

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 256TTFNA14022

Catalog No: Y1610

Fire Pump Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM, 256T Frame,
TEFC



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RegalRexnord

Nameplate Specifications

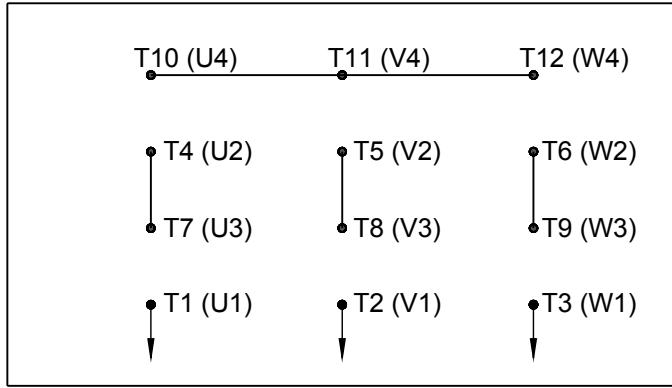
Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	230/460 & 190/380 V
Speed	3525 & 2932 rpm	Service Factor	1.15 & 1.15
Frame	256T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	90.2 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	46.5/23.2 & 43/21.5 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6210
UL	Listed	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

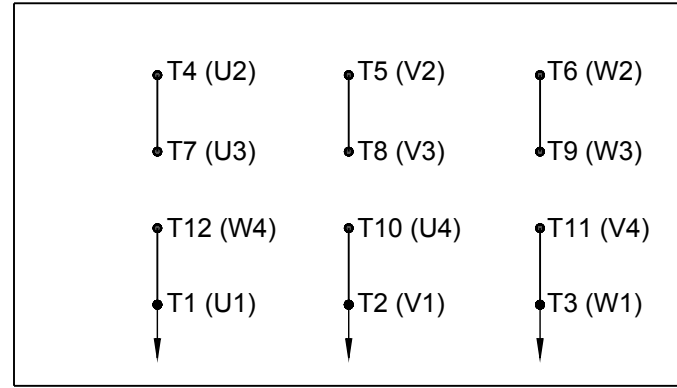
Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.465 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	25.40 in
Frame Length	12.44 in	Shaft Diameter	1.625 in
Shaft Extension	4.20 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7358	Outline Drawing	B-SS203002-1225

HIGH VOLTAGE

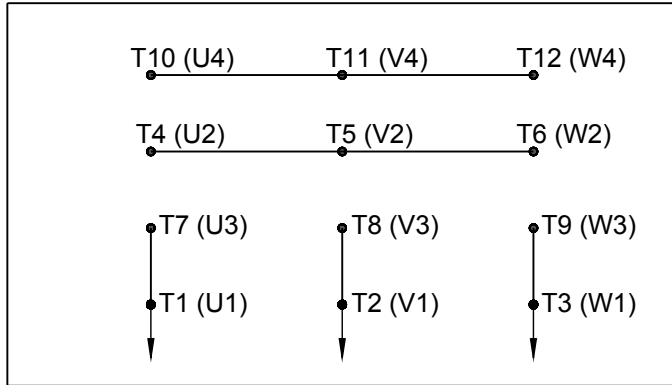
WYE START



DELTA RUN

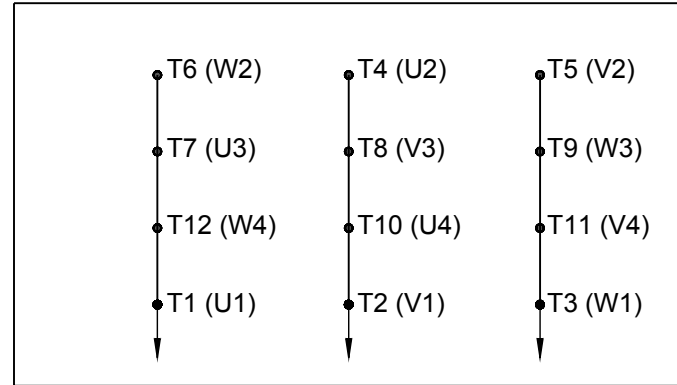


WYE START



LOW VOLTAGE

DELTA RUN

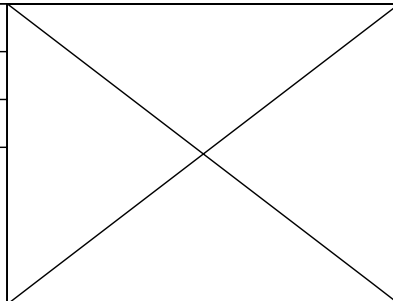


4/2 CKTY \triangle

DRAWING REVISION D	REVISION BY JWO	DATE 01-26-2016
ECO ECO-0092547	APPROVED BY TB	DATE 01-26-2016

ECO DESCRIPTION
ADDED IEC MARKINGS

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DRAWN BY BLR	
DATE 03-09-1998	
APPROVED BY GK	
DATE 03-23-1998	
REFERENCE	

Regal Beloit America, Inc.	
DESCRIPTION CONN DIAGRAM-EXTERNAL 12 LEAD - DUAL VOLT. - WYE START - DELTA RUN	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7358
SHEET 1 OF 1	



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 #:** 256TTFNA14022
CONN. DIAGRAM: A-EE7358 **CAT #:** Y1610
OUTLINE: B-SS203002-1225 **CUSTOMER PART #:** _____
WINDING: K2562196 NONE 4 **MOUNTING:** F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
20	14.9	3600	3525	256T	TEFC	TFN	F	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	46.5/23.2&43/21.5	WS(LV ONLY) & YDRU	CONT	F	1.15	40	3300

F.L. EFF	90.2	3/4 LD EFF	91.0	1/2 LD EFF	90.2	GTD EFF	88.5	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	88.0	3/4 LD PF	87.0	1/2 LD PF	81.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
30.0 LB-FT	135	47.5 LB-FT 158%	72.0 LB-FT 240%	70

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
75 dBA	84 dBA	1.25 LB-FT²	22 LB-FT²	20 SEC.	2	360 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	RED (ENAMEL)

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

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
0.312	0.241	1.235	1.207	42.458	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: 9/17/2018	BRAKE: NONE	
	NONE NONE	
	FT-LB:	NA
	VOLTAGE:	NONE HZ:
	UL: NONE	

FORM: 3531 REV_4 2/27/06

Data Sheet

Date: 12/10/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



256TTFNA14022

Submittal

Data @ 460 V

Motor Load Data

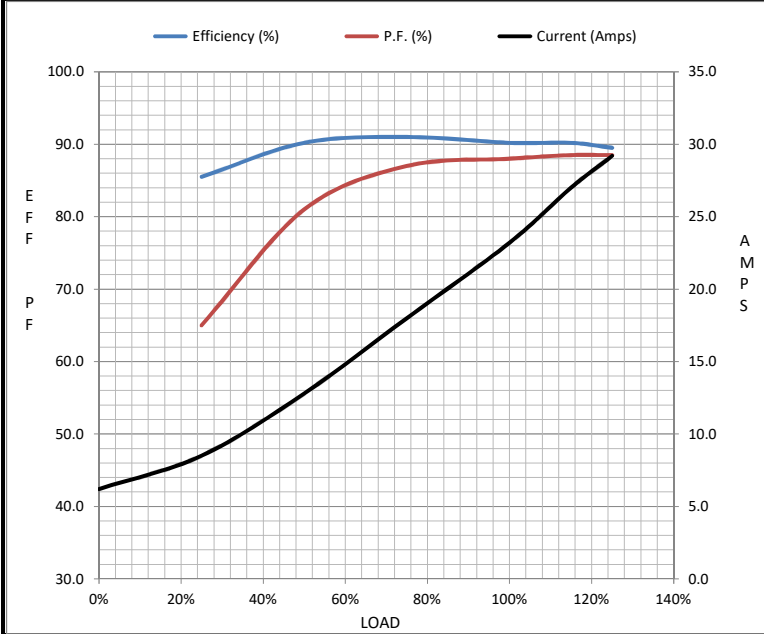
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	6.2	8.5	12.8	18.0	23.2	27.0	29.2	135
Torque (ft-lb)	0.00	7.4	14.8	22.2	30.0	34.5	37.5	47.5
RPM	3600	3582	3565	3545	3525	3510	3500	0
Efficiency (%)		85.5	90.2	91.0	90.2	90.2	89.5	
P.F. (%)	10.0	65.0	81.0	87.0	88.0	88.5	88.5	35.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3250	3525	3600
Current (Amps)	135	120	80.0	23.2	6.2
Torque (ft-lb)	47.5	36.0	72.0	30.0	0.00

Information Block

HP	20.0			
Sync. RPM	3600			
Frame	256			
Enclosure	TEFC			
Construction	TFS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.25 Lb-Ft ²			
Ref Wdg	K2562196 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS203002-1225			
Conn. Diag	A-EE7358			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3120	0.2410	1.2350	1.2070	42.4580



Speed - Torque Curve

