

PRODUCT INFORMATION PACKET

Model No: 256THFNA9101

Catalog No: W536

Severe Duty Motors, TEFC, 7.50 HP, 3 Ph, 60 Hz, 460 V, 875 RPM, 256T Frame



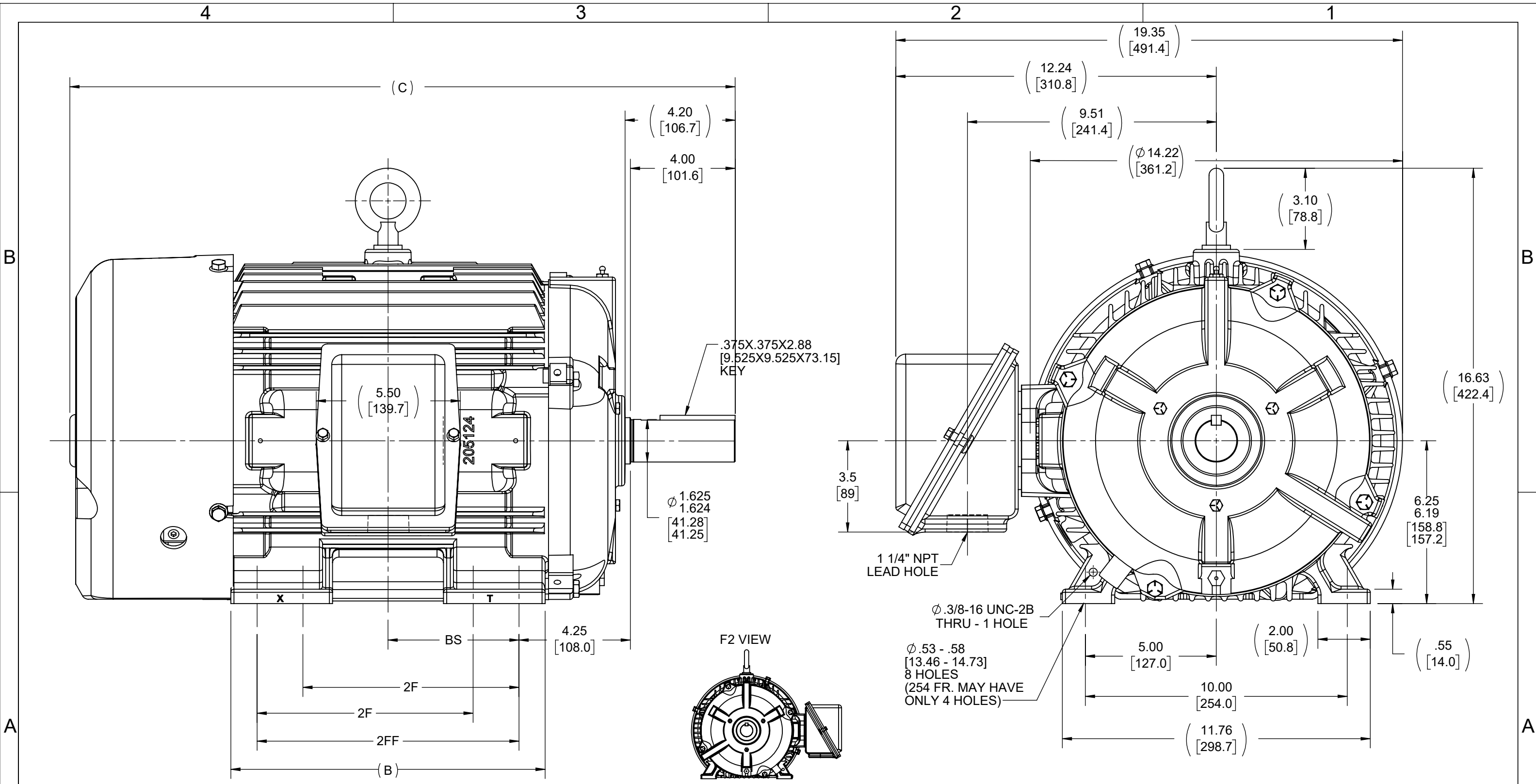
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Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	460 V
Current	11.0 A	Speed	875 rpm
Service Factor	1.15	Phase	3
Efficiency	88.5 %	Power Factor	73
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Frame	256T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	8	Rotation	Reversible
Resistance Main	1.37 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	12.25 in	Shaft Diameter	1.625 in
Shaft Extension	4.2 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	CONSTANT 20:1		
Outline Drawing	B-SS203002-1225	Connection Drawing	A-EE7300



- NOTES:
 1. CONDUIT BOX CAN BE ROTATED ON ITS AXIS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1050	254T	23.65 [600.71]	10.25 [260.35]	---	8.25 [209.55]	4.25 [107.95]
1225	254/256T	25.40 [645.16]	12.00 [304.80]	8.25 [209.55]	10.00 [254.00]	5.00 [127.00]
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION G	REVISION BY PB	REV DATE/© DATE 12/04/2021
REQUEST NUMBER NMR-0211792	APPROVED BY	DATE
REQUEST NUMBER DESCRIPTION		
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TOLERANCES (EXCEPT AS NOTED):
 DEC. INCH mm ANGLE
 .X ±0.1 [±3] ±7° 30"
 .XX ±0.03 [±0.8]
 .XXX ±0.005 [±0.13]
 .XXXX ±0.0005 [±0.013]
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.08/.38] X 45°
 CORNER FILLETS: R.02 [5]
 MACHINED SURFACES: 200/5.1 INCH/mm
 mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY TVUE
DATE 12-18-2013
APPROVED BY TBROWN
DATE 12-18-2013
REFERENCE
THIRD ANGLE PROJECTION

Regal Rexnord Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
250T FR. - TEFC - BB - STD.

MATERIAL PROCESS/FINISH

SIZE **B** DRAWING NUMBER **SS203002** SHEET **1 OF 1**

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

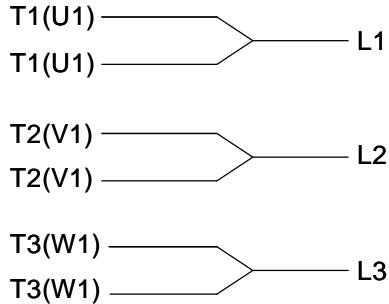
**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**



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	

Data Sheet

Date: 6/20/2017

256THFNA9101

Customer: _____



Attention: _____

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	6.5	7.0	8.0	9.5	11.0	12.5	13.5	53.0
Torque (ft-lb)	0.00	11.0	22.0	33.5	45.0	52.0	57.0	75.0
RPM	900	895	890	880	875	870	865	0
Efficiency (%)		80.0	86.5	88.5	88.5	87.5	87.5	
P.F. (%)	6.0	31.5	50.5	63.0	73.0	73.0	74.0	37.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	780	875	900
Current (Amps)	53.0	50.0	35.0	11.0	6.5
Torque (ft-lb)	75.0	72.0	110	45.0	0.00

Information Block				
HP	7.5			
Sync. RPM	900			
Frame	256			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	45 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	3.0 Lb-Ft ²			
Ref Wdg	K256836 NONE			
Sound Pressure @ 1M	54 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	B-SS203002-1225			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7940	0.7480	3.0880	3.8930	37.5730

