

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 213TTWR4026

Catalog No: N618

Other Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V, 1800 & 1500 RPM,  
213TC Frame, TEFC



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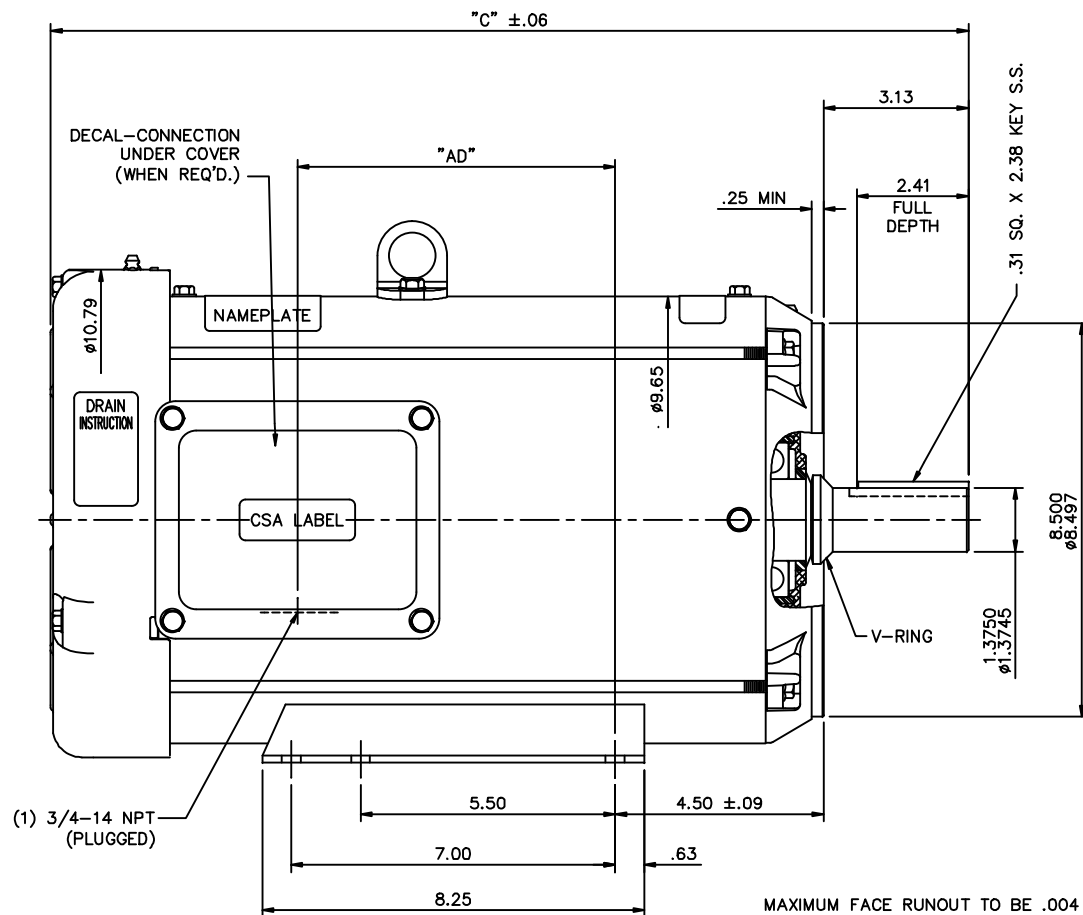
**RegalRexnord**

### Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	208-230/460 & 190/380 V
Speed	1760 & 1450 rpm	Service Factor	1.15 & 1.15
Frame	213TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	24-22/11 & 18/9 A	Power Factor	72
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6209	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	1.228 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	18.21 in
Frame Length	10.50 in	Shaft Diameter	1.380 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	005010.01ME	Outline Drawing	037639ME-1100




MAXIMUM FACE RUNOUT TO BE .004 T.I.R.  
MAXIMUM PILOT ECCENTRICITY TO BE .004 T.I.R.  
PERMISSIBLE SHAFT RUNOUT TO BE .002 T.I.R.

SPECIAL FEATURES:

BUNA-N GASKETS THROUGHOUT  
SHAFT SEALS - BOTH ENDS OF MOTOR  
V-RING AT SHAFT END OF MOTOR  
STAINLESS STEEL SHAFT, NAMEPLATE & HARDWARE

DASH NO.	"C"	"AD"
1100	17.71	4.75
1150	18.21	5.25
1200	18.71	5.75
1250	19.21	6.25
1300	19.71	6.75
1350	20.21	7.25

				TOLERANCES UNLESS SPECIFIED			DRAWN LST 6/25/08
				DEC. INCHES			CHK
				.X ±.1			APPD
				.XX ±.03	TITLE OUTLINE - 210TC FRAME TEFC - "C" FACE		SCALE 3=8
02	ADDED WASH GUARD LABEL	SD 04/09/2011		.XXX ±.005			REF 037638
01	ADD BASE PER CUSTOMER	LST 9/4/2008		.XXXX ±.0005	MAT'L.	WASHGUARD	FMF
NO.	REVISION	BY & DATE	CHK	ANG ±1/2"	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	037639ME	SIZE B
				DIST			DRAWING NO. 037639
							REVISED BY 02

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



## LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED				DRAWN RDW 04/12/02		
				DEC.	INCHES			CHK		
				.X	±.1			APPD		
				.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR		SCALE 1=1		
				.XXX	±.005			REF FIG.2-51		
				.XXXX	±.0005	MAT'L. DECAL - 004014		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH		PREV		
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			DIST							

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## CERTIFICATION DATA SHEET

**Model#:** 213TTWR4026 AA  
**CONN. DIAGRAM:** 005010.01ME  
**OUTLINE:** 037639ME-1050

**WINDING#:** T9490 FR 3  
**ASSEMBLY:** F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	1800	1760&1450	213TC	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	208- 230/460#190/ 380	24-22/11&18/9	ACROSS THE LINE	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 89.5	3/4 LOAD EFF: 87.7	1/2 LOAD EFF: 86.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 72	3/4 LOAD PF: 74.4	1/2 LOAD PF: 65	0	SQ CAGE IND RUN	8.8 / 4.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.5 LB-FT	140 / 70	51.5 LB-FT 229	72 LB-FT 320	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	0.801 LB-FT^2	0.8 LB-FT^2	0 SEC.	0	0 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	WHITE - LEESON (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	303 STAINLESS (C-501)	ROLLED STEEL
6209	6206						

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

If Inverter equals NONE, contact factory for further  
information

\*  
N  
O  
T  
E  
S  
\*

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

DATE: 06/22/2017 06:52:35 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

Date: 12/13/2018

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

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

Submitted by: FAREEDA DUDEKULA



213TTWR4026

Submittal

Data @ 460 V

## Motor Load Data

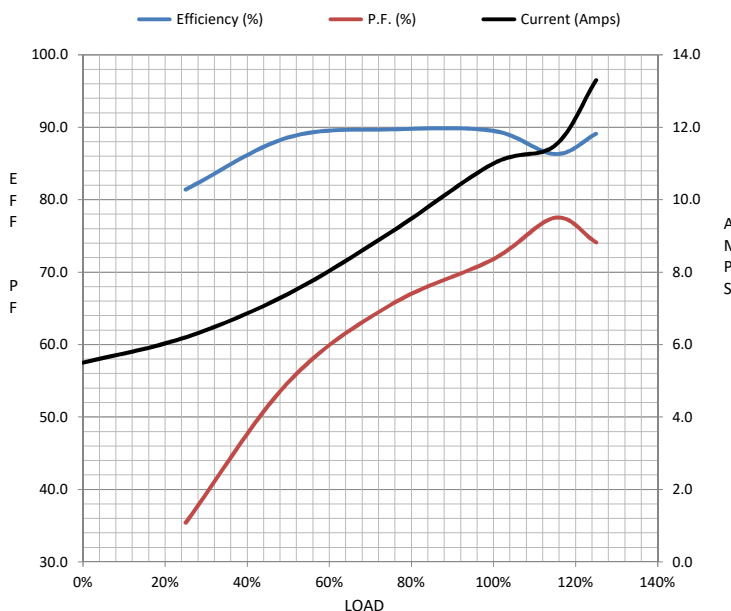
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.5	6.2	7.4	9.1	11.0	11.5	13.3	57.0	
Torque (ft-lb)	0.00	5.6	11.3	16.9	22.5	24.5	28.1	48.2	
RPM	1800	1791	1783	1774	1765	1,760	1754	0	
Efficiency (%)		81.4	88.6	89.7	89.5	86.3	89.1		
P.F. (%)	6.8	35.4	54.8	65.5	71.8	77.5	74.1	0.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1600	1765	1800
Current (Amps)	57.0	52.0	33.0	11.0	5.5
Torque (ft-lb)	48.2	44.0	57.0	22.5	0.00

## Information Block

HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	TEFC			
Construction	TFR			
Voltage	208-230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	60	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	0.80	Lb-Ft²		
Ref Wdg	T9490 FR			
Sound Pressure @ 1M	60	dBA		
VFD Rating	NONE			
Outline Dwg	037639ME-1050			
Conn. Diag	005010.01ME			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



## Speed -Torque Curve

