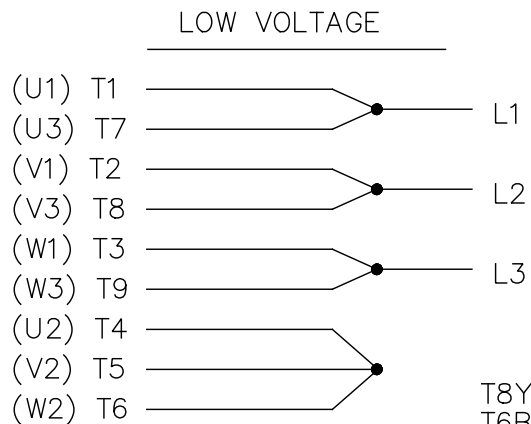
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°  
CORNER FILLETS: R.02 [51]  
MACHINED SURFACES: 200<sup>√</sup> 5.1<sup>√</sup>  
INCH mm  
mm SHOWN IN [BRACKETS]

DRAWN BY	MRB
DATE	12-20-1994
APPROVED BY	GK
DATE	12-21-1994
REFERENCE	100133
THIRD ANGLE PROJECTION	

REGAL™ Regal Beloit America, Inc.	
DESCRIPTION	<b>OUTLINE</b> 140 FR. - TEFC - 'C' FACE
MATERIAL	PROCESS/FINISH
SIZE	DRAWING NUMBER
B	100133
SHEET	1 OF 1

EE7308

THREE PHASE  
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

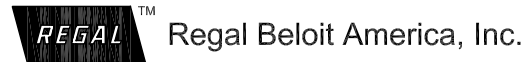
REF.  
WINDING DIAGRAM

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

OPTIONAL CORD  
CONNECTION

L1 — WHITE  
L2 — RED  
L3 — BLACK

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990				
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					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		TITLE CONNECTION DIAGRAM	SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		3Ø - DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF				
					±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 A	DRAWING NO. EE7308	PAGE OF 5	REV. 5
							DIST WP					



**CERTIFICATION DATA SHEET**

**Model#:** 145TTFR16106 AA      **WINDING#:** ZT2175 FR 1  
**CONN. DIAGRAM:** EE7308      **ASSEMBLY:** F1 ONLY  
**OUTLINE:** A-100133-906

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	3600	3505&2930	145JM	TEFC	M	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	7.6/3.8&6.4/3.2	ACROSS THE LINE	CONTINUOUS	F3	1.15/1.15	40	3300

FULL LOAD EFF: 87.5&87.5	3/4 LOAD EFF: 87.9	1/2 LOAD EFF: 85.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 84&80	3/4 LOAD PF: 78.4	1/2 LOAD PF: 67.3	85.5	SQ CAGE IND RUN	3.4 / 1.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	73.8 / 36.9	17.29 LB-FT 384	22.7 LB-FT 504	57

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
68 dBA	78 dBA	0.045 LB-FT^2	5 LB-FT^2	10 SEC.	2	43.6 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE	POLYREX EM	JM	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
BALL	BALL						
6206	6203						

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

If Inverter equals NONE, contact factory for further information

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

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\*

DATE: 06/23/2017 07:40:28 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 6/29/2017

148TFR16106

Customer:  
Attention:

FAREEDA DUDEKULA



Submital  
Data @ 460 V

Load	Motor Load Data					
	0%	25%	50%	75%	100%	LR
Current (Amps)	1.70	1.90	2.40	3.1	3.8	4.3
Torque (ft-lb)	0.00	1.10	2.22	3.4	4.5	5.2
RPM	3600	3577	3555	3530	3505	3475
Efficiency (%)		78.6	85.8	87.9	87.5	87.1
P.F. (%)	11.0	46.4	67.3	78.4	84.0	86.5

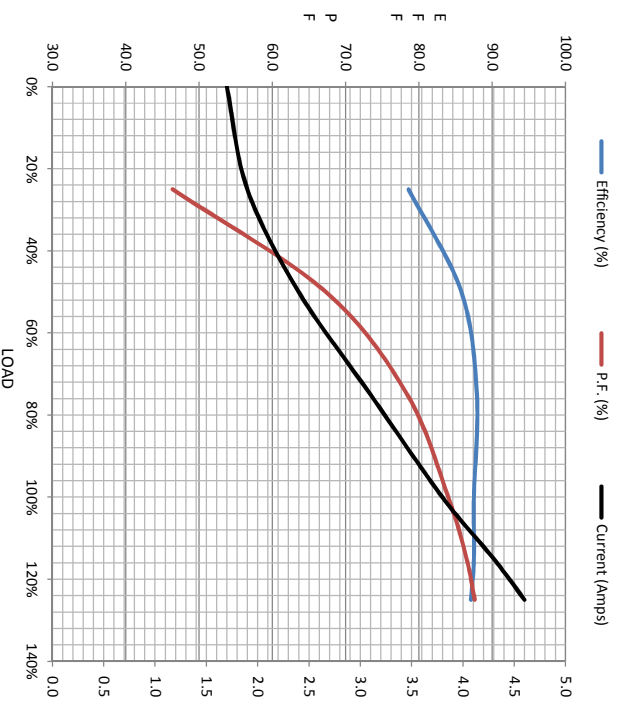
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	230	2385	3505	3600
Current (Amps)	36.9	38.3	22.2	3.8	1.70
Torque (ft-lb)	17.3	16.6	22.7	4.5	0.00

Information Block

HP	3.0
Sync. RPM	3600
Frame	145
Enclosure	TEFC
Construction	TFR
Voltage	30/460#190/38 V
Frequency	60 HZ
Design	A
LR Code letter	M
Service Factor	1.15
Temp Rise @ FL	57 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Motor/Shaft wkt	0.05 Lb-Fe
Rel Wdg	Z12175 FR
Sound Pressure @ 1M	68 dbA
VFD Rating	NONE
Outline Dwg	A-100133-906
Conn. Diag	EE7308
Additional Specifications:	
0	

EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve

