



Product Information Packet

VEM3774T

10HP,1765RPM,3PH,60HZ,215TC,0748M,TEFC,F

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	07WGT511	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	07G082	Layout:	07LYG082	Poles:	04	Created Date:	02-08-2021
Base:	N	Eff. Date:	09-07-2022	Leads:	9#14		

Specs			
Catalog Number:	VEM3774T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	215TC	Inverter Code:	Inverter Ready
Frame Material:	Iron	KVA Code:	H
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	10.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	0748M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	83
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	12.300 A @ 460.0 V	Shaft Rotation:	Reversible
	24.600 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
	27.000 A @ 208.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP3441LUA

CAT.NO.	VEM3774T										
SPEC	07G082T511G1										
HP	10										
VOLTS	230/460										
AMPS	24.6/12.3										
RPM	1765										
FRAME	215TC				HZ	60				PH	3
SF	1.15		CODE	H	DES	B		CLASS	F		
NEMA NOM. EFF	91.7			PF	83						
RATING	40C AMB-CONT										
CC	010A			USABLE AT 208V				27			
ENCL	TEFC		SER								
DE	6307			ODE	6206						
VPWM INVERTER READY	SFA 28.2/14.1										
CT6-60H(10:1)VT3-60H(20:1											
	50HZ 10HP 190/380V 29.8/14.9A										

AC Induction Motor Performance Data

Record # 85502

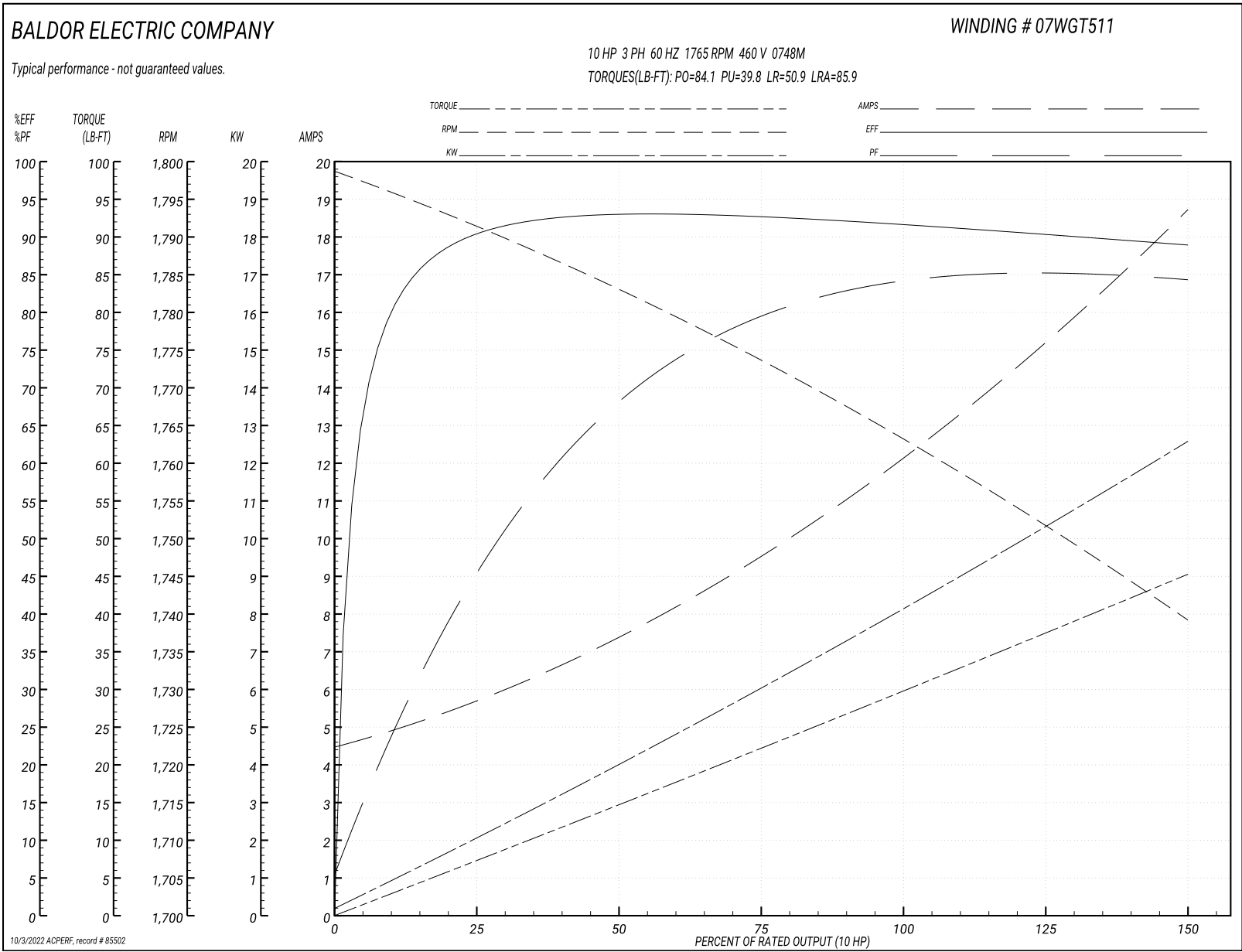
Preliminary Data Sheet

Winding: 07WGT511-R001				Type: 0748M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		10		Full Load Torque		29.8 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		24.6/12.3		Breakdown Torque		84.1 LB-FT			
R.P.M.		1765		Pull-up Torque		39.8 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque		50.9 LB-FT	
NEMA Design Code		B		KVA Code		H		Starting Current	85.9 A
Service Factor (S.F.)		1.15						No-load Current	4.67 A
NEMA Nom. Eff.		91.7		Power Factor		83		Line-line Res. @ 25°C	1.11 Ω
Rating - Duty		40C AMB-CONT						Temp. Rise @ Rated Load	70°C
S.F. Amps		28.3/14.15						Temp. Rise @ S.F. Load	93°C
								Locked-rotor Power Factor	40.4
								Rotor inertia	1.18 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	79	83	85	85	84
Efficiency	89.8	92.6	92.6	91.7	90.4	88.8	90.7
Speed	1791	1783	1774	1763	1752	1739	1753
Line amperes	5.44	7.24	9.6	12.3	15.3	18.6	14.1

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 88389

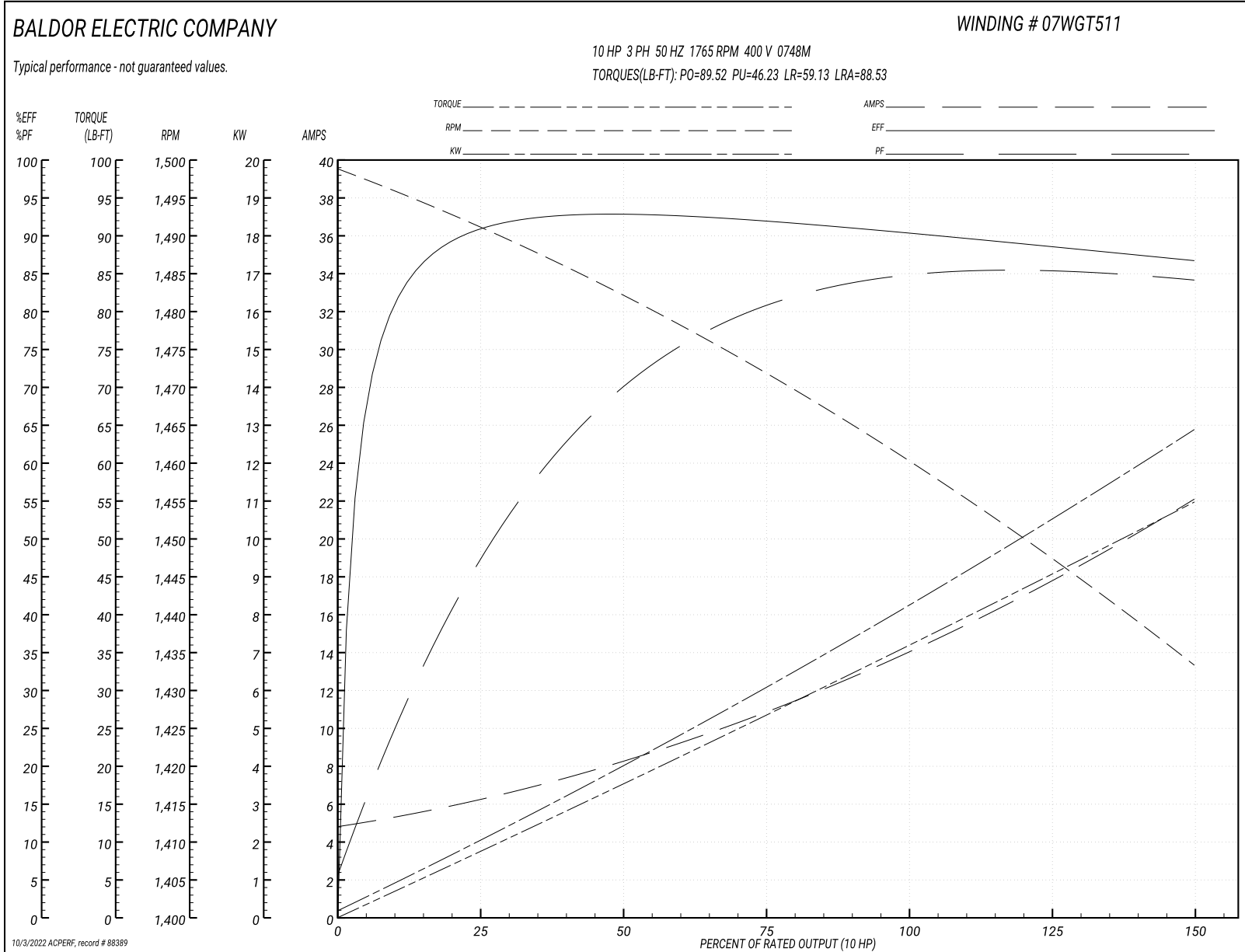
Typical performance - not guaranteed values

Winding: 07WGT511-R001				Type: 0748M		Enclosure: TEFC			
Nameplate Data				400 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		10		Full Load Torque		35.99 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		24.6/12.3		Breakdown Torque		89.52 LB-FT			
R.P.M.		1765		Pull-up Torque		46.23 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque		59.13 LB-FT	
NEMA Design Code		B		KVA Code		H		Starting Current	88.53 A
Service Factor (S.F.)		1.15						No-load Current	5.03 A
NEMA Nom. Eff.		91.7		Power Factor		83		Line-line Res. @ 25°C	1.09 Ω
Rating - Duty		40C		AMB-CONT				Temp. Rise @ Rated Load	91°C
S.F. Amps								Temp. Rise @ S.F. Load	117°C
								Locked-rotor Power Factor	35.2
								Rotor inertia	1.18 lb-ft²

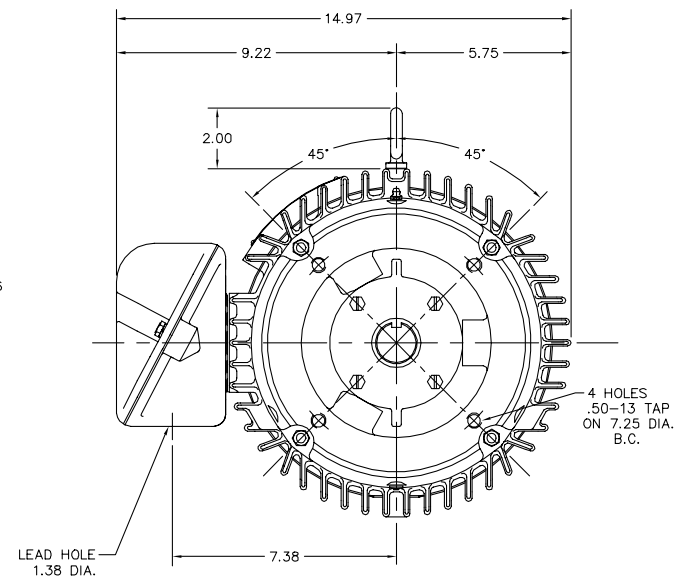
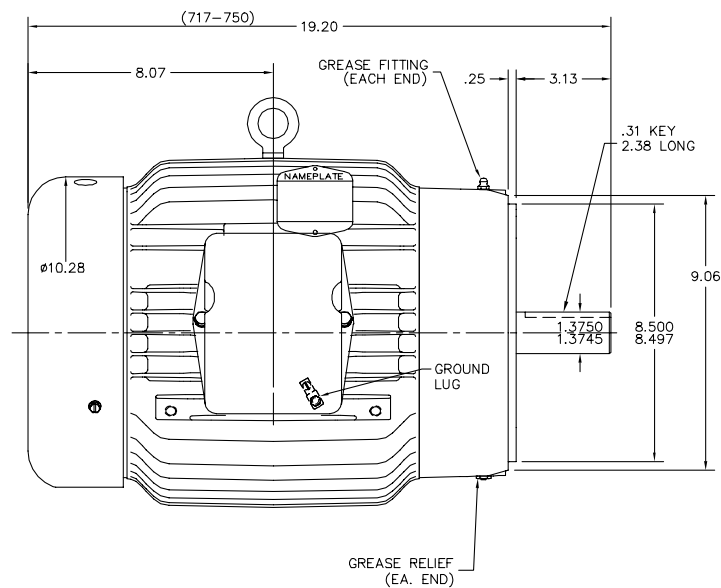
Load Characteristics 400 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	71	80	84	85	85	85
Efficiency	90	92.4	91.9	90.4	88.9	86.5	89.5
Speed	1491	1482	1472	1460	1448	1433	1453
Line amperes	5.96	8.13	10.95	14.22	17.88	21.98	16.4

Performance Graph at 400V, 50Hz, 10.0HP Typical performance - Not guaranteed values



07LYG082



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REMOVE LB1086

REV. LTR: G

VERSION: 02

TDR: 000000B04114

FILE: \AAA\00011\486

REVISED: 12:31:59 06/18/2013

BY: ENROSB0

MTL: -

BALDOR

VERT TEFC 307M 213-5TC, HI-EFF

SH 1 of 1

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