

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 256TTFCA6092

Catalog No: GT3220

10 HP Close-Coupled Pump Motor, 3 phase, 1200 RPM, 575 V, 256JMV Frame, TEFC  
Close-Coupled Pump Motors



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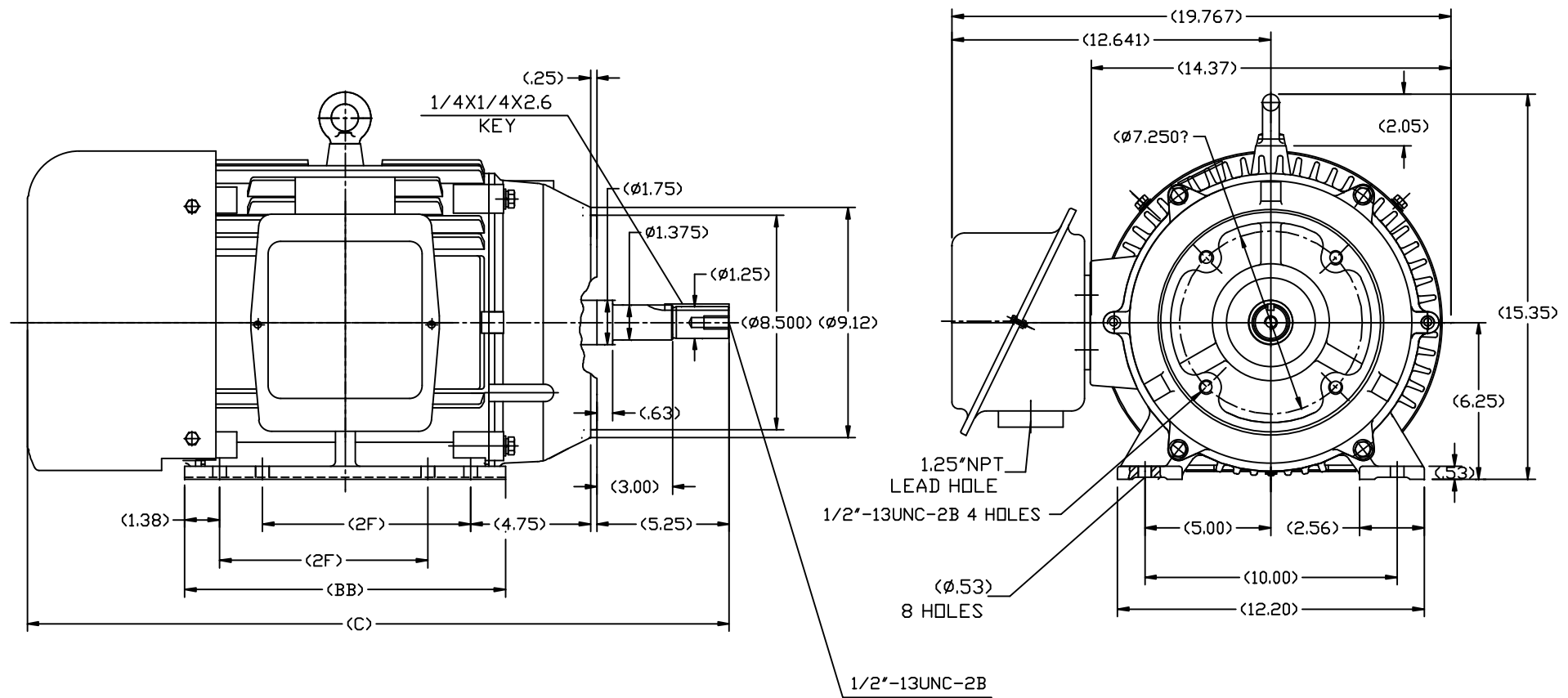
**RegalRexnord**

### Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	575 V
Current	11.2 A	Speed	1180 rpm
Service Factor	1.15	Phase	3
Efficiency	91 %	Power Factor	74
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	256JMV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.935 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal Or Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	JM	Overall Length	27.80 in
Shaft Diameter	1.250 in	Shaft Extension	5.25 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Outline Drawing	SS620564-256	Connection Drawing	EE7300



254	26.60	12.80	8.25
256	27.80	13.98	10.00
FRAME	C	BB	2F

		TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT CORPORATION		DRAWN L.S.J 05-16-2012	
		DEC.	INCHES			CHK	
		.X	±.1	TITLE OUTLINE 254/256TC FR-TEFC-CAST IRON		APPD	
		.XX	±.03			SCALE	1=4
		.XXX	±.005			REF	
		.XXXX	±.0005	MATERIAL FINISH		FMF	HWADA
						PREV	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2	RFP	
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				CAD FILE		SS620564	SIZE
				DIST		B	DRAWING NO.
						SS620564	REV.

# THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.

## TERMINAL BLOCK WHEN SPECIFIED



### IF MOTOR HAS 6 LEADS



A-9806 DECAL

### OPTIONAL CORD CONNECTION



## VIEW OF TERMINAL END

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION



Regal Beloit America, Inc.

DESCRIPTION  
**CONNECTION DIAGRAM**  
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL PROCESS/FINISH

SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1
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## CERTIFICATION DATA SHEET

Model#: 256TTFCA6092 AA

WINDING#: CHT25660001 NONE 3

CONN. DIAGRAM: EE7300

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620564

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1200	1180	256JMV	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	11.2	LINE OR INVERTER	CONTINUOU S	F7	1.15	40	3300

FULL LOAD EFF: 91	3/4 LOAD EFF: 91	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 74	3/4 LOAD PF: 68	1/2 LOAD PF: 56	90.2	SQ CAGE INV RATED	5.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.5 LB-FT	60	69 LB-FT 155	130 LB-FT 292	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	3 LB-FT^2	200 LB-FT^2	20 SEC.	2	375 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 OR SHAFT DOWN	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6309	6209	POLYREX EM	JM	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

INVERTER TORQUE: VARIABLE 10:1			
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 07:00:19 AM

FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.

## Data Sheet

Date: 6/19/2017

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

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

Submitted by: FAREEDA DUDEKULA



256TTFCA6092

Submittal

Data @ 575 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.6	6.1	7.4	9.0	10.7	11.8	13.2	60.0	
Torque (ft-lb)	0.00	11.0	22.0	33.2	44.5	51.5	56.0	69.0	
RPM	1200	1195	1190	1185	1180	1,178	1175	0	
Efficiency (%)		84.0	90.2	91.0	91.0	91.0	90.2		
P.F. (%)	5.0	36.0	56.0	68.0	76.0	76.5	77.0	35.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																																
Speed (RPM)	0	400	1100	1180	1200	HP	10.0																															
Current (Amps)	60.0	54.4	36.4	10.7	5.6	Sync. RPM	1200																															
Torque (ft-lb)	69.0	61.0	130	44.5	0.00	Frame	256																															
<div><div>— Efficiency (%) — P.F. (%) — Current (Amps)</div><table><caption>Graph Data</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>84</td><td>1.5</td><td>5.8</td></tr><tr><td>40</td><td>89</td><td>4.5</td><td>6.2</td></tr><tr><td>60</td><td>91</td><td>7.5</td><td>7.5</td></tr><tr><td>80</td><td>91</td><td>8.5</td><td>8.8</td></tr><tr><td>100</td><td>91</td><td>9.5</td><td>10.2</td></tr><tr><td>125</td><td>90</td><td>9.6</td><td>13.5</td></tr></tbody></table></div>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	84	1.5	5.8	40	89	4.5	6.2	60	91	7.5	7.5	80	91	8.5	8.8	100	91	9.5	10.2	125	90	9.6	13.5	Enclosure	TEFC			
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																													
						25	84	1.5	5.8																													
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						80	91	8.5	8.8																													
						100	91	9.5	10.2																													
						125	90	9.6	13.5																													
						Construction	TFC																															
						Voltage	575	V																														
						Frequency	60	Hz																														
						Design	B																															
						LR Code letter	G																															
						Service Factor	1.15																															
						Temp Rise @ FL	45	° C																														
						Duty	CONT																															
						Ambient	40	° C																														
Elevation	1,000	feet																																				
Rotor/Shaft wk²	3.0	Lb-Ft²																																				
Ref Wdg	CHT25660001 NONE																																					
Sound Pressure @ 1M	56	dBA																																				
VFD Rating	VARIABLE 10:1																																					
Outline Dwg	SS620564																																					
Conn. Diag	EE7300																																					
Additional Specifications:																																						
0																																						
0																																						
EQUIV CKT (OHMS / PHASE)																																						
R1	R2	X1	X2	Xm																																		
0.9310	0.5540	2.5700	4.3880	57.3930																																		

## Speed -Torque Curve

