

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 184TTFN16105

Catalog No: L410C

XRI® General Purpose General Purpose Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
900 & 750 RPM, 184T Frame, TEFC



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**RegalRexnord**

### Nameplate Specifications

Phase	3	Output HP	1.50 & 1 Hp
Output KW	1.1 & 0.75 kW	Voltage	230/460 & 190/380 V
Speed	875 & 730 rpm	Service Factor	1.15 & 1.15
Frame	184T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	80 & 77 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	6/3 & 5.6/2.8 A	Power Factor	58
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	8	Rotation	Reversible
Resistance Main	10.2 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	17.87 in
Frame Length	10.00 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	035662-1000	Connection Drawing	EE7308





				TOLERANCES UNLESS SPECIFIED		 <b>Regal</b> Beloit America, Inc.	DRAWN RM	11/20/1990
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		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		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR		REF
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005	MAT'L.		FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7"30"	FINISH		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	DRAWING NO. PAGE OF REV.
			DIST WP				A	EE7308

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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 #: 184TTFN16105  
CONN. DIAGRAM: EE7308 CAT #: L410C  
OUTLINE: 035662.00 CUSTOMER PART #: \_\_\_\_\_  
WINDING: 184814 NONE 2 MOUNTING: F1/F2 CAPABLE  
SPEED: \_\_\_\_\_

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
1.5	1.1	900	875	184T	TEFC	TFN	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	6/3&5.6/2.8	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	78.5	3/4 LD EFF	78.5	1/2 LD EFF	74.0	GTD EFF	ELECT. TYPE
F.L. PF	58.0	3/4 LD PF	49.0	1/2 LD PF	38.0	77.5	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
9.0 LB-FT	13.5	15.0 LB-FT 167%	22.5 LB-FT 250%	45

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
54 dBA	63 dBA	0.42 LB-FT²	0 LB-FT²	20 SEC.	4	120 LB.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
6206	6206						

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
5.935	3.345	12.663	15.498	107.352	0.150	ODE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE  ENCODER: NONE NONE NONE NONE PPR
PREPARED BY: FAREEDA DUDEKULA DATE: 9/11/2018		BRAKE: NONE NONE NONE FT-LB: NA VOLTAGE: NONE HZ:

FORM: 3531 REV\_4 2/27/06

UL: V-INS, CONST UL REC

## Data Sheet

Date: 12/3/2018

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



184TTFN16105

Submittal

Data @ 460 V

## Motor Load Data

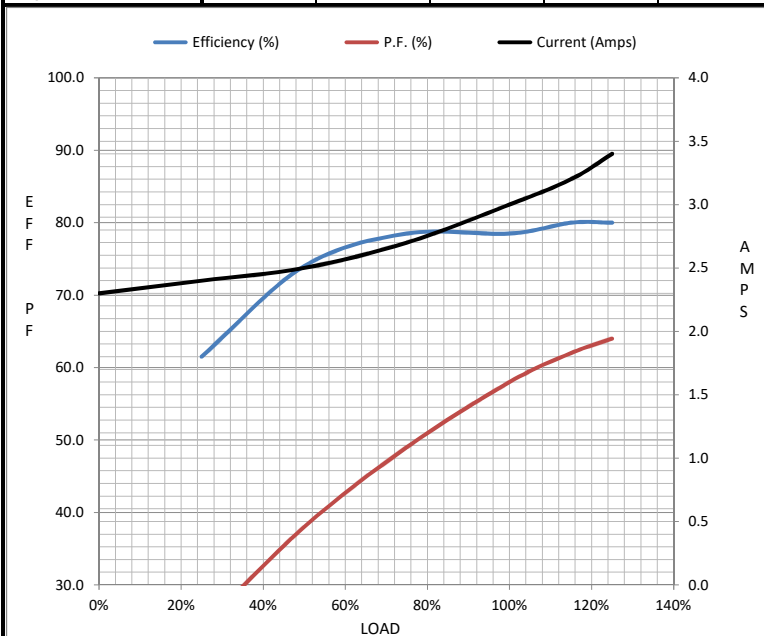
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.30	2.40	2.50	2.70	3.0	3.2	3.4	13.5	
Torque (ft-lb)	0.00	2.20	4.5	6.8	9.0	10.5	11.5	15.0	
RPM	900	895	888	882	875	870	865	0	
Efficiency (%)		61.5	74.0	78.5	78.5	80.0	80.0		
P.F. (%)	8.5	24.0	38.0	49.0	58.0	62.0	64.0	46.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	750	875	900
Current (Amps)	13.5	12.0	8.5	3.0	2.30
Torque (ft-lb)	15.0	13.5	22.5	9.0	0.00

## Information Block

HP	1.5			
Sync. RPM	900			
Frame	184			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380		V	
Frequency	60		Hz	
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	45		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	0.42		Lb-Ft²	
Ref Wdg	184814	NONE		
Sound Pressure @ 1M	54		dBA	
VFD Rating	NONE			
Outline Dwg	035662.00			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
5.9350	3.3450	12.6630	15.4980	107.3520



## Speed -Torque Curve

