



Customer information packet

EM3774T

10HP, 1765RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	27.000 A @ 208.0 V 24.600 A @ 230.0 V 12.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	H
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGT511
Layout	07LYH002
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#14 Y
Proprietary	False
Created date	11-11-2020

Heater Indicator	No Heater
High Voltage Full Load Amps	12.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.45 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA

CAT.NO.	EM3774T						
SPEC	07H002T511G1						
HP	10						
VOLTS	230/460						
AMPS	24.6/12.3						
RPM	1765						
FRAME	215T	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			N/A		
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					SF1.0	

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

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	Locked-rotor Torque	50.9 LB-FT
NEMA Design Code	B KVA Code	Starting Current	85.9 A
Service Factor (S.F.)	1.15	No-load Current	4.67 A
NEMA Nom. Eff.	91.7 Power Factor	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-ft ²

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

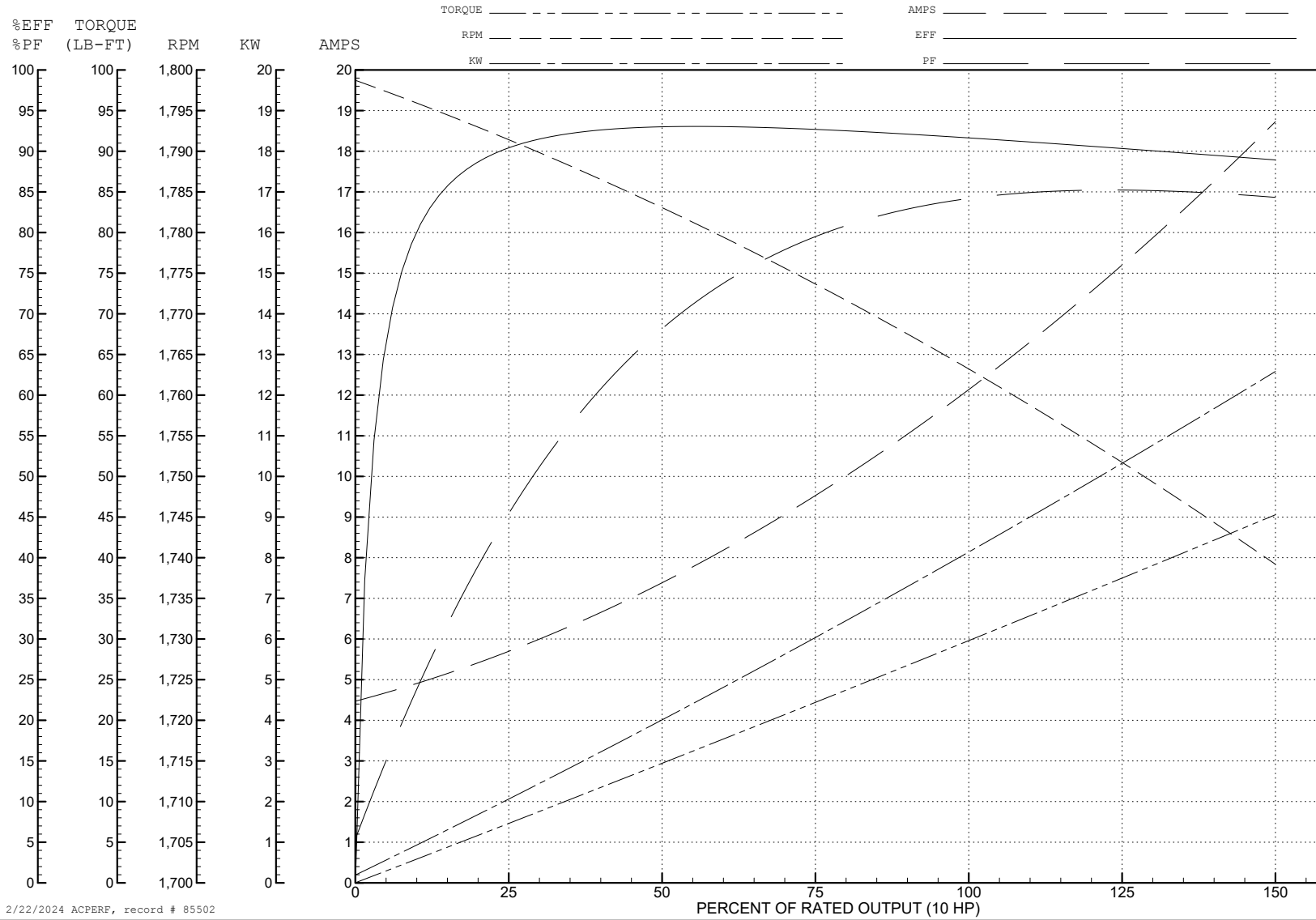
ABB Motors and Mechanical Inc.

WINDING # 07WGT511

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1765 RPM 460 V 0748M

TORQUES (LB-FT): PO=84.1 PU=39.8 LR=50.9 LRA=85.9



2/22/2024 ACPERF, record # 85502

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-ft ²	

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

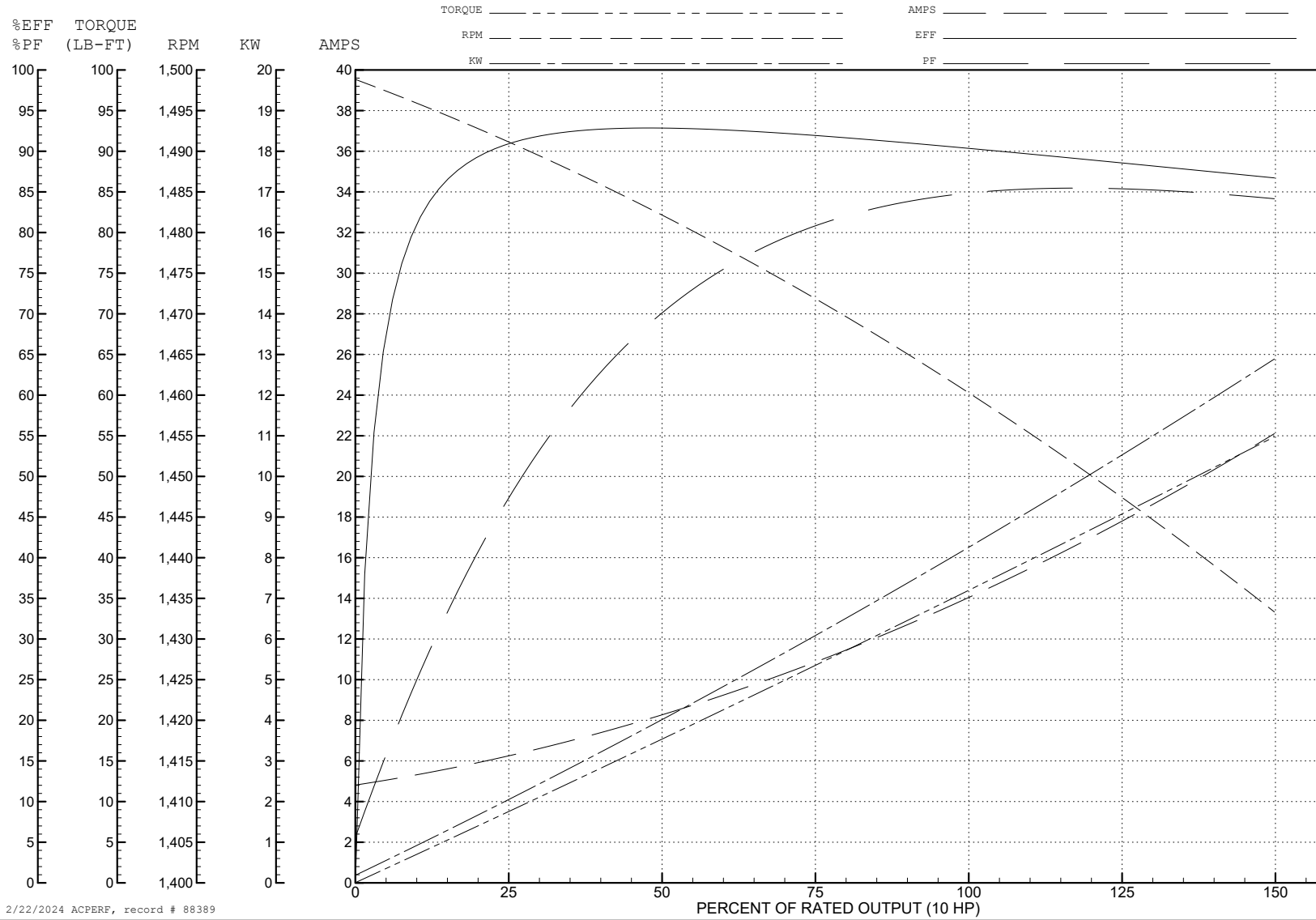
ABB Motors and Mechanical Inc.

WINDING # 07WGT511

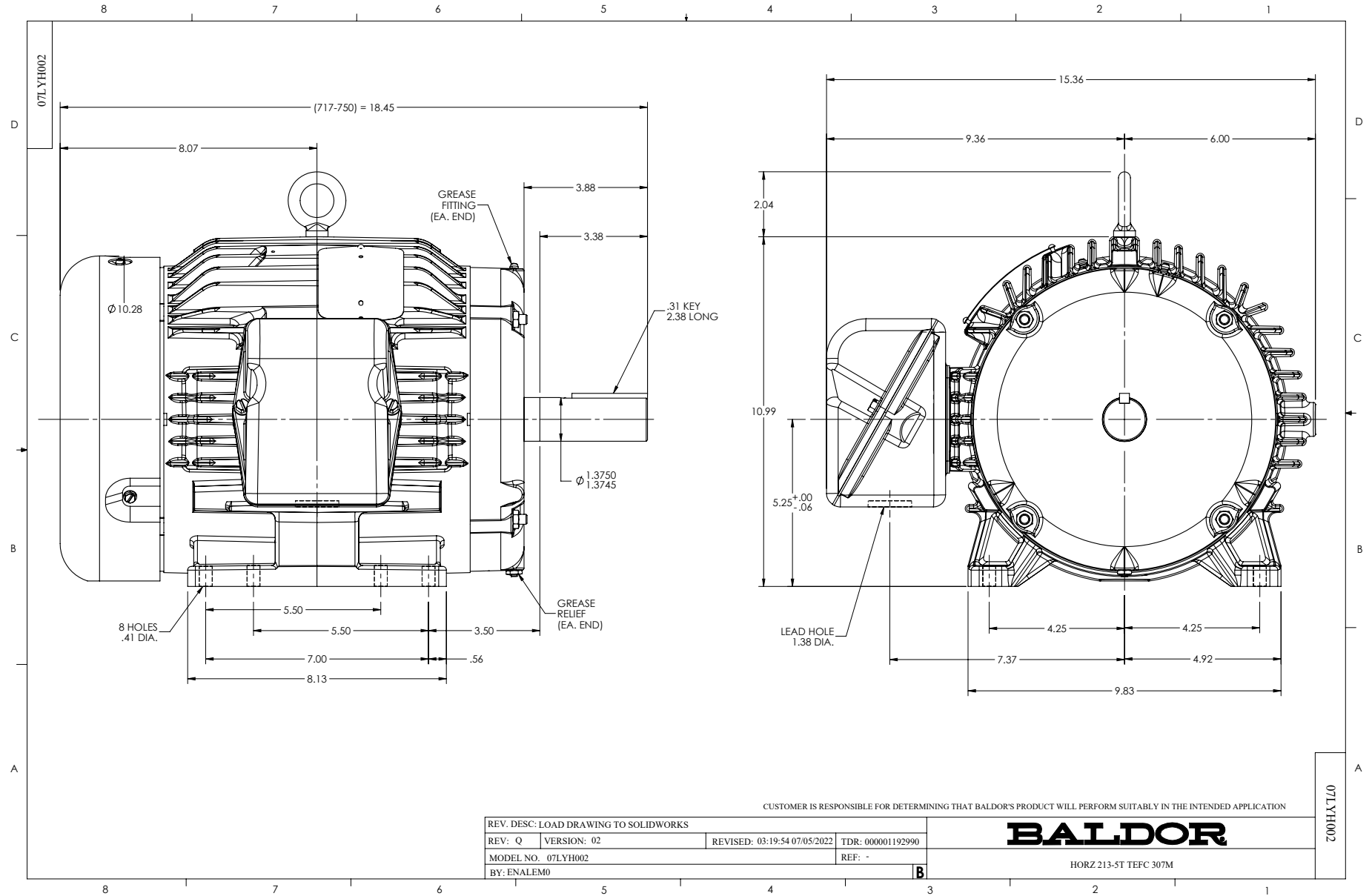
Typical performance - not guaranteed values.

10 HP 3 PH 50 HZ 1765 RPM 400 V 0748M

TORQUES (LB-FT): PO=89.52 PU=46.23 LR=59.13 LRA=88.53



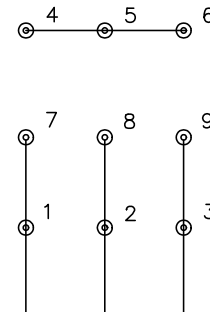
2/22/2024 ACPERF, record # 88389



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
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005