

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTDWD16349

Catalog No: U429A

General Purpose Motors, Drip Proof, 7.5 HP, 3 Ph, 60 Hz, 200-208 V, 1765 RPM, 213T

General Purpose Motors



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RegalRexnord

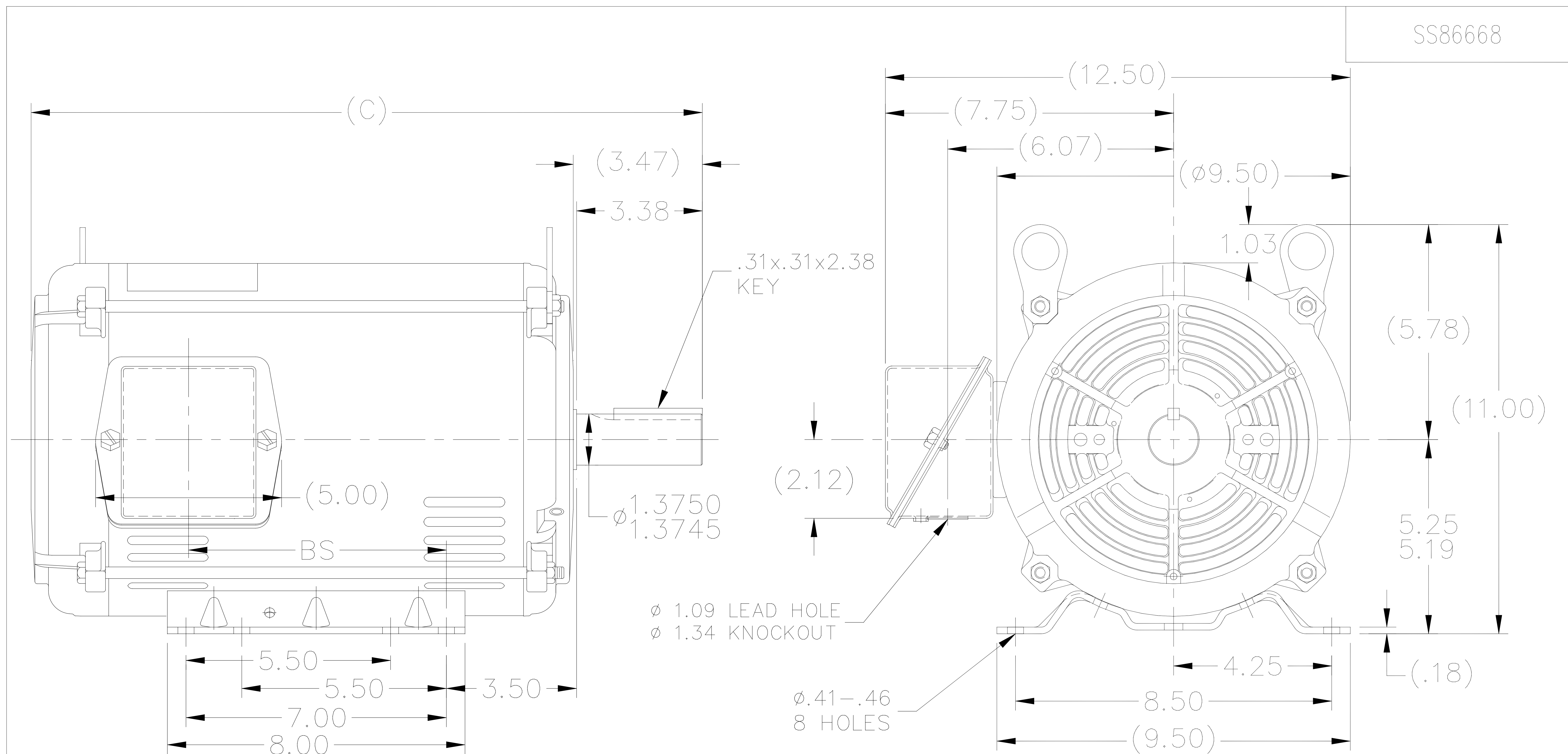
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	200-208 V
Current	22.4-22.1 A	Speed	1765 rpm
Service Factor	1.15	Phase	3
Efficiency	91 %	Power Factor	77.1
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	213T	Enclosure	Drip Proof
Thermal Protection	Automatic	Ambient Temperature	40 °C
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	1.56 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS86668-1115	Connection Drawing	EE7335A

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SS86668

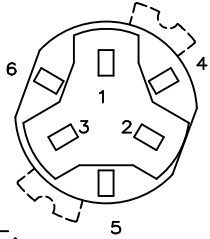
DASH	FR.	C	BS	MOUNTING
965	213T	16.54	5.43	
1115	213/15T	18.04	6.93	
1240	213/15T	19.29	8.18	F1 ONLY
1545	215T	22.34	11.23	F1 ONLY

- NOTES:
1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
 2. BOX CAN BE MOUNTED IN 90° STEPS.
 3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. (EXCEPT AS NOTED.)

06-22-2004

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.		DRAWN MRB 04-03-1997			
				DEC.	INCHES			CHK	ML	04-04-1997	
				.X	±.1			APPD	GK	04-04-1997	
3	TITLE BLOCK CHANGE PER ECO-0078542		MDV 06/09/2015	.XX	±.03	TITLE OUTLINE 210T FR. — BB — TS — DR.PR.			SCALE 1=4		
2	UPDATED C'BOX GEOMETRY CN 28425		BJW 03-24-2000	.XXX	±.005				REF		
1	NEW DRAWING		MRB 04-04-1997	.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		CAD FILE SS86668		SIZE A	DRAWING NO. PAGE OF		REV.
				DIST LB					SS86668		3

SINGLE VOLTAGE – THREE PHASE WITH OVERLOAD PROTECTOR

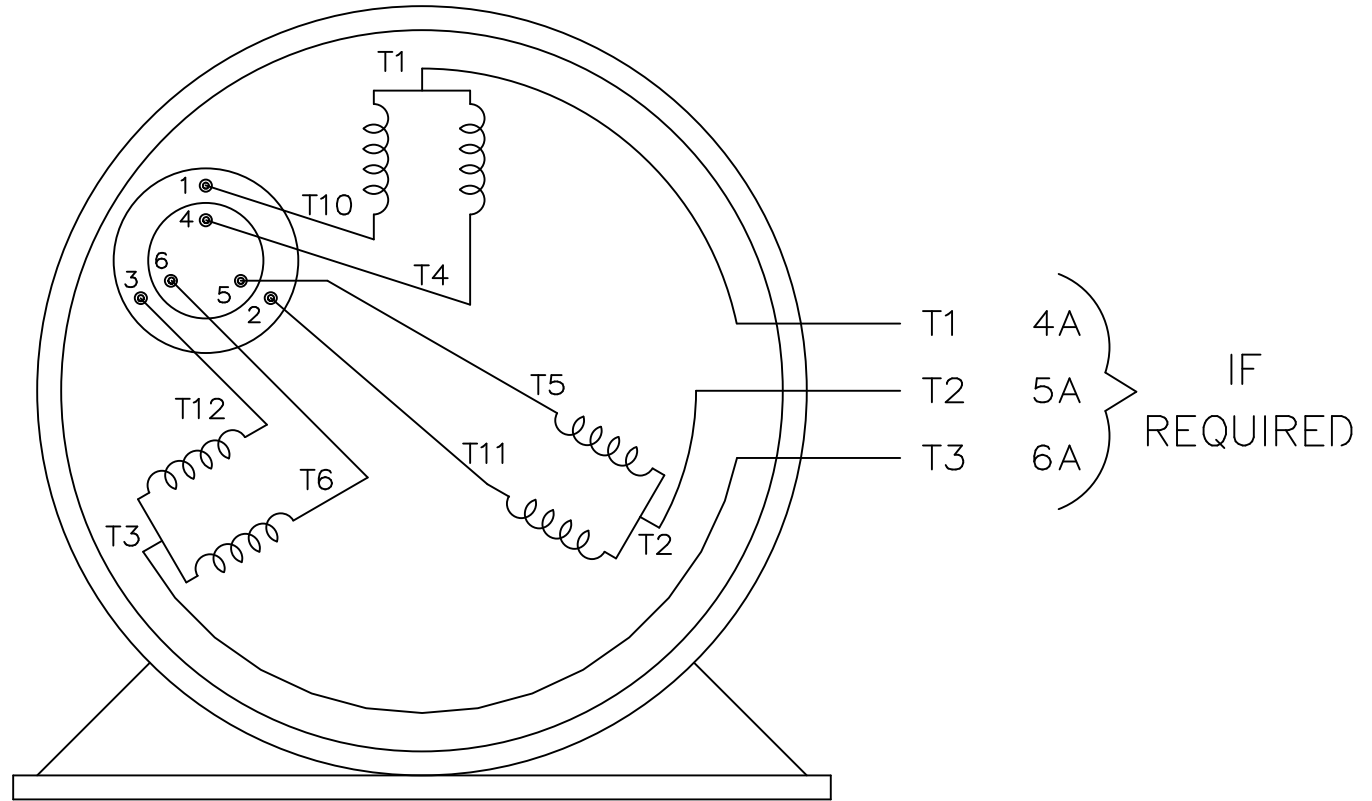


NOTE:
ACTUAL PROTECTORS
TERMINAL LOCATIONS
FOR LEAD CONNECTIONS

NOTE:

WEST PLAINS

LEADS WITH TERMINALS
SHOULD BE CONNECTED
TO INBOARD SIDE OF
TERMINAL BOARD.



TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS.

VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED			DRAWN DA 03-26-1993		
			DEC.	INCHES		CHK ML 03-26-1993		
8	ADDED 4A, 5A & 6A "IF REQUIRED" MU80422	RJW 07-10-2007	ML	.X	± -	TITLE CONNECTION DIAGRAM SINGLE VOLT – 3Ø W/OVERLOAD PROT. MAT'L. FINISH	APPD GK 03-26-1993	SCALE 1=1
7	ADDED TERM. BOARD CONNECTION NOTE CN 19219	SMC 10-13-1994		.XX	± -			REF
6	ADDED ACTUAL PROTECTOR VIEW CN 17481	KL 05-18-1994		.XXX	± -			FMF
5	REDRAWN – NO CHANGE	DA 03-29-1993		.XXXX	± -			PREV
NO.	REVISION	BY & DATE	CHK	ANG	± -			
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 ee7335a		SIZE A	DRAWING NO. EE7335A	PAGE OF 8
			DIST LB-WP					



**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

CERTIFICATION DATA SHEET**CUSTOMER:****ORDER #:****CONN. DIAGRAM:** EE7335A**OUTLINE:** SS86668-1115**WINDING #:** K2134278 7**CUSTOMER PO#:****MODEL #:** 213TTDWD16349 AA**CUSTOMER PART #:****MOUNTING:** F1/F2 CAPABLE**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.60	1800	1765	213T	DP	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	200-208	22.4-22.1	ACROSS THE LINE	CONTINUOUS	F4	1.15	40

FULL LOAD EFF: 91	3/4 LOAD EFF: 91	1/2 LOAD EFF: 89.9	GTD. EFF	ELEC. TYPE
FULL LOAD PF: 77.1	3/4 LOAD PF: 71.3	1/2 LOAD PF: 58.1	89.5	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.3 LB-FT	134.9	45.3 LB-FT 203 %	66.1 LB-FT 296 %	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
66 dBA	76 dBA	0.85 LB-FT^2	50 LB-FT^2	20 SEC.	2	125 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	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6307	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	AUTOMATIC	NONE	NONE	NONE	FALSE	NONE VOLTS

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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

PREPARED BY: Dinesh**Suddula DATE:**

02/14/2019 02:07:25 AM

FORM 3531 REV.3 02/07/99

** Subject to change without
notice.

Data Sheet

Date: 1/4/2019

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA



213TTDWD16349

Submittal

Data @ 208 V

Motor Load Data

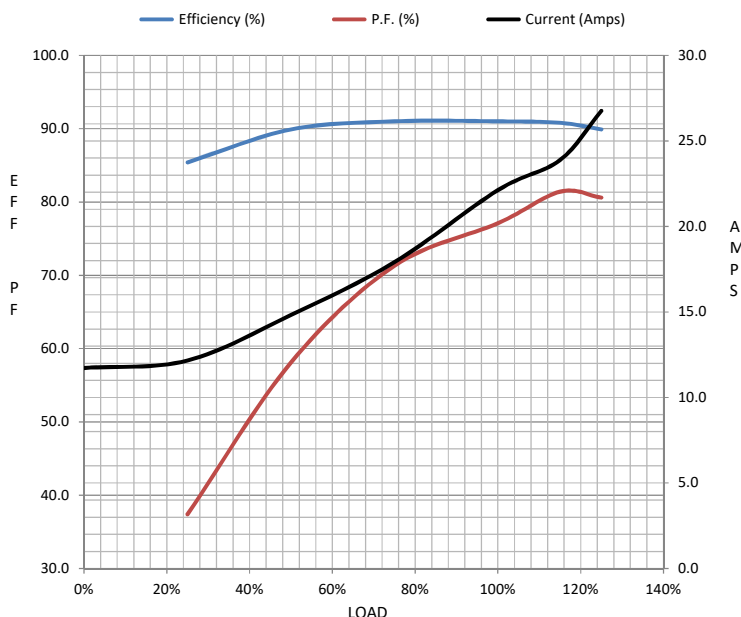
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	11.7	12.2	14.8	17.9	22.1	23.9	26.8	135	
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.3	25.5	28.0	45.3	
RPM	1800	1792	1784	1775	1765	1755	1748	0	
Efficiency (%)		85.4	89.9	91.0	91.0	90.8	89.9		
P.F. (%)	5.2	37.4	58.1	71.3	77.1	81.4	80.6	44.8	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	700	1575	1765	1800
Current (Amps)	135	122	81.8	22.1	11.7
Torque (ft-lb)	45.3	40.0	66.1	22.3	0.00

Information Block

HP	7.5
Sync. RPM	1800
Frame	213
Enclosure	DP
Construction	TDW
Voltage	200-208 V
Frequency	60 Hz
Design	B
LR Code letter	H
Service Factor	1.15
Temp Rise @ FL	35 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk ²	0.85 Lb-Ft ²
Ref Wdg	K2134278 NONE
Sound Pressure @ 1M	66 dBA
VFD Rating	NONE
Outline Dwg	SS86668
Conn. Diag	EE7335A



Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.1550	0.1140	0.5330	0.7560	11.7480

Speed - Torque Curve

