

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 5011LSTFS16559
Catalog No: 5011LSTFS16559
400,1800,TEFC,5011LS,3/60/460

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The logo for Regal Rexnord, featuring a stylized 'R' icon followed by the text 'RegalRexnord'.

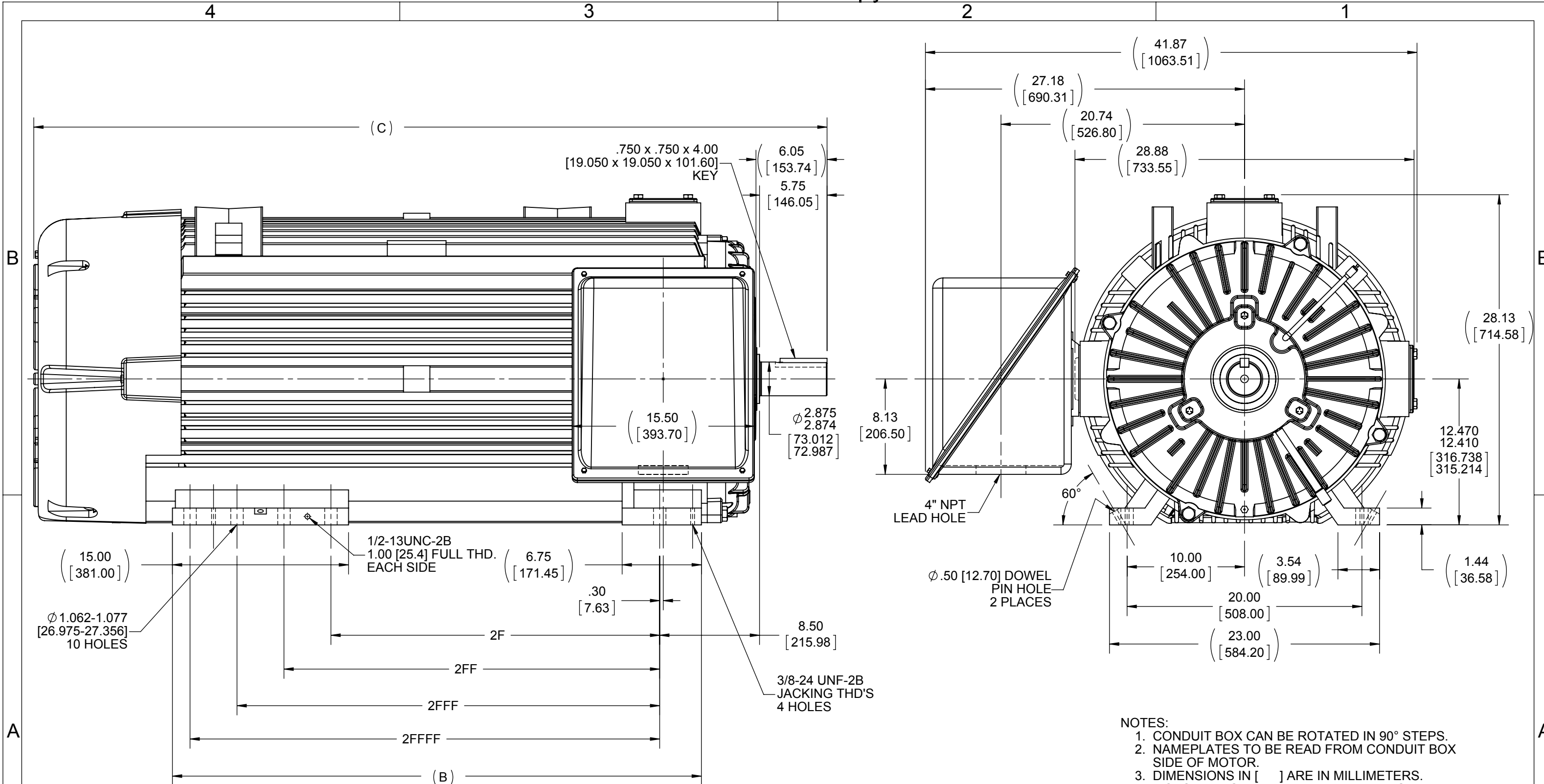
Nameplate Specifications

Output HP	400 Hp	Output KW	300.0 kW
Frequency	60 Hz	Voltage	460 V
Current	435.0 A	Speed	1792 rpm
Service Factor	1.15	Phase	3
Efficiency	96.2 %	Power Factor	88
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	G
Frame	5011LS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6318
UL	No	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	BAR ROTOR INV RATED	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0059 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	LS	Assembly/Box Mounting	F2/F1 CAPABLE
Outline Drawing	SS518503-4950	Connection Drawing	EE7300AP

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- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 3. DIMENSIONS IN [] ARE IN MILLIMETERS.
 4. MOTOR WEIGHT (MAXIMUM) = 5,500 LBS. (2,495 Kg)

DASH	FRAME	B	C	2F	2FF	2FFF	2FFFF
4950	5009LS	45.05 [1144.27]	67.56 [1716.02]	28.00 [711.20]	---	---	---
4950	5010LS	45.05 [1144.27]	67.56 [1716.02]	---	32.00 [812.80]	---	---
4950	5011LS	45.05 [1144.27]	67.56 [1716.02]	---	---	36.00 [914.40]	---
4950	5012LS	45.05 [1144.27]	67.56 [1716.02]	---	---	---	40.00 [1016.00]

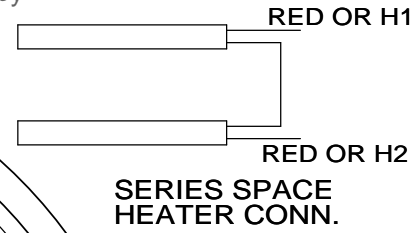
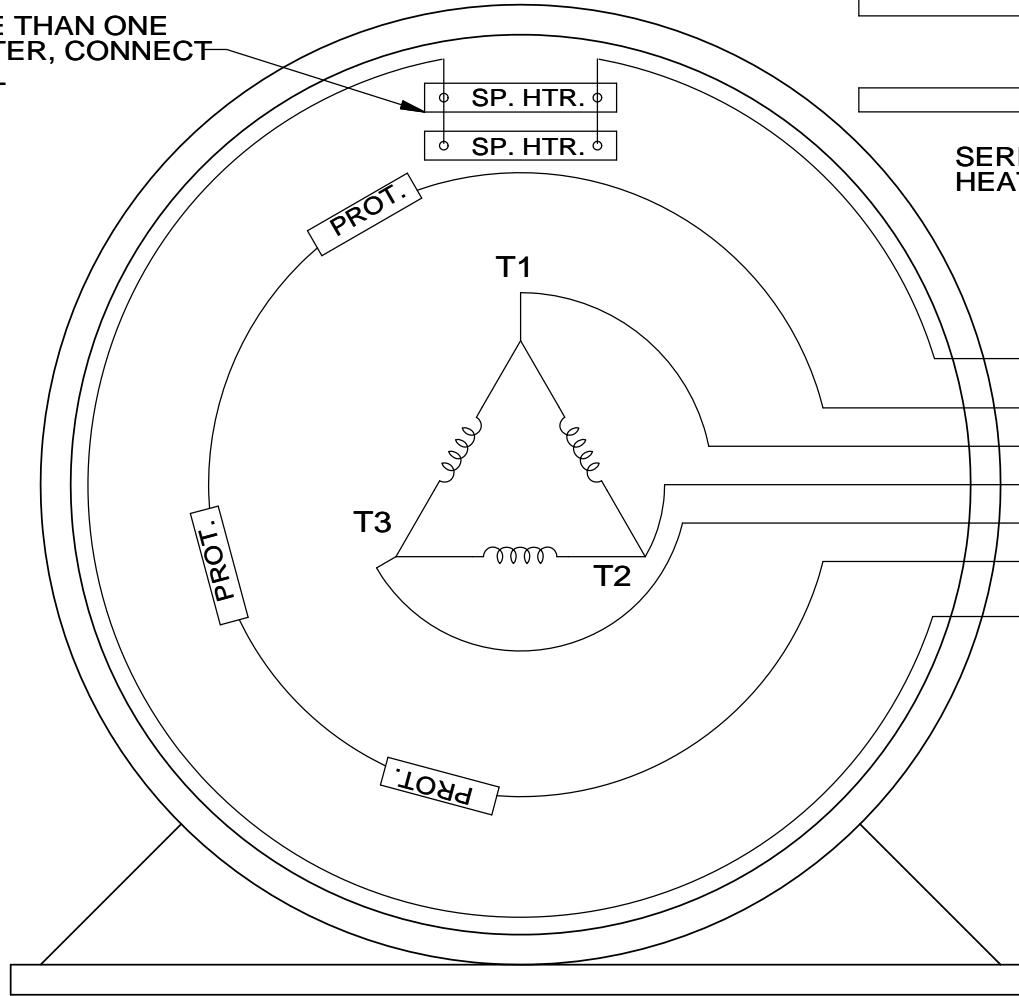
DRAWING REVISION C	REVISION BY JJB	DATE 09-11-2014
ECO ECO-0059657	APPROVED BY TDB	DATE 09-11-2014
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TOLERANCES UNLESS OTHERWISE SPECIFIED:			
DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] CORNER FILLETS: .02 [0.51] MACHINED SURFACES: 200 INCH/mm 5.1 mm SHOWN IN [BRACKETS]			

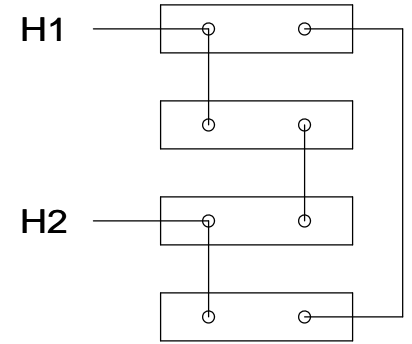
DRAWN BY KL	DATE 05-25-2001
APPROVED BY JES	DATE 05-25-2001
REFERENCE	
THIRD ANGLE PROJECTION	

REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 5009-12LS FR-TEFC-F1/F2/F3 MOUNT-TAPPED LEAD HOLE	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS518503
	SHEET 1 OF 1

WHEN MORE THAN ONE SPACE HEATER, CONNECT IN PARALLEL



SPACE HEATERS CONNECTED IN SERIES PARALLEL

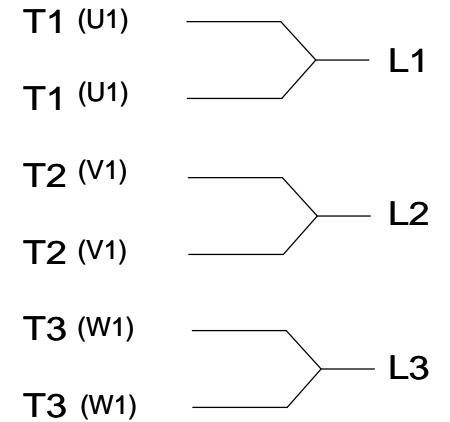


- RED OR H1
- P1 (TP1)
- T1 (U1)
- T2 (V1)
- T3 (W1)
- P2 (TP2)
- RED OR H2

NOTE:
THERMO-PROTECTORS
CONNECTED IN SERIES

VIEW OF TERMINAL END

IF MOTOR OR GEN.
HAS 6 LEADS



DRAWING REVISION J	REVISION BY JHA	DATE 03-06-2017
ECO ECO-0119314	APPROVED BY DJK	DATE 03-06-2017

ECO DESCRIPTION
UPDATED TO SOLIDWORKS

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RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.02	[±0.51]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH 5.1/mm

mm SHOWN IN [BRACKETS]

DRAWN BY KL
DATE 10-08-1993
APPROVED BY TB
DATE 10-12-1993
REFERENCE
THIRD ANGLE PROJECTION

REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION CONN DIAGRAM-EXTERNAL 3 PHASE - SINGLE VOLTAGE - WITH SPACE HEATERS	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7300AP
	SHEET 1 OF 1

Data Sheet

Date: 11/29/2022
 Customer: _____
 Attention: _____
 Submitted by: _____



5011LSTFS16559

Submittal

Data @ 460 V

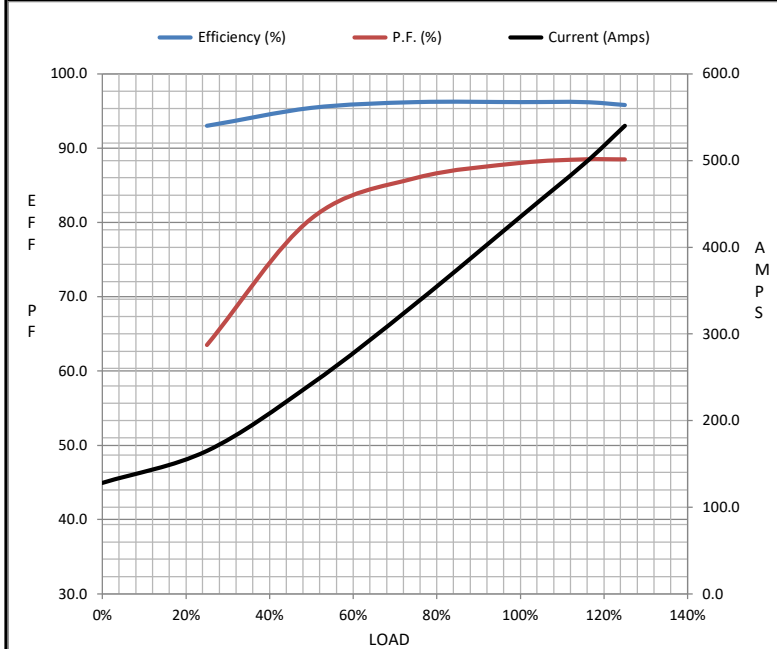
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	128	165	242	335	435	495	540	2,900
Torque (ft-lb)	0.00	292	586	880	1,174	1,354	1,473	1,050
RPM	1800	1798	1796	1794	1792	1,790	1788	0
Efficiency (%)		93.0	95.4	96.2	96.2	96.2	95.8	
P.F. (%)	5.5	63.5	80.5	86.0	88.0	88.5	88.5	16.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1792	1800
Current (Amps)	2,900	2,750	1,900	435	128
Torque (ft-lb)	1,050	850	3,400	1,174	0.00

Information Block				
HP	400.0			
Sync. RPM	1800			
Frame	5011			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	185 Lb-Ft ²			
Ref Wdg	T511492 NONE			
Sound Pressure @ 1M	88 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg				
Conn. Diag	EE7300AP			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0050	0.0030	0.0530	0.0530	2.0480



Speed - Torque Curve

