ABB BALDOR RELIANCE

Customer information packet

EBM3714TY-DI

10HP, 1770RPM, 3PH, 60HZ, 215T, 3752M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Steel
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	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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	27.000 A @ 208.0 V
	25.000 A @ 230.0 V
	12.500 A @ 460.0 V
Design Code	A
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	C
Type	AC
Mech. spec.	37H582
Base	
Status	PRD/A
Elec. spec.	37WGL865
Layout	37LYH582
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-29-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
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	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.70 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP1259L									
CAT.NO.	EBM3714TY-DI								
SPEC.	37H582L865G2								
HP	10								
VOLTS	230/460								
AMP	25/12.5								
RPM	1770								
FRAME	215T	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	A	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		**ODE**	6306					
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 85459
Preliminary Data Sheet

Winding: 37WGL865-R001 **Type:** 3752M **Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			10
Volts			230/460
Full Load Amps			25/12.5
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	29.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	102 LB-FT
Pull-up Torque	46.9 LB-FT
Locked-rotor Torque	62.2 LB-FT
Starting Current	101 A
No-load Current	5.33 A
Line-line Res. @ 25ºC	0.957 Ω
Temp. Rise @ Rated Load	69°C
Temp. Rise @ S.F. Load	86°C
Locked-rotor Power Factor	35.8
Rotor inertia	1.28 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	77	81	84	85	84
Efficiency	88.4	91.8	92.4	92.1	91	89.9	91.4
Speed	1793	1786	1778	1770	1761	1751	1762
Line amperes	6.05	7.73	9.9	12.5	15.3	18.3	14.1

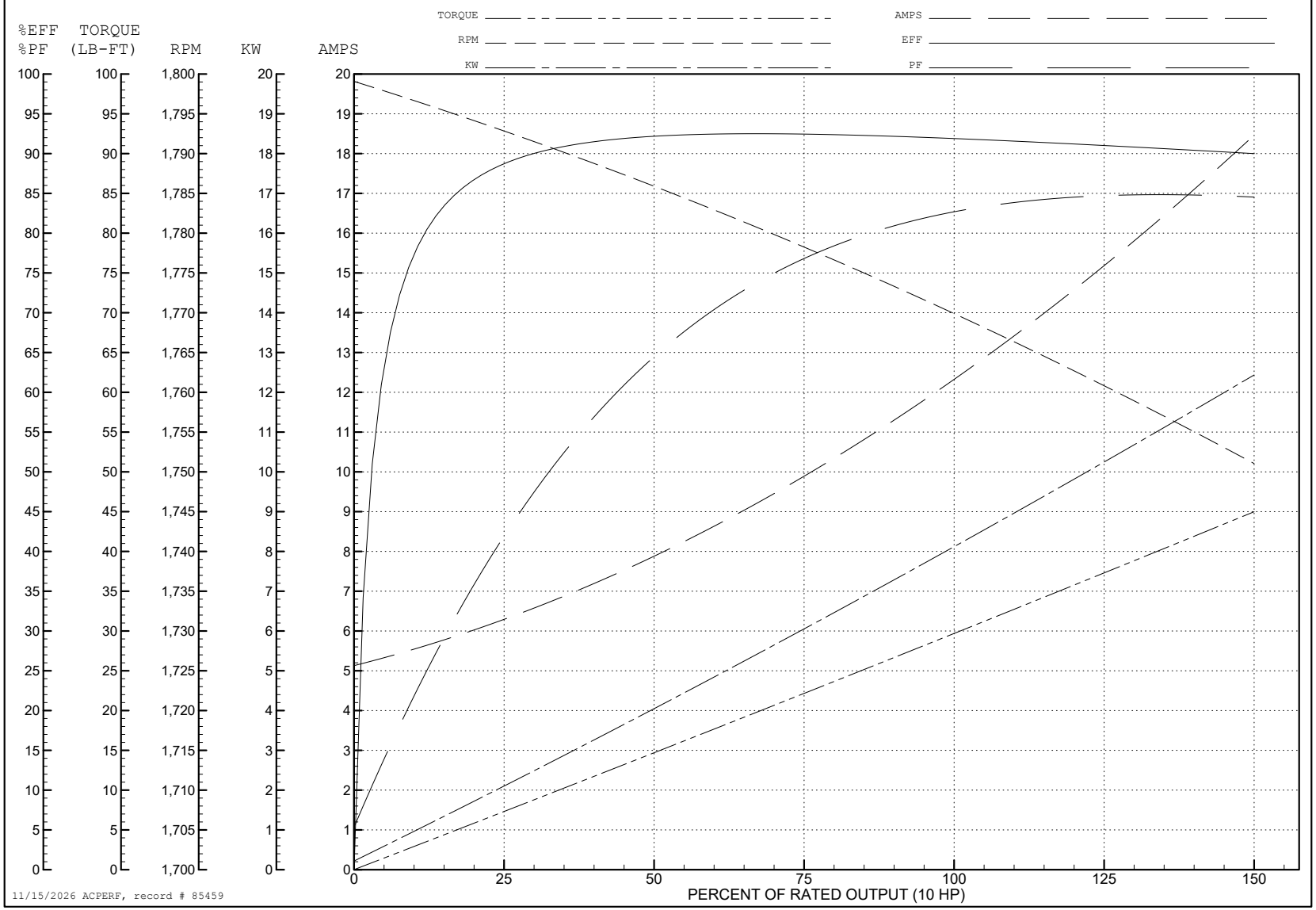
ABB Motors and Mechanical Inc.

WINDING # 37WGL865

10 HP 3 PH 60 HZ 1770 RPM 460 V 3752M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=102 PU=46.9 LR=62.2 LRA=101



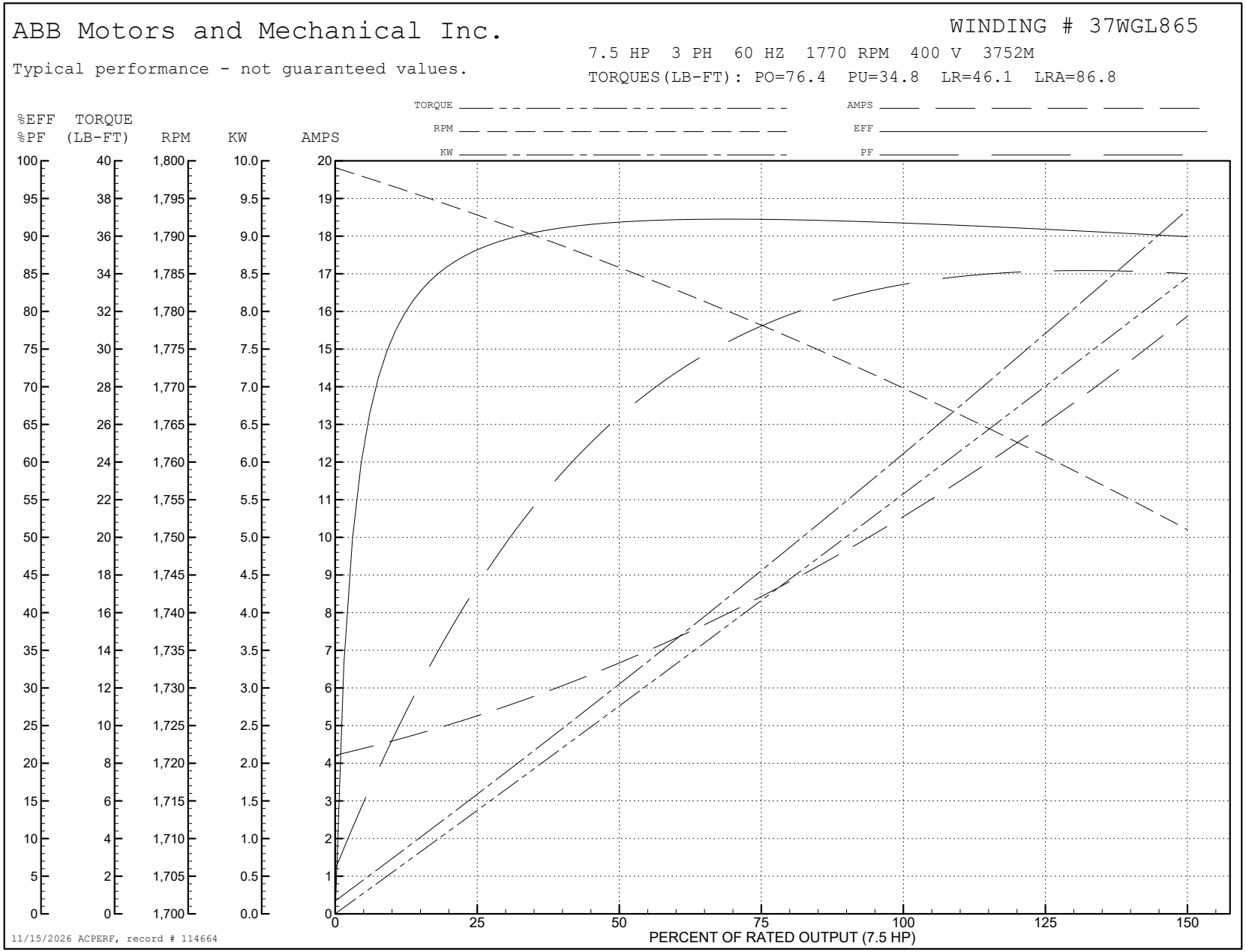
AC Induction Motor Performance Data
Record # 114664
Typical performance - not guaranteed values

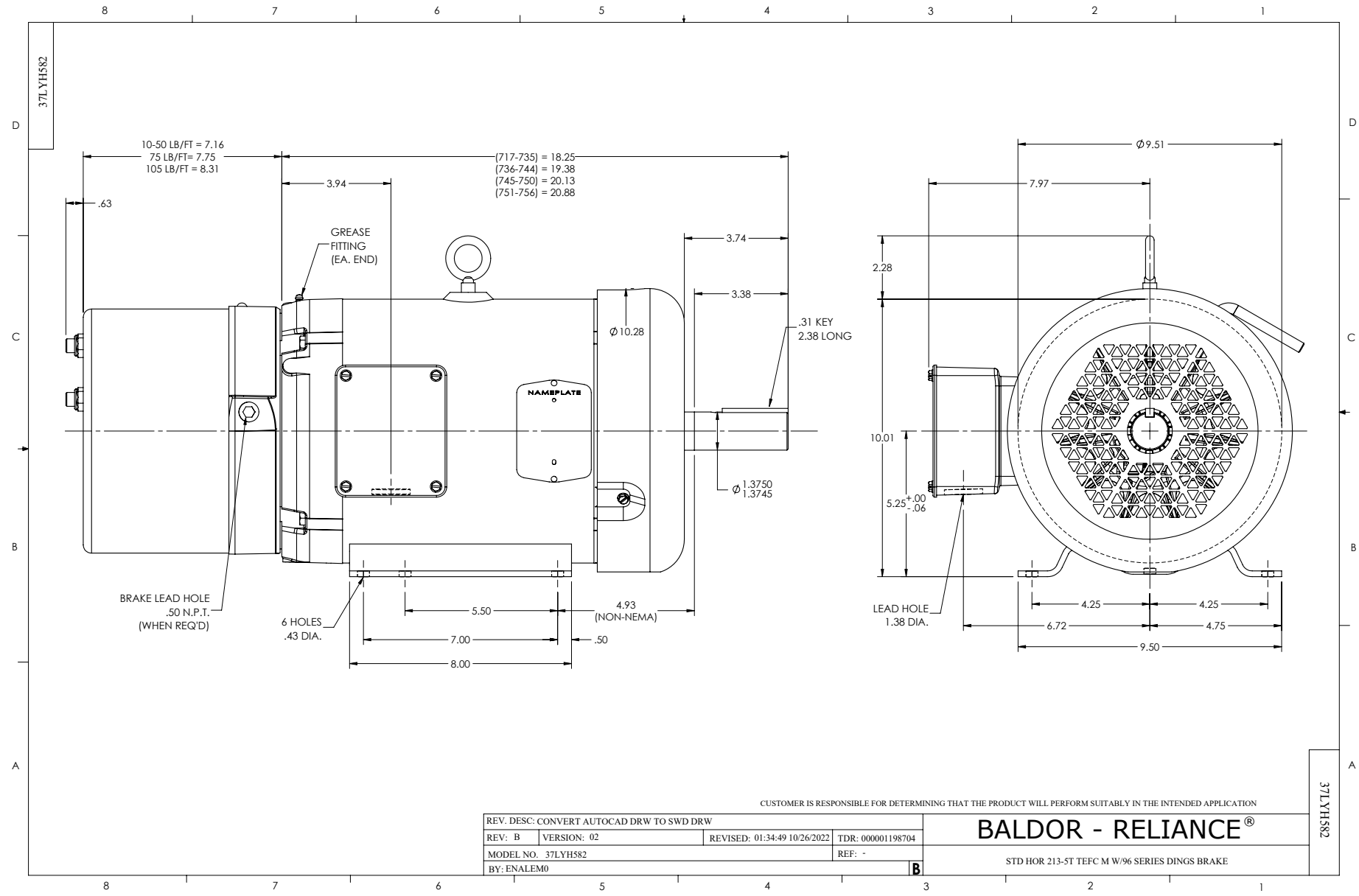
Winding: 37WGL865-R001	**Type:** 3752M	**Enclosure:** TEFC

Nameplate Data			**400 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		7.5	**Full Load Torque**	22.28 LB-FT
Volts		200/400	**Start Configuration**	direct on line
Full Load Amps		21.4/10.7	**Breakdown Torque**	76.4 LB-FT
R.P.M.		1770	**Pull-up Torque**	34.8 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	46.1 LB-FT
NEMA Design Code	A **KVA Code**	K	**Starting Current**	86.8 A
Service Factor (S.F.)		1.15	**No-load Current**	4.39 A
NEMA Nom. Eff.	91.7 **Power Factor**	82	**Line-line Res. @ 25ºC**	0.957 Ω
Rating - Duty		50C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps		24.3/12.15	**Temp. Rise @ S.F. Load**	63°C
			Locked-rotor Power Factor	35.8
			Rotor inertia	1.28 lb-ft²

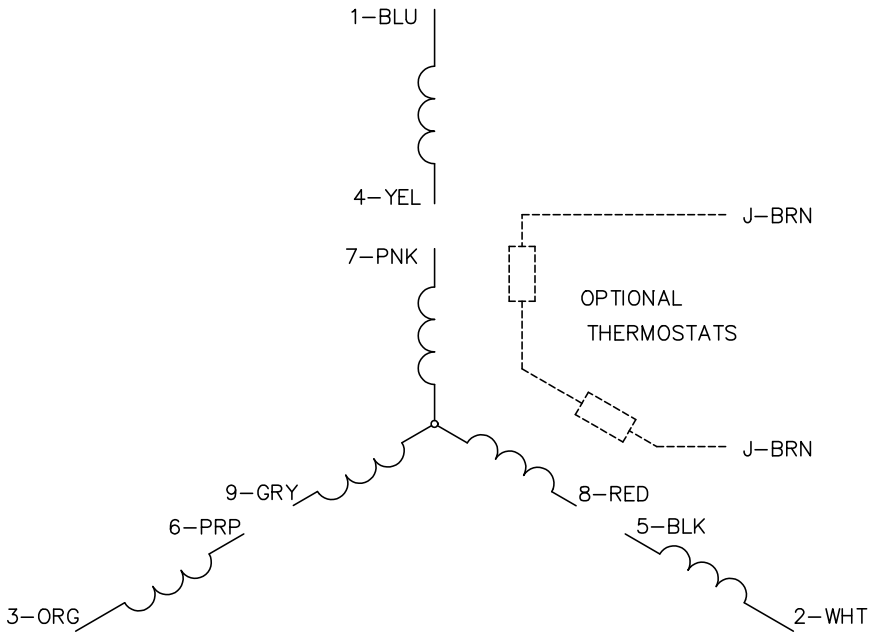
Load Characteristics 400 V, 60 Hz, 7.5 HP

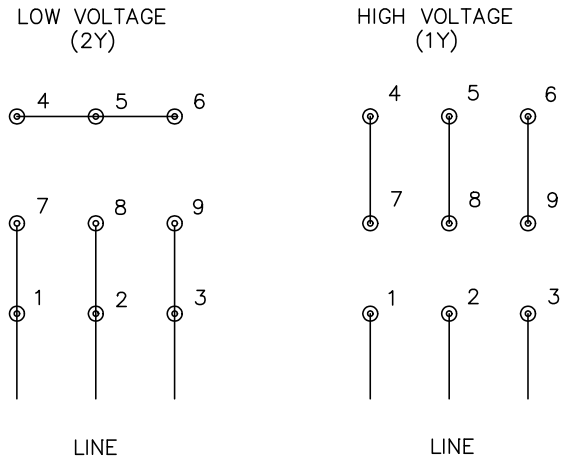
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	68	78	82	85	86	84
Efficiency	87.7	91.5	92.1	92	90.9	89.8	91.3
Speed	1793	1786	1778	1770	1761	1751	1765
Line amperes	5.04	6.54	8.4	10.69	13.11	15.73	12.1


ABB Motors and Mechanical Inc.
WINDING # 37WGL865
7.5 HP 3 PH 60 HZ 1770 RPM 400 V 3752M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=76.4 PU=34.8 LR=46.1 LRA=86.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/15/2026 ACPERF, record # 114664


37LYH582
10-50 LB/FT = 7.16
75 LB/FT= 7.75
105 LB/FT = 8.31
(717-735) = 18.25
(736-744) = 19.38
(745-750) = 20.13
(751-756) = 20.88
3.94
.63
GREASE FITTING (EA. END)
3.74
3.38
Ø10.28
.31 KEY
2.38 LONG
NAMEPLATE
Ø1.3750
1.3745
BRAKE LEAD HOLE
.50 N.P.T.
(WHEN REQ'D)
6 HOLES
.43 DIA.
5.50
4.93
(NON-NEMA)
7.00
.50
8.00
Ø9.51
7.97
2.28
10.01
5.25 +.00 -.06
LEAD HOLE
1.38 DIA.
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 01:34:49 10/26/2022
TDR: 000001198704
MODEL NO. 37LYH582
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HOR 213-5T TEFC M W/96 SERIES DINGS BRAKE
37LYH582

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