ABB BALDOR RELIANCE

Customer information packet

EM3774T

10HP, 1765RPM, 3PH, 60HZ, 215T, 0748M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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
Agency Approvals	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.300 A @ 460.0 V
	24.600 A @ 230.0 V
	27.000 A @ 208.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	12.3 a

Part Detail

Revision	K
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGT511
Layout	07LYH002
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#14 Y
Proprietary	False
Created date	11-11-2020

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									
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

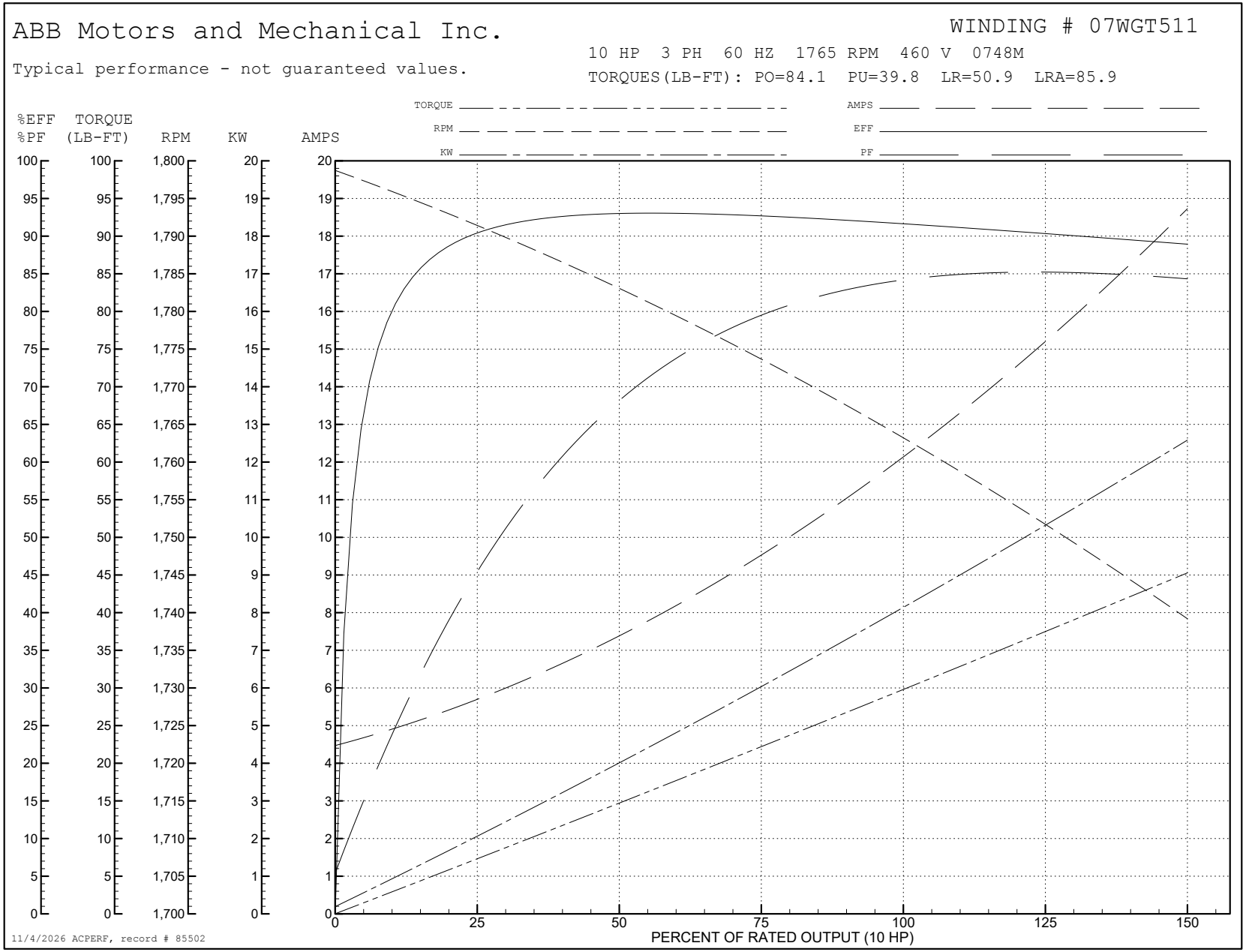
AC Induction Motor Performance Data
Record # 85502
Preliminary Data Sheet

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**	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. @ 25ºC**	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


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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/4/2026 ACPERF, record # 85502

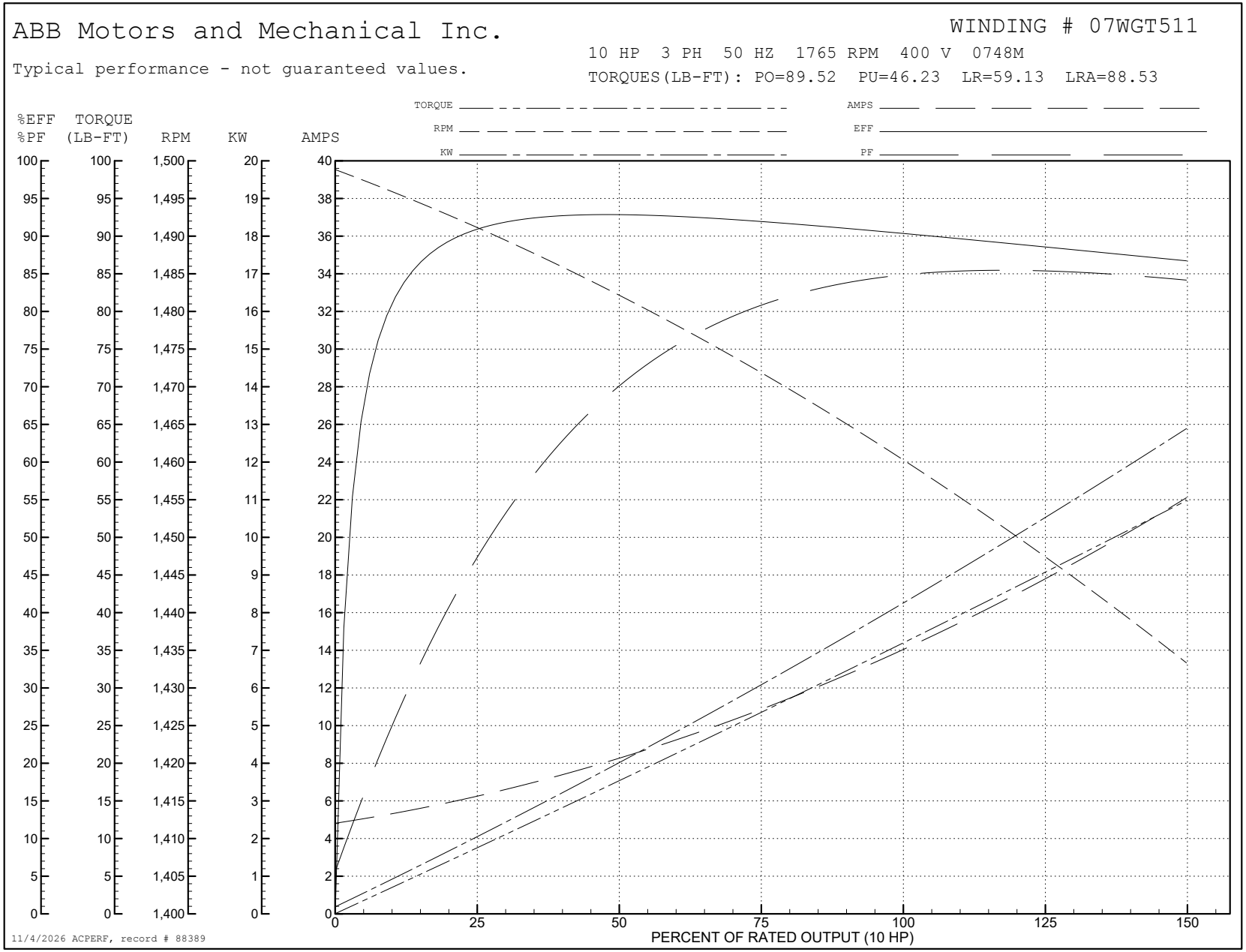
AC Induction Motor Performance Data
Record # 88389
Typical performance - not guaranteed values

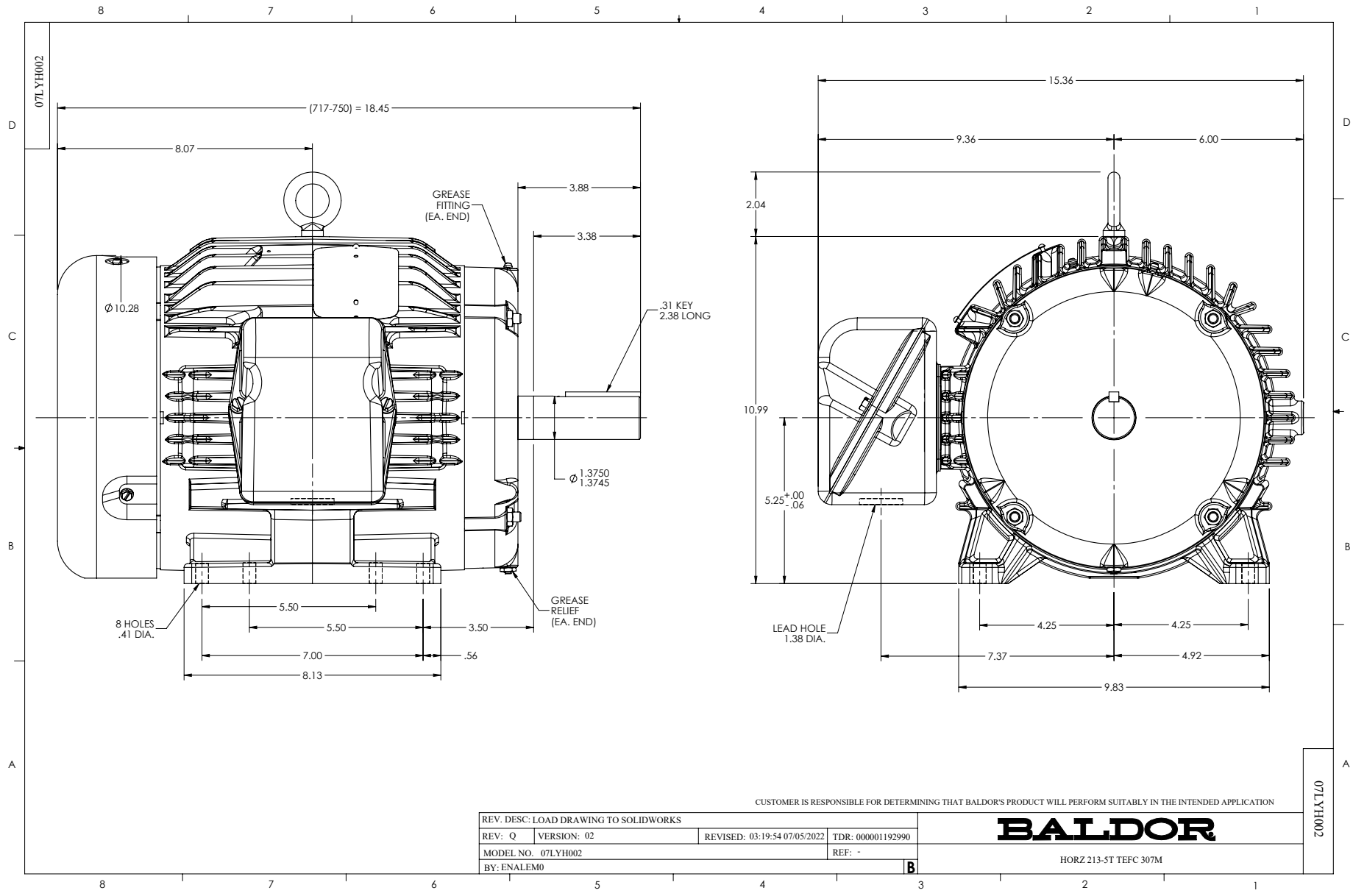
Winding: 07WGT511-R001	**Type:** 0748M	**Enclosure:** TEFC

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. @ 25ºC**	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

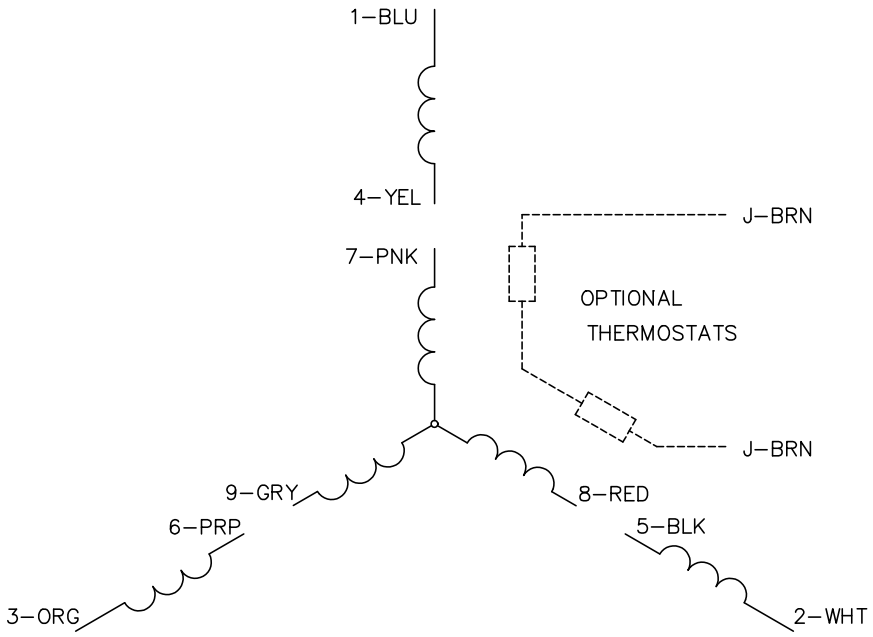
Load Characteristics 400 V, 50 Hz, 10 HP

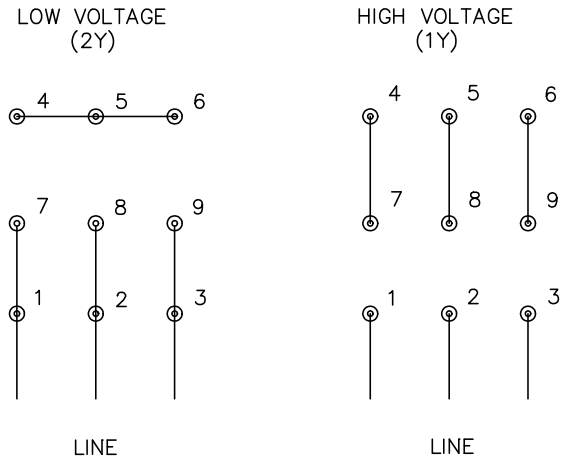
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	71	80	84	85	85	85
Efficiency	90	92.4	91.9	90.4	88.9	86.5	89.5
Speed	1491	1482	1472	1460	1448	1433	1453
Line amperes	5.96	8.13	10.95	14.22	17.88	21.98	16.4


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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/4/2026 ACPERF, record # 88389


07LYH002
(717-750) = 18.45
8.07
3.88
3.38
GREASE FITTING (EA. END)
Ø 10.28
.31 KEY 2.38 LONG
Ø 1.3750 1.3745
8 HOLES .41 DIA.
5.50
5.50
3.50
7.00
.56
8.13
GREASE RELIEF (EA. END)
15.36
9.36
6.00
2.04
10.99
5.25 +.00 -.06
LEAD HOLE 1.38 DIA.
4.25
4.25
7.37
4.92
9.83
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: Q
VERSION: 02
REVISED: 03:19:54 07/05/2022
TDR: 000001192990
MODEL NO. 07LYH002
REF: -
BY: ENALEM0
B
BALDOR
HORZ 213-5T TEFC 307M
07LYH002

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS