

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 449TSTDN16003

Catalog No: U793

XRI® General Purpose General Purpose Motor, 400 & 350 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V,
3600 & 3000 RPM, 449TS Frame, DP



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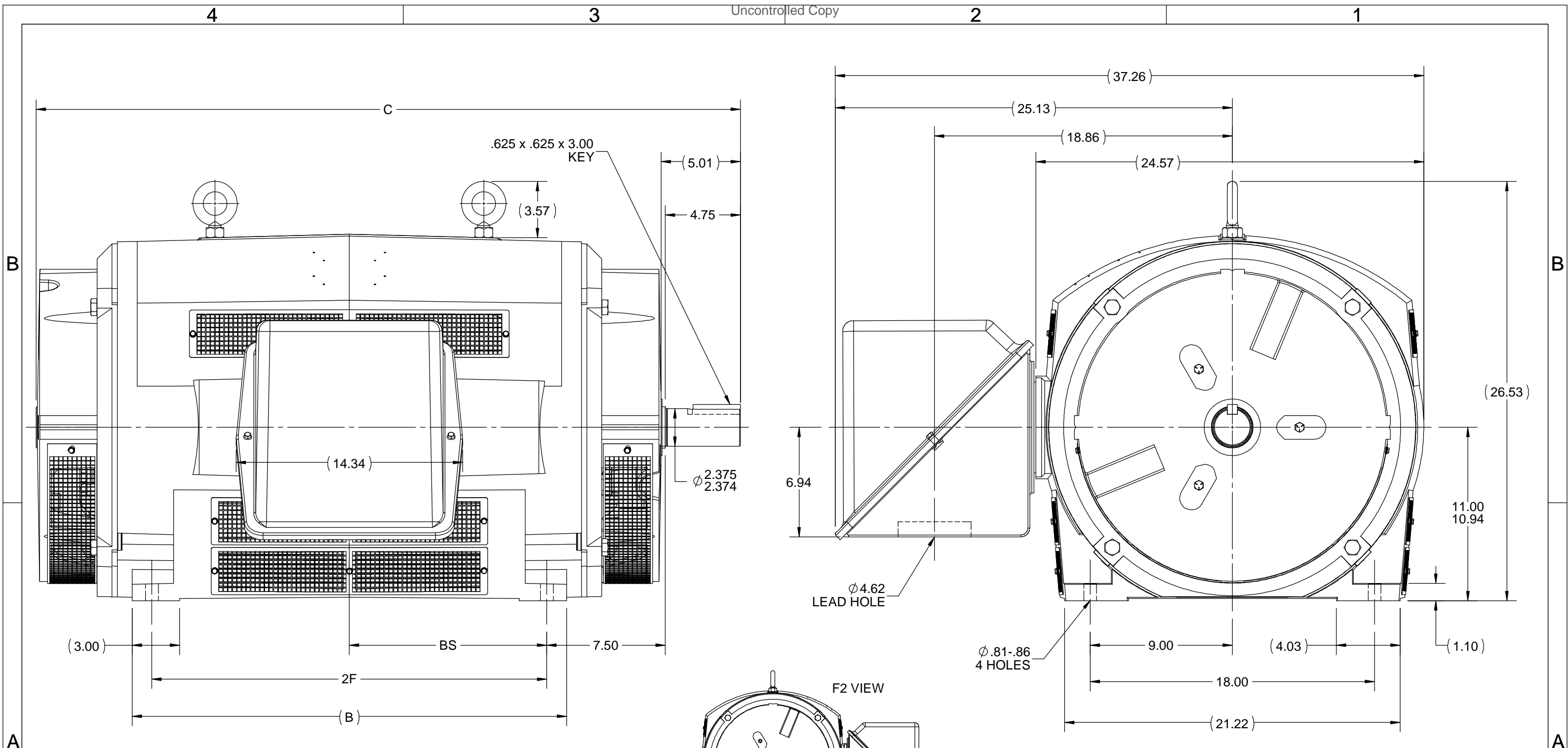
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	400 & 350 Hp
Output KW	300.0 & 260.0 kW	Voltage	460 & 380 V
Speed	3578 & 2975 rpm	Service Factor	1.15 & 1.15
Frame	449TS	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.8 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	450 & 470 A	Power Factor	87
Duty	Continuous	Insulation Class	H
Design Code	B	KVA Code	H
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

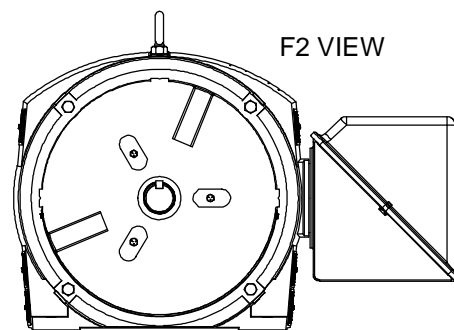
Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Part Wdg Start & Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.008 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	44.50 in
Frame Length	29.38 in	Shaft Diameter	2.375 in
Shaft Extension	5.02 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7300BH	Outline Drawing	B-SS516498-2938



NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
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.



DASH	FRAME	B	C	2F	BS
2438	447TS	22.50	39.58	20.00	10.00
2938	449TS	27.50	44.58	25.00	12.50

DRAWING REVISION C	REVISION BY JP	DATE 07-17-2018
ECO ECO-0149010	APPROVED BY JHA	DATE 07-17-2018
ECO DESCRIPTION MADE CONDUIT BOX SQAURED TO FRAME		
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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 [.076/.381] X 45° CORNER FILLETS: R.02 [.51]			
MACHINED SURFACES: 200 INCH/mm 5.1			
mm SHOWN IN [BRACKETS]			

DRAWN BY KL	DATE 03-30-1998
APPROVED BY DJK	DATE 03-30-1998
REFERENCE	
THIRD ANGLE PROJECTION	

REGAL ™ Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 447/449TS FR - DR. PR. - SCREENED	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS516498
SHEET 1 OF 1	



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		REGAL REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005			
				DEC.	INCHES		CHK	ML	02-11-2005	
				.X	±.1		APPD	GK	02-11-2005	
				.XX	±.02	TITLE CONNECTION DIAGRAM		SCALE		
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX ±.005	12 LEAD- SINGLE VOLTAGE		REF		
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	ML	.XXXX ±.0005	MAT'L.		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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	02-11-2005	CAD FILE ee7300bh	SIZE	DRAWING NO.	PAGE OF	REV.
				DIST	LB		A	EE7300BH		C

CERTIFICATION DATA SHEET

Model#: 449TSTDN16003 BB
CONN. DIAGRAM: A-EE7300BH
OUTLINE: B-SS516498-2938

WINDING#: T449279 R1 1
ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
400&350	300&260	3600	3578&2975	449TS	DP	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	450&470	PWS & YDRUN	CONTINUOUS	H1	1.15/1.15	40	3300

FULL LOAD EFF:	3/4 LOAD EFF:	1/2 LOAD EFF:	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
95.8&95.4	95.8	95	95	SQ CAGE IND RUN	153
FULL LOAD PF: 87&88	3/4 LOAD PF: 84	1/2 LOAD PF: 78			

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
587 LB-FT	3100	1040 LB-FT 157	1755 LB-FT 265	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	44.5 LB-FT^2	190 LB-FT^2	10 SEC.	1	2450 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6314						

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

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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: 06/21/2017 06:46:11 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 16-06-2017
Customer: _____
Attention: _____
Submitted by: FAREEDA DUDEKULA



449TSTDN16003

Submittal

Data @ **460 V**

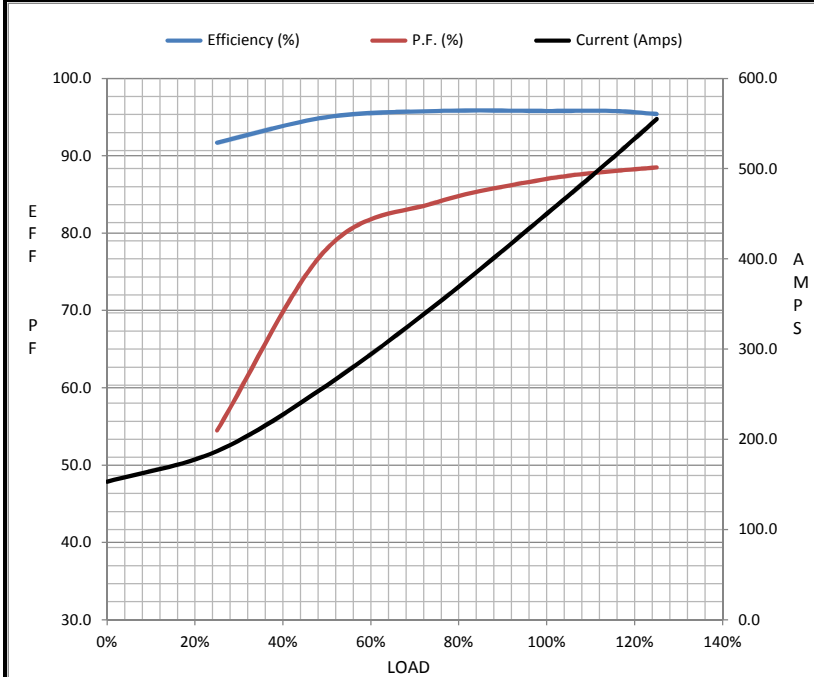
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	153	187	260	350	450	512	555	3,100
Torque (ft-lb)	0.00	146	293	440	587	676	736	1,040
RPM	3600	3595	3590	3582	3578	3,572	3570	0
Efficiency (%)		91.7	95.0	95.8	95.8	95.8	95.4	
P.F. (%)	4.5	54.5	78.0	84.0	87.0	88.0	88.5	27.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3435	3578	3600
Current (Amps)	3,100	2,835	1,880	450	153
Torque (ft-lb)	1,040	860	1,755	587	0.00

Information Block				
HP	400.0			
Sync. RPM	3600			
Frame	449			
Enclosure	DP			
Construction	TDN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	50 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	44.5 Lb-Ft ²			
Ref Wdg	T449279 R1			
Sound Pressure @ 1M	85 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS516498-2938			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0040	0.0560	0.0490	1.7820



Speed - Torque Curve

