



Product Information Packet

EM3770T

7.5HP,1770RPM,3PH,60HZ,213T,0738M,TEFC,F

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	07WGT510	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	07H002	Layout:	07LYH002	Poles:	04	Created Date:	11-11-2020
Base:	RG	Eff. Date:	02-21-2022	Leads:	9#14		

Specs			
Catalog Number:	EM3770T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	213T	Inverter Code:	Inverter Ready
Frame Material:	Iron	KVA Code:	J
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	7.500 HP @ 60 HZ	Locked Bearing Indicator:	No 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:	0738M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	81
	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:	9.500 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	20.000 A @ 208.0 V	Shaft Rotation:	Reversible
	19.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	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.	EM3770T										
SPEC	07H002T510										
HP	7.5										
VOLTS	230/460										
AMPS	19/9.5										
RPM	1770										
FRAME	213T				HZ		60		PH	3	
SF	1.15		CODE	J	DES		A	CLASS	F		
NEMA NOM. EFF	91.7			PF	81						
RATING	40C AMB-CONT										
CC	010A			USABLE AT 208V				20			
ENCL	TEFC		SER								
DE	6307			ODE	6206						
VPWM INVERTER READY	SFA 21.4/10.7										
CT6-60H(10:1)VT3-60H(20:1	50HZ 7.5HP 190/380V 22.4/11.2A										
	SF1.0										

AC Induction Motor Performance Data

Record # 85534

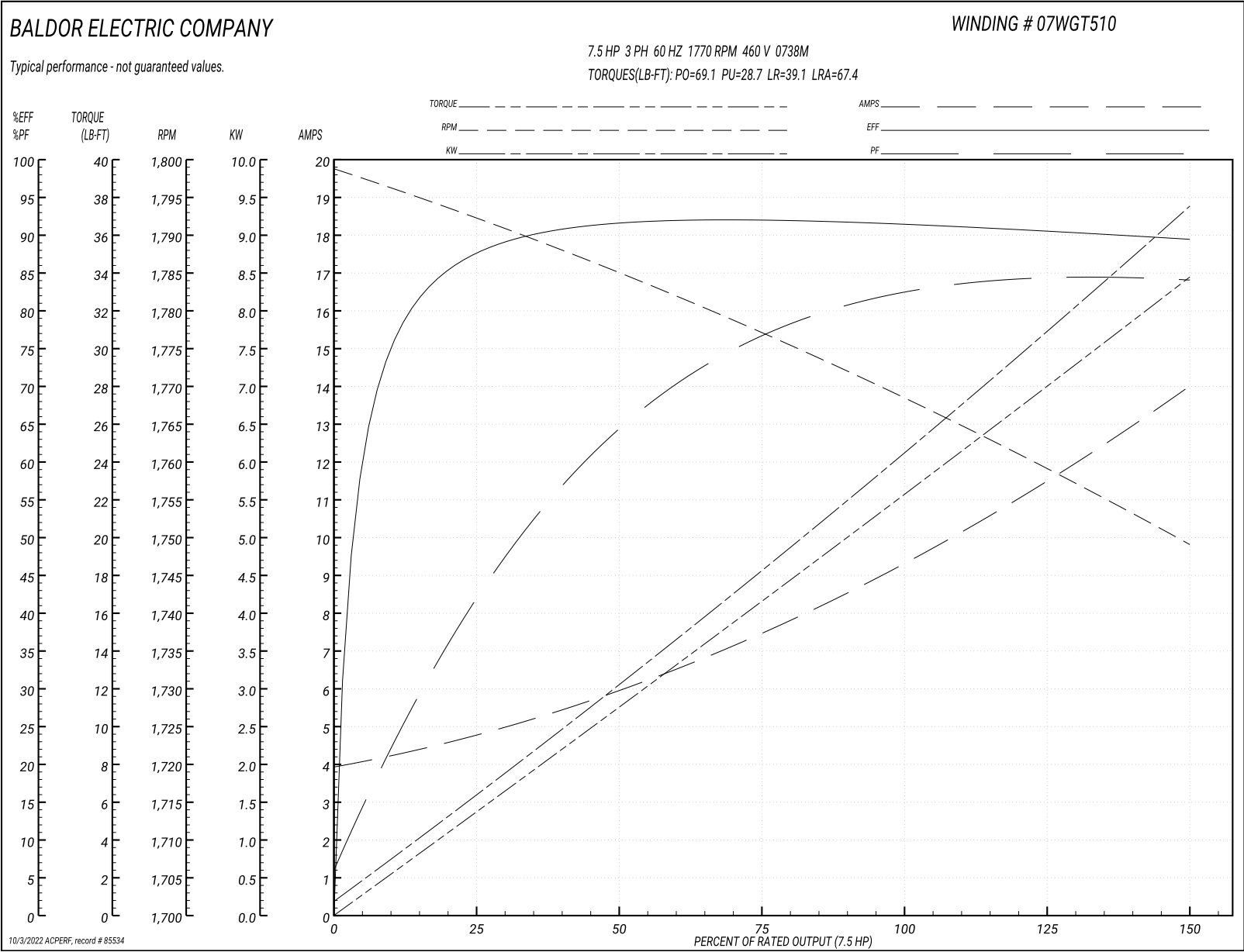
Preliminary Data Sheet

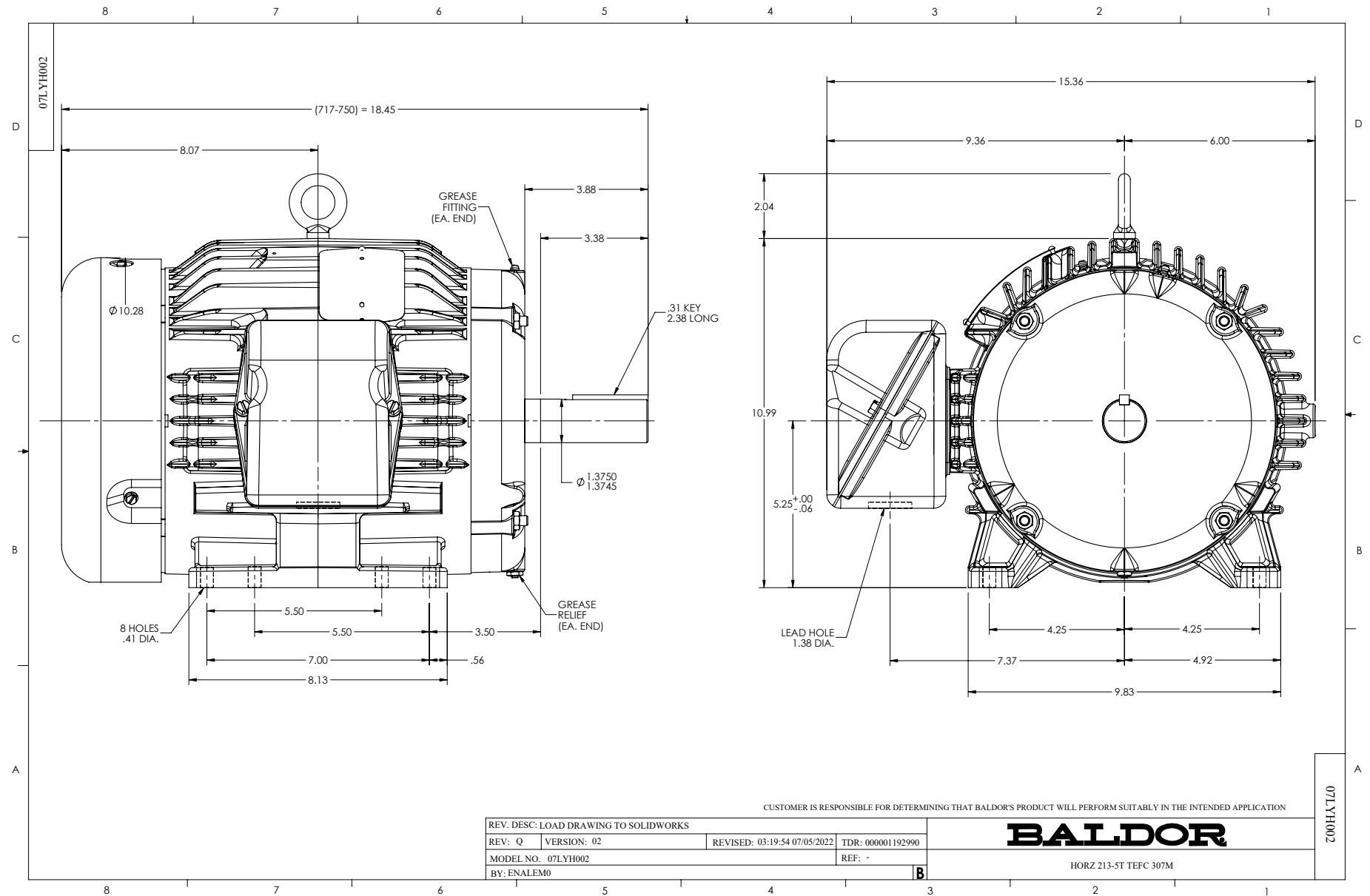
Winding: 07WGT510-R001				Type: 0738M		Enclosure: TEFC					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		7.5		Full Load Torque		22.3 LB-FT					
Volts		230/460		Start Configuration		direct on line					
Full Load Amps		19/9.5		Breakdown Torque		69.1 LB-FT					
R.P.M.		1770		Pull-up Torque		28.7 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		39.1 LB-FT			
NEMA Design Code		A		KVA Code		J		Starting Current		67.4 A	
Service Factor (S.F.)		1.15		No-load Current		4.07 A					
NEMA Nom. Eff.		91.7		Power Factor		81		Line-line Res. @ 25°C		1.55 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		48°C			
S.F. Amps		21.4/10.7		Temp. Rise @ S.F. Load		62°C					
				Locked-rotor Power Factor		41.2					
				Rotor inertia		0.934 lb-ft²					

Load Characteristics 460 V, 60 Hz, 7.5 HP

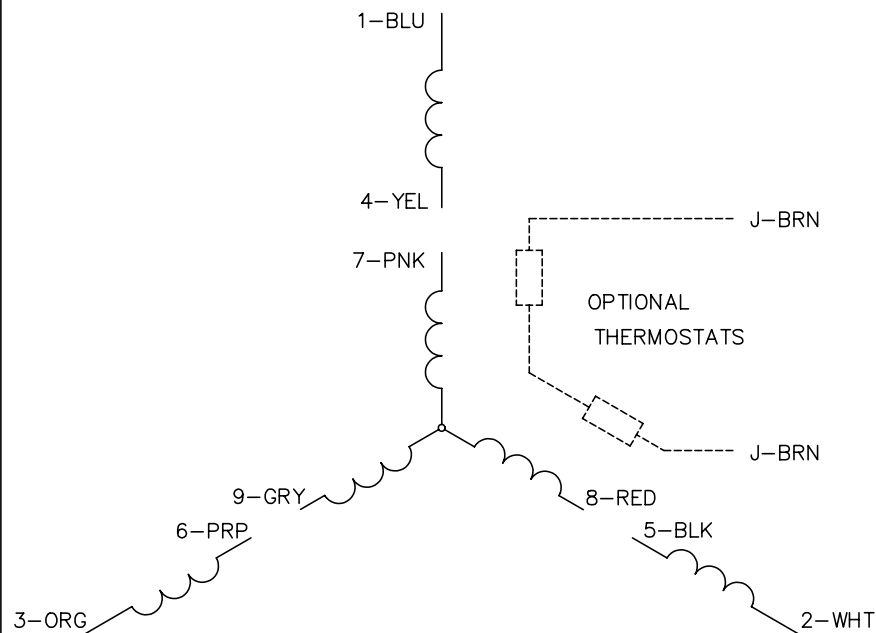
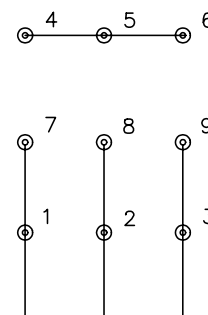
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	76	81	84	85	83
Efficiency	88	91.7	92.2	91.7	90.7	89.3	90.9
Speed	1792	1785	1777	1769	1759	1749	1761
Line amperes	4.61	5.85	7.48	9.43	11.6	13.9	10.7

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values

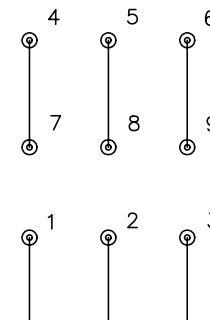




CD0005

LOW VOLTAGE
(2Y)

LINE

HIGH VOLTAGE
(1Y)

LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005