

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 449TTDN16076
Catalog No: U275
200,1200,DP,449T,3/60/460
Open Drip Proof (ODP)



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REGAL[®]

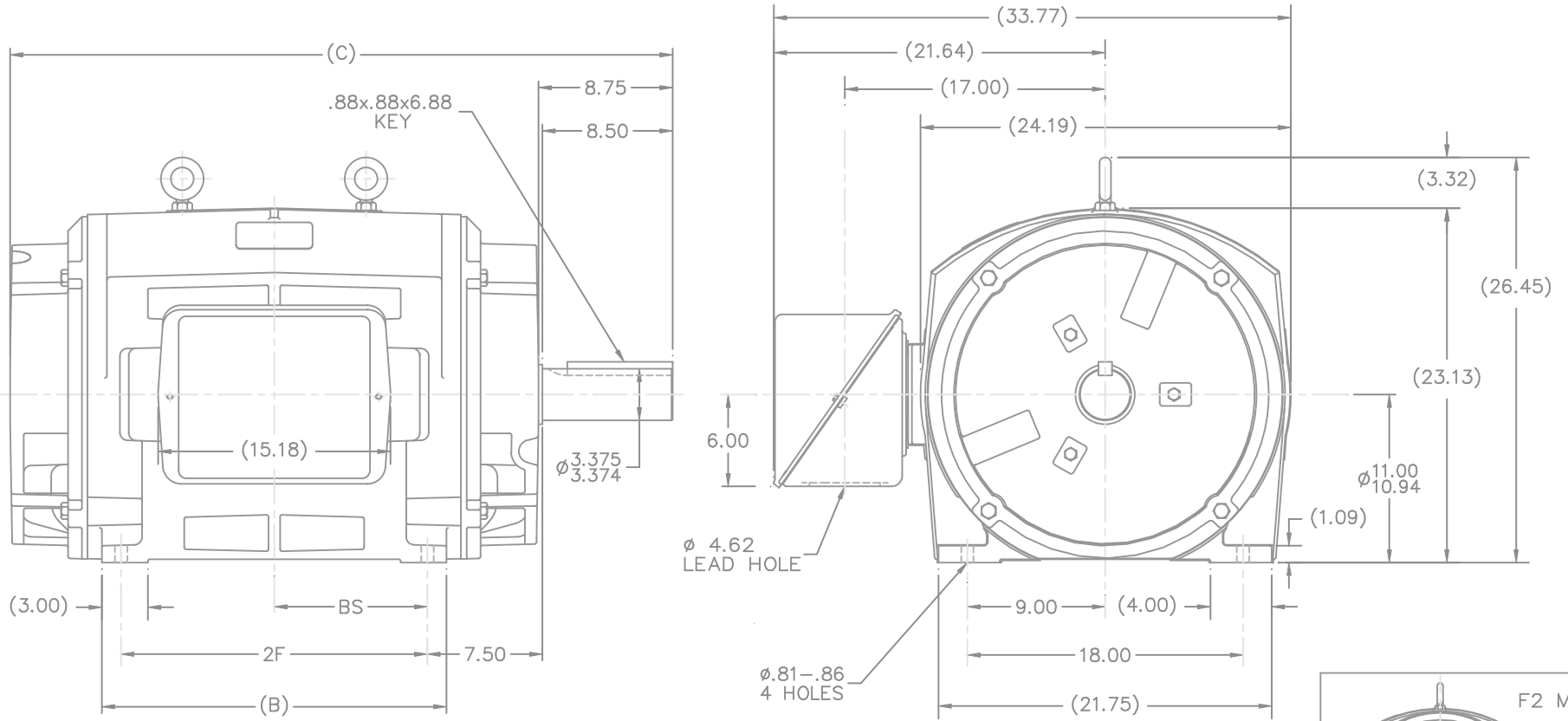


Nameplate Specifications

Output HP	200 Hp	Output KW	149.0 kW
Frequency	60 Hz	Voltage	460 V
Current	245.0 A	Speed	1188 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	449T
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6319
Opp Drive End Bearing Size	6318	UL	Recognized
CSA	Y	CE	Y
IP Code	12		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	48.25 in	Frame Length	29.38 in
Shaft Diameter	3.375 in	Shaft Extension	8.75 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	B-SS514252-2938	Connection Diagram	A-EE7300CB



NOTES:

1. C.BOX CAN BE ROTATED IN 90° STEPS.
2. C.BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS & TURNING FRAME 180°.
3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

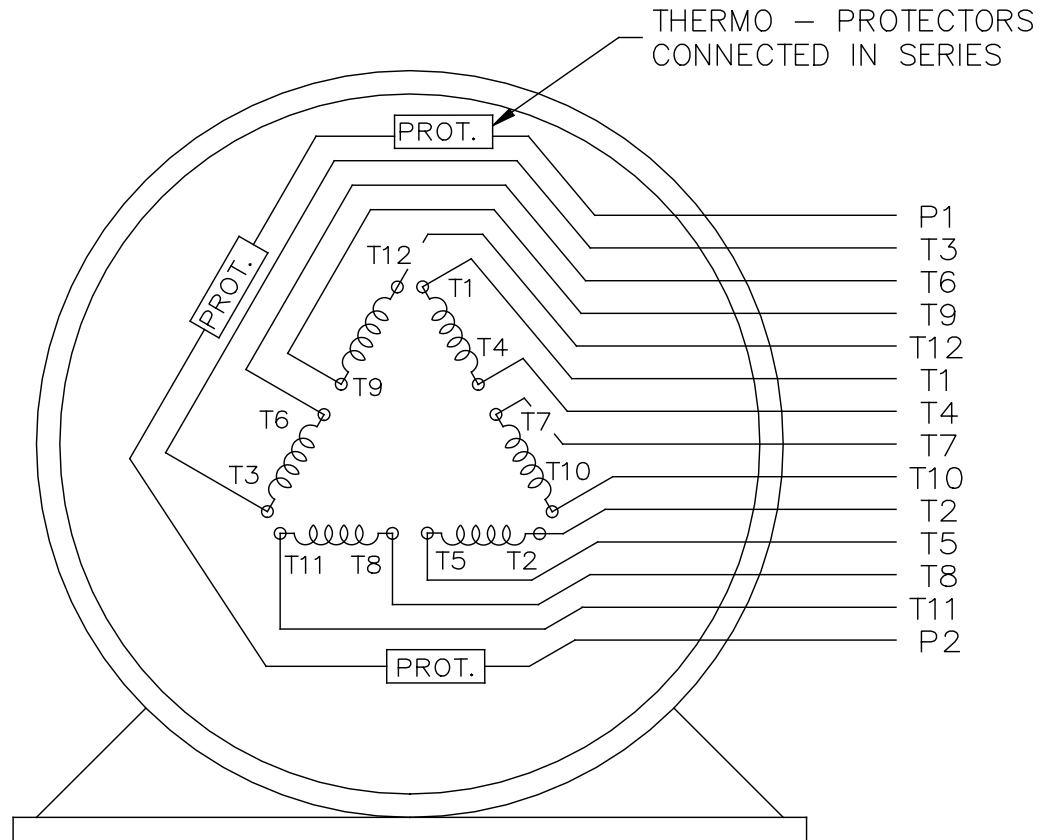
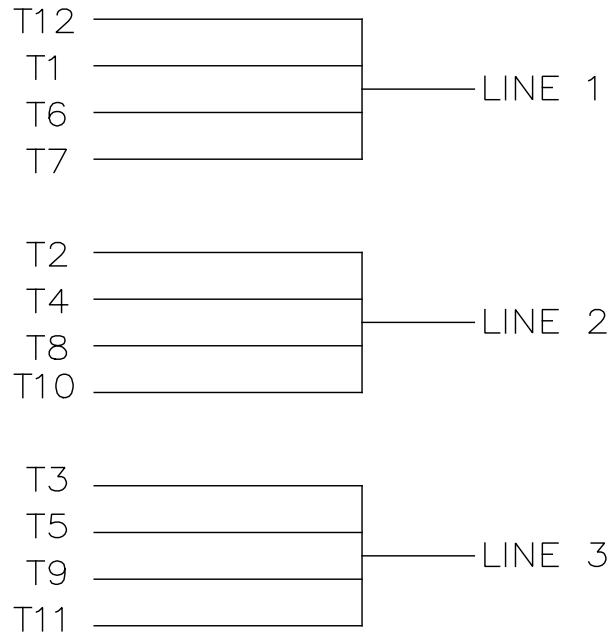
2438	447T	43.25	---	22.50	20.00	---	---	10.00
2938	449T	48.25	---	27.50	25.00	---	---	12.50
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS

7	UPDATED DE BRACKET GEOMETRY	CN 35521	DRS		TO TOLERANCES UNLESS SPECIFIED					
6	ADDED F2 MOUNTING VIEW	CN 29200-263	DRS	03-24-2000	DEC.	INCHES				
5	ADDED OVERALL DIMENSIONS	CN 27400-627	BJW	01-17-2000	.X	±.1				
4	REVISED TO NEC CONDUIT BOX	CN 28405	BJW		.XX	±.03				
3	REMOVED 700 CU.IN. C'BOX NOTE	CN 16342	KL	10-07-1993	.XXX	±.005				
2	'C' DIM. WAS 43.19 & 48.19	CN 15854	JL	06-09-1993	.XXXX	±.0005				
NO.	REVISION		BY & DATE		CHK	ANG	±7'30"			
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					
					DIST	WA-SB				
								CAD FILE	SS514252	
								SIZE	B	
								DRAWING NO.	SS514252	
								PAGE	OF	7
								REV.		



TITLE OUTLINE - DR.PR.
447-449T FR.

DRAWN	JL	06-23-1992
CHK	TB	06-23-1992
APPD	JPN	07-10-1992
SCALE		1=7
REF		
FMF		
PREV		



VIEW OF TERMINAL END

		TOLERANCES UNLESS SPECIFIED		REGAL REGAL - BELOIT CORPORATION		DRAWN KL 02-27-2003					
		DEC.	INCHES			CHK	GFH 03-03-2003				
		.X	± -			APPD	JES 03-03-2003				
		.XX	± -	TITLE CONNECTION DIAGRAM - EXTERNAL		SCALE	1=1				
		.XXX	± -	12 LEAD SINGLE VOLTAGE		REF					
A	CHANGED TO REGAL TITLEBLOCK ECO-0108299	WGJ	08-18-2016	EMH	.XXXX	MAT'L.	FMF				
NO.	REVISION	BY & DATE	CHK	ANG	± -	FINISH	PREV				
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				DIST			A	EE7300CB			

CERTIFICATION DATA SHEET

Model#: 449TTDN16076 AA **WINDING#:** T447617 NONE 2
CONN. DIAGRAM: A-EE7300CB **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: B-SS514252-2938

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
200&150	149&112	1200	1188&988	449T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	245&225	PWS & YDRUN OR INV	CONTINUOU S	F1	1.15/1.0	40	3300

FULL LOAD EFF: 95.4&95	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80&79	3/4 LOAD PF: 76	1/2 LOAD PF: 67	94.5	SQ CAGE INV RATED	97

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
885 LB-FT	1400	1475 LB-FT 167	2000 LB-FT 225	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
76 dBA	86 dBA	84 LB-FT^2	2600 LB-FT^2	20 SEC.	2	2150 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 6319	BALL 6318	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	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: 06/21/2017 07:02:13 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/19/2017

449T1DN16076

Customer:



Submital

Attention:

FAREEDA DUDEKULA

Data @ 460 V

Submitted by:

Motor Load Data

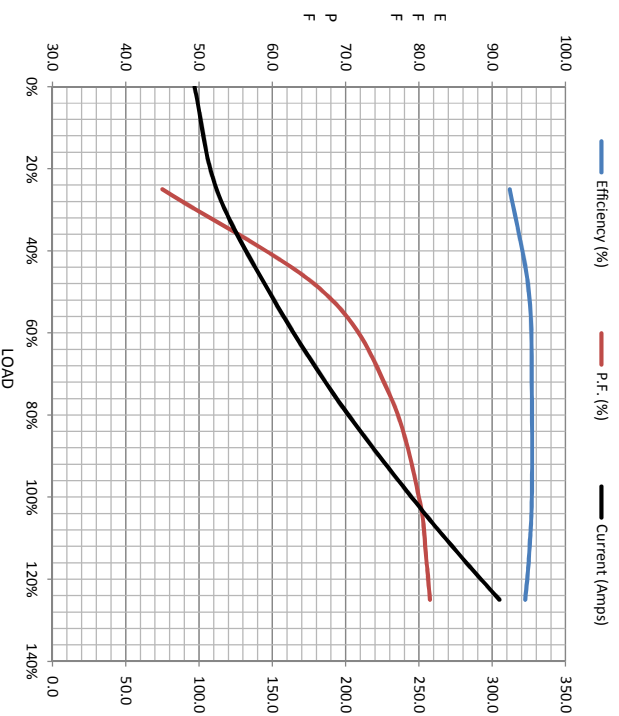
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	97.0	112	148	192	245	280	305	1,400
Torque (ft-lb)	0.00	220	440	662	885	1,020	1,110	1,475
RPM	1200	1196	1194	1194	1188	1,185	1182	0
Efficiency (%)		92.4	95.0	95.4	95.4	95.0	94.5	
P.F. (%)	3.0	45.0	67.0	76.0	80.0	81.0	81.5	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (rpm)	0	600	1150	1188	1200
Current (Amps)	1,400	1,250	750	245	97.0
Torque (ft-lb)	1,475	1,300	2,000	885	0.00

Information Block

HP	200.0			
Sync. RPM	1200			
Frame	447			
Enclosure	DP			
Construction	TDN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wkt	84.0 Lb-Fe			
Rel Wdg	T447617 NONE			
Sound Pressure @ 1M	76 dbA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS514252-2938			
Conn. Diag	A-EET300CB			
Additional Specifications:				
0				
EQUIV CKT (OHMS/PHASE)				
R1	R2	X1	X2	Xm
0.0160	0.0120	0.1210	0.1870	2.2070



Speed -Torque Curve

