

PRODUCT INFORMATION PACKET

Model No: 254TTFL16045

Catalog No: U348A

15 HP Close-Coupled Pump Motor, 3 phase, 1800 RPM, 230/460 V, 254JM Frame, TEFC
JM Motors



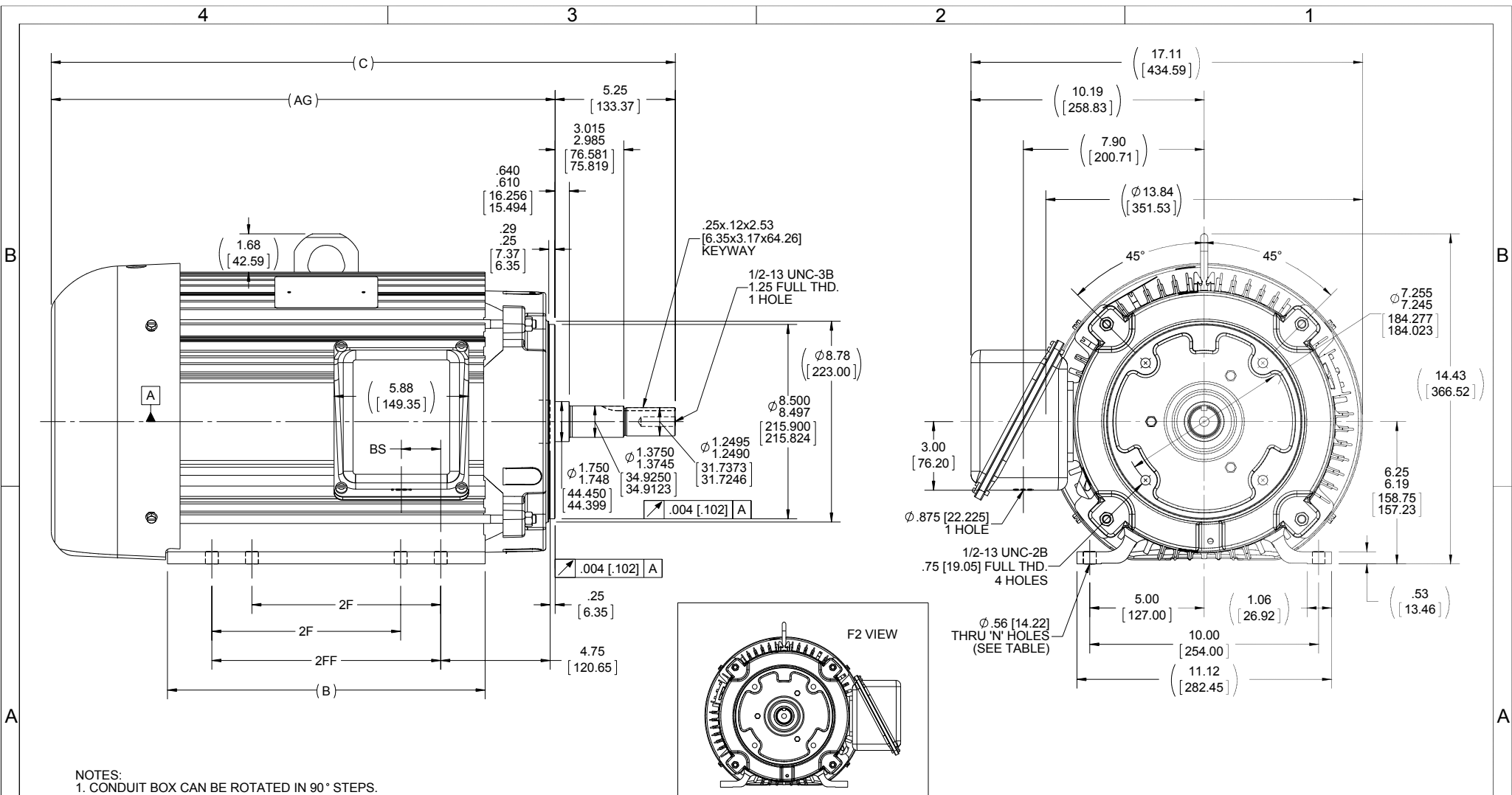
Nameplate Specifications

Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	37.5/18.8 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	92.4 %	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	254JM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6208
UL	Recognized	CSA	Y
CE	Y	IP Code	43

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.649 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Aluminum
Shaft Type	JM	Overall Length	25.52 in
Frame Length	12.00 in	Shaft Diameter	1.250 in
Shaft Extension	5.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS321151-1200	Connection Drawing	A-EE7308

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- 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. NAMEPLATES READ FROM CONDUIT BOX SIDE OF MOTOR.

1200	254JM	25.52 [648.21]	20.27 [514.86]	12.13 [308.10]	---	8.25 [209.55]	1.73 [43.94]	4
1375	254/256JM	27.27 [692.62]	22.02 [559.26]	13.88 [352.55]	8.25 [209.55]	10.00 [254.00]	1.73 [43.94]	8
DASH	FRAME	C	AG	B	2F	2FF	BS	N

DRAWING REVISION D	REVISION BY MSG	DATE 11-18-2015
ECO ECO-0088803	APPROVED BY TVUE	DATE 11-18-2015
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	+0.1	[+2.5]
.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 $\sqrt{\text{mm}}$ 5.1 $\sqrt{\text{INCH}}$		
mm SHOWN IN [BRACKETS]		

DRAWN BY RWR
DATE 07-10-2007
APPROVED BY ML
DATE 07-11-2007
REFERENCE
THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

OUTLINE
 250 JM FR. - TEFC - ALUMINUM FRAME

MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS321151
	SHEET 1 OF 1



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				
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							DIST WP					



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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
 ORDER #: _____ REFERENCE MODEL #: 254TTFL16045
 CONN. DIAGRAM: A-EE7308 CAT #: U348A
 B-SS921151-1200
 WINDING: K2564165 R26 1 CUSTOMER PART #: _____
 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	1775	254JM	TEFC	TEY	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	37.5/18.8&31/15.5	ACROSS-THE LINE	CONT	F	1.15	40	3300
	F.L. EFF	92.4	3/4 LD EFF	92.4	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE	
	F.L. PF	81.0	3/4 LD PF	78.0	1/2 LD PF	68.0	91.7	SQ CAGE IND RUN	
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)					
44.4 LB-FT	110	85.0 LB-FT	125 LB-FT	282%					
@ 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	25 SEC.	2	325 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	JM	NONE	NONE	1045 HOT ROLLED (C-204)		ALUMINIUM	
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		
0.376	0.238	1.351	1.777	32.508	0.150	ODE		

* INVERTER TORQUE: NONE
 INV. HP SPEED RANGE: NONE
 ENCODER: NONE
 NONE
 NONE
 BRAKE: NONE
 NONE
 FT-LB: NA
 VOLTAGE: NONE
 NONE
 NONE PPR

PREPARED BY: FAREEDA DUDEKULA
 DATE: 9/10/2018
 FORM: 3531 REV 4 2/27/06
 UL: V-INS, CONST UL REC
 HZ:

Data Sheet

Date: 11/29/2018

254TFL16045

Customer: _____
 Attention: _____



Submital

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

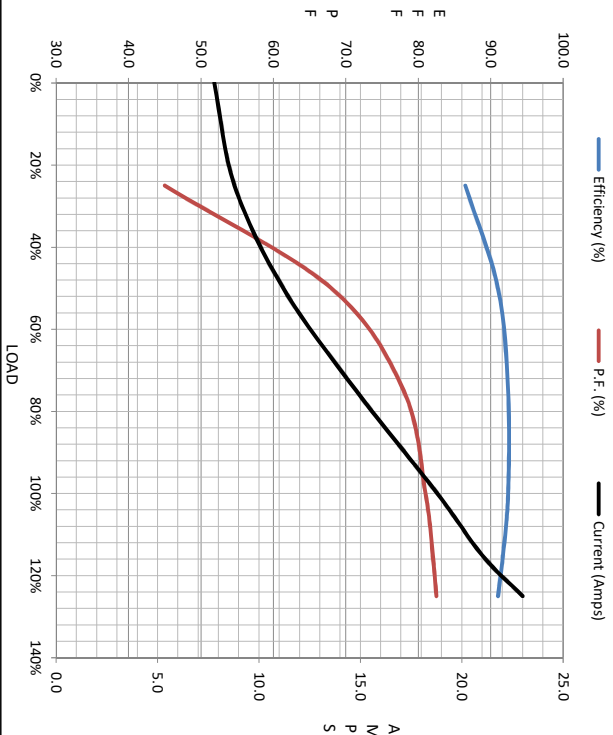
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	7.8	8.8	11.2	14.8	18.8	21.0	23.0	110
Torque (ft-lb)	0.00	11.0	22.0	33.5	44.4	50.5	56.0	85.0
RPM	1800	1792	1788	1780	1775	1,770	1765	0
Efficiency (%)		86.5	91.0	92.4	92.4	91.7	91.0	
P.F. (%)	11.5	45.0	68.0	78.0	81.0	82.0	82.5	40.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1775	1800
Current (Amps)	110	95.0	69.0	18.8	7.8
Torque (ft-lb)	85.0	75.0	125	44.4	0.00

Information Block

HP	150				
Sync. RPM	1800				
Frame	254				
Enclosure	TEFC				
Construction	TFL				
Voltage	230/460#190/380 V				
Frequency	60 Hz				
Design	B				
LR Code letter	G				
Service Factor	1.15				
Temp Rise @ FL	55 °C				
Duty	CONT				
Ambient	40 °C				
Elevation	1,000 feet				
Rotor/Shaft wk ²	2.40 Lb-Ft ²				
Ret Wdg	K2564165 R26				
Sound Pressure @ 1M	65 dBA				
VFD Rating	NONE				
Outline Dwg	B-SS32151-1200				
Conn. Diag	A-EE7308				
Additional Specifications:					
0					
0					
	EQUIV CKT (OHMS / PHASE)				
	R1	R2	X1	X2	Xm
	0.3760	0.2380	1.3510	1.7770	32.5080



Speed - Torque Curve

