

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 143TTDR6030
Catalog No: GT0401
1,1800,DP,143JM,3/60/230/460
JM



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REGAL

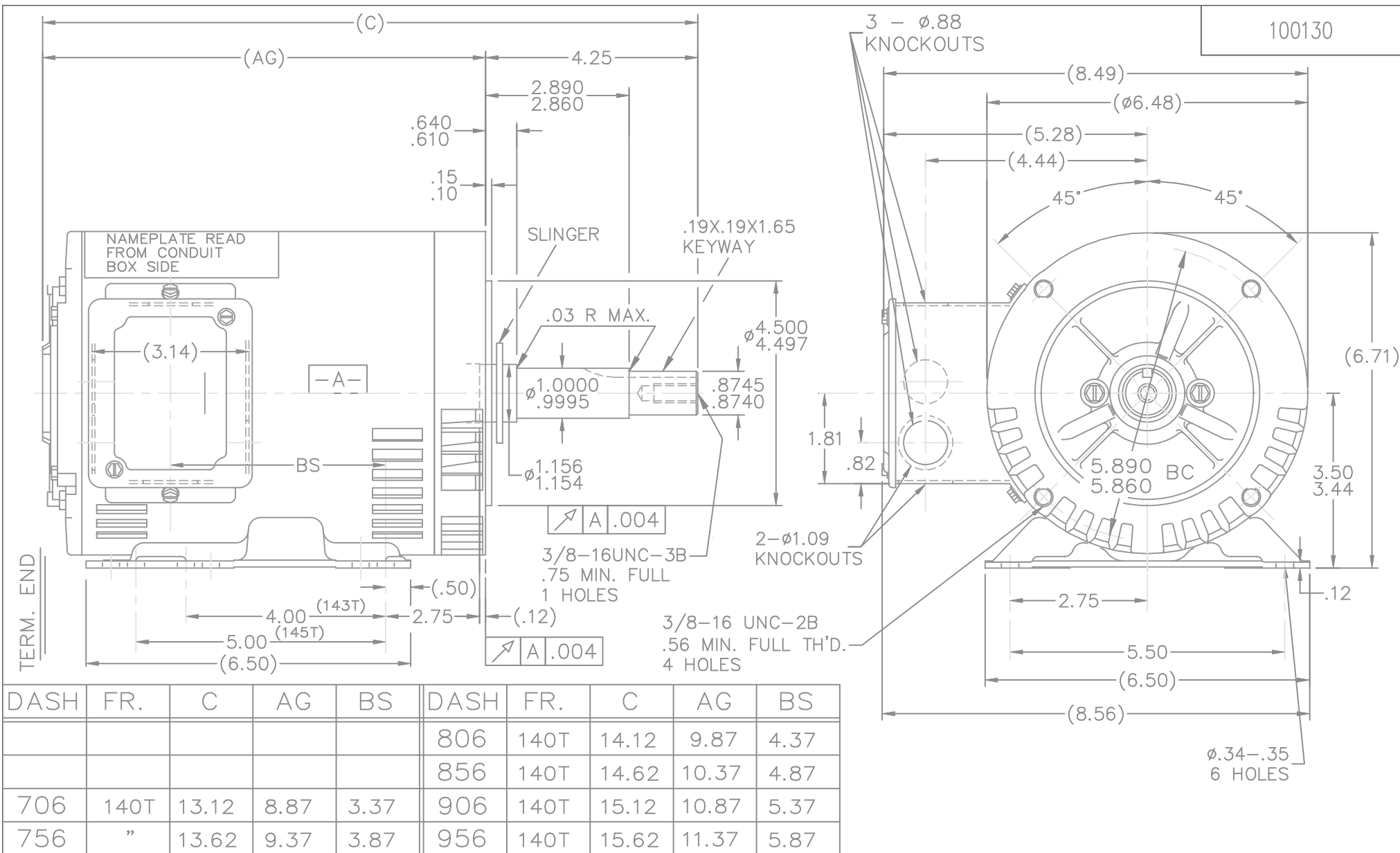


Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/460 V
Current	3/1.5 A	Speed	1760 rpm
Service Factor	1.15	Phase	3
Efficiency	85.5 %	Duty	CONTINUOUS
Insulation Class	F	Design Code	B
KVA Code	N	Frame	143JM
Enclosure	DP	Overload Protector	NOT
Ambient Temperature	40 °C	Drive End Bearing Size	6206
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

Technical Specifications

Electrical Type	SQ CAGE INV RATED	Starting Method	LINE OR INVERTER
Poles	4	Rotation	REV
Mounting	RIGID	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	ROLLED STEEL	Shaft Type	JM
Overall Length	15.12 in	Frame Length	9.06 in
Shaft Diameter	0.88 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	100130-906	Connection Diagram	EE7308



			TOLERANCES UNLESS SPECIFIED				DRAWN SMC 09-30-1999						
			ML	DEC.	INCHES		CHK ET 01-24-1999						
5	UPDATED DRAWING		RJW 03-28-2007				APPD ML 01-24-1999						
4	REMOVED THE DASH VALUE 656. ECN:9600		NB 11-20-2006	.X	±.1		SCALE 3=8						
3	REDRAWN IN AUTOCAD		TAT 07-06-2004	ML	.XX ±.03		REF						
2	ADDED PACKAGING DIMS. CN 27400-456		09-30-1999		.XXX ±.005	FMF							
1	REDRAWN ON CADD, ADDED DASH 956 3877534		SMC 01-23-1992		.XXXX ±.0005	PREV							
NO.	REVISION		BY & DATE	CHK	ANG	±7'30"	FINISH						
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			CAD FILE 100130		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST WP					A	100130		5	



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		DRAWN RM	11/20/1990
					DEC.	INCHES		
5	CHG TO REGAL LOGO	SL 09/10/2015	AB				CHK	ML 11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD	SAS 04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FMF	
					±7'30"		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	CAD FILE ee7308		SIZE	DRAWING NO. PAGE OF REV.
				DIST WP			A	EE7308 5

CERTIFICATION DATA SHEET

Model#: 143TTDR6030 AA **WINDING#:** ZT4259 NONE 3
CONN. DIAGRAM: EE7308 **ASSEMBLY:** F1 ONLY
OUTLINE: 100130-906

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1&3/4	.75&.56	1800	1760&1460	143JM	DP	N	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	3/1.5&3/1.5	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.0	40	3300

FULL LOAD EFF: 85.5&85.3	3/4 LOAD EFF: 84.6	1/2 LOAD EFF: 81.3	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 71&69.3	3/4 LOAD PF: 62.6	1/2 LOAD PF: 49.8	82.5	SQ CAGE INV RATED	2 / 1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	29 / 14.5	11.2 LB-FT 373	15.4 LB-FT 513	21

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	0.117 LB-FT^2	10 LB-FT^2	20 SEC.	2	0 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	FALSE	NONE	FALSE	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6206	6203	POLYREX EM	JM	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL

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: CONSTANT 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		

DATE: 06/22/2017 07:42:58 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

143TDR6030

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA



Submital

Data @ 460 V

Submitted by:

FAREEDA DUDEKULA

Motor Load Data

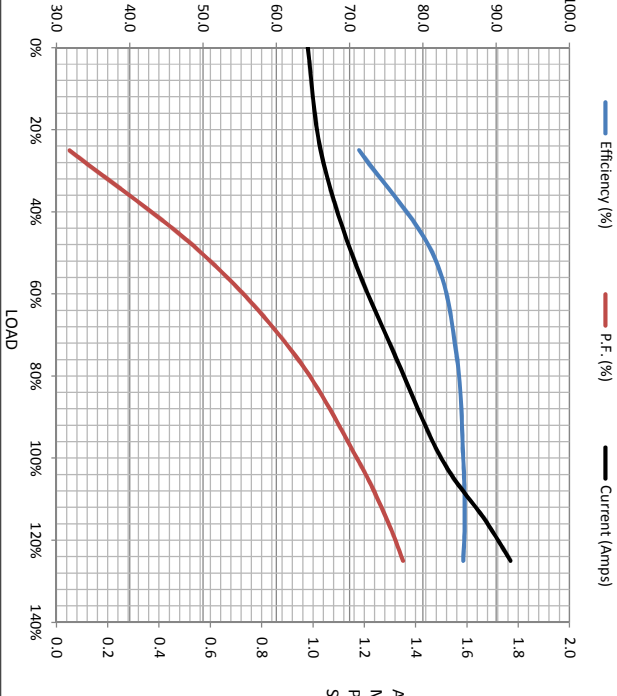
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.96	1.03	1.15	1.32	1.50	1.67	1.77	14.5
Torque (ft-lb)	0.00	0.73	1.47	2.22	3.0	3.4	3.7	11.2
RPM	1800	1790	1781	1772	1760	1755	1751	0
Efficiency (%)		71.3	81.3	84.6	85.5	85.7	85.5	
P.F. (%)	11.1	31.8	49.8	62.6	71.0	75.1	77.3	73.4

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	120	1285	1760	1800
Current (Amps)	14.5	13.0	9.8	1.50	0.98
Torque (ft-lb)	11.2	10.0	15.4	3.0	0.00

Information Block

HP	1.0
Sync. RPM	1800
Frame	143
Enclosure	DP
Construction	TDR
Voltage	30/460#190/38 V
Frequency	60 Hz
Design	A
LR Code letter	N
Service Factor	1.15
Temp Rise @ FL	21 °C
Duty	CONT
Ambient	40 °C
Elevation	1,000 feet
Rotor/Shaft wkt	0.12 Lb-Fe
Ref Wdg	Z14259 NONE
Sound Pressure @ 1M	56 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	100130-906
Conn. Diag	EE7308
Additional Specifications:	
0	
0	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.0000	0.0000
X1	X2
0.0000	0.0000
Xm	
0.0000	



Speed -Torque Curve

