



Product Information Packet

EM3704T

3HP,1160RPM,3PH,60HZ,213T,3738M,TEFC,F1

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS519	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37H244	Layout:	37LYH244	Poles:	06	Created Date:	04-11-2008
Base:	RG	Eff. Date:	08-15-2022	Leads:	9#14		

Specs			
Catalog Number:	EM3704T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	213T	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	L
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	3.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1200 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:	3738M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	68
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT

Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	9.600 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	9.200 A @ 230.0 V	Shaft Rotation:	Reversible
	4.600 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3441LUA

CAT.NO.	EM3704T										
SPEC	37H244S519G1										
HP	3										
VOLTS	230/460										
AMPS	9.2/4.6										
RPM	1160										
FRAME	213T				HZ		60			PH	3
SF	1.15			CODE	L	DES		B	CLASS	F	
NEMA NOM. EFF	89.5				PF	68					
RATING	40C AMB-CONT										
CC	010A				USABLE AT 208V					9.6	
ENCL	TEFC			SER							
DE	6307				ODE		6206				
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
	50Hz 3HP 190/380V 10.6/5.3A										

AC Induction Motor Performance Data

Record # 53388

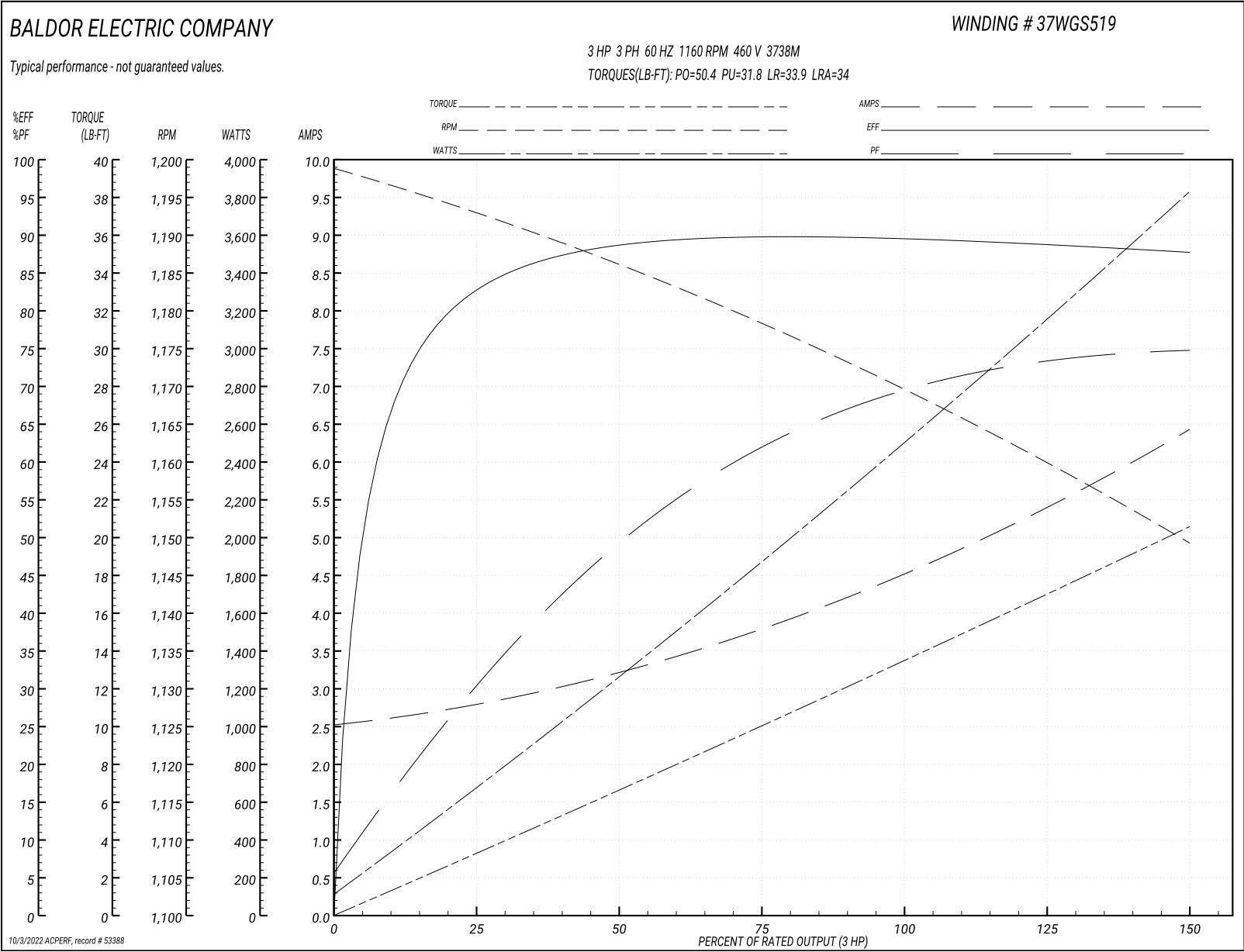
Typical performance - not guaranteed values

Winding: 37WGS519-R032			Type: 3738M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		3	Full Load Torque		13.4 LB-FT
Volts		230/460	Start Configuration		direct on line
Full Load Amps		9.2/4.6	Breakdown Torque		50.4 LB-FT
R.P.M.		1160	Pull-up Torque		31.8 LB-FT
Hz	60 Phase	3	Locked-rotor Torque		33.9 LB-FT
NEMA Design Code		B KVA Code	Starting Current		34 A
Service Factor (S.F.)		1.15	No-load Current		2.56 A
NEMA Nom. Eff.		89.5 Power Factor	Line-line Res. @ 25°C		2.67 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		38°C
S.F. Amps			Temp. Rise @ S.F. Load		45°C
			Locked-rotor Power Factor		22.9
			Rotor inertia		0.945 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 60478

Typical performance - not guaranteed values

Winding: 37WGS519-R032			Type: 3738M		Enclosure: TEFC		
Nameplate Data			208 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		3	Full Load Torque		13.5 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		9.5-9.2/4.6	Breakdown Torque		41 LB-FT		
R.P.M.		1160	Pull-up Torque		25.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		27.3 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		61 A
Service Factor (S.F.)		1.15	No-load Current		4.52 A		
NEMA Nom. Eff.		89.5	Power Factor	68	Line-line Res. @ 25°C		0.668 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		39°C
S.F. Amps					Temp. Rise @ S.F. Load		49°C
					Locked-rotor Power Factor		22.9
					Rotor inertia		0.945 LB-FT2

Load Characteristics 208 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	57	68	73	76	76	75
Efficiency	84.3	89.5	90.1	89.6	88	86.1	88.6
Speed	1192	1183	1173	1163	1150	1134	1155
Line amperes	4.98	6.11	7.69	9.46	11.7	14.3	10.8

Performance Graph at 208V, 60Hz, 3.0HP Typical performance - Not guaranteed values

