



Customer information packet

CEM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3752M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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 EEV NEMA PREMIUM 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.	37G814
Base	
Status	PRD/A
Elec. spec.	37WGL865
Layout	37LYG814
Eff. date	05-02-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-11-2020

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	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	21.26 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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

NP3441LUA

CAT.NO.	CEM3714T									
SPEC	37G814L865G1									
HP	10									
VOLTS	230/460									
AMPS	25/12.5									
RPM	1770									
FRAME	215TC		HZ	60			PH	3		
SF	1.15		CODE	K	DES	A	CLASS	F		
NEMA NOM. EFF	91.7		PF	85						
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC		SER							
DE	6307		ODE	6206						
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 10HP 190/380V 29.8/14.9A								SF1.0	

AC Induction Motor Performance Data

Record # 85459

Preliminary Data Sheet

Winding: 37WGL865-R001			Type: 3752M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		29.7 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		25/12.5	Breakdown Torque		102 LB-FT		
R.P.M.		1770	Pull-up Torque		46.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		62.2 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		101 A
Service Factor (S.F.)		1.15	No-load Current		5.33 A		
NEMA Nom. Eff.		91.7	Power Factor	85	Line-line Res. @ 25°C		0.957 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		69°C
S.F. Amps					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

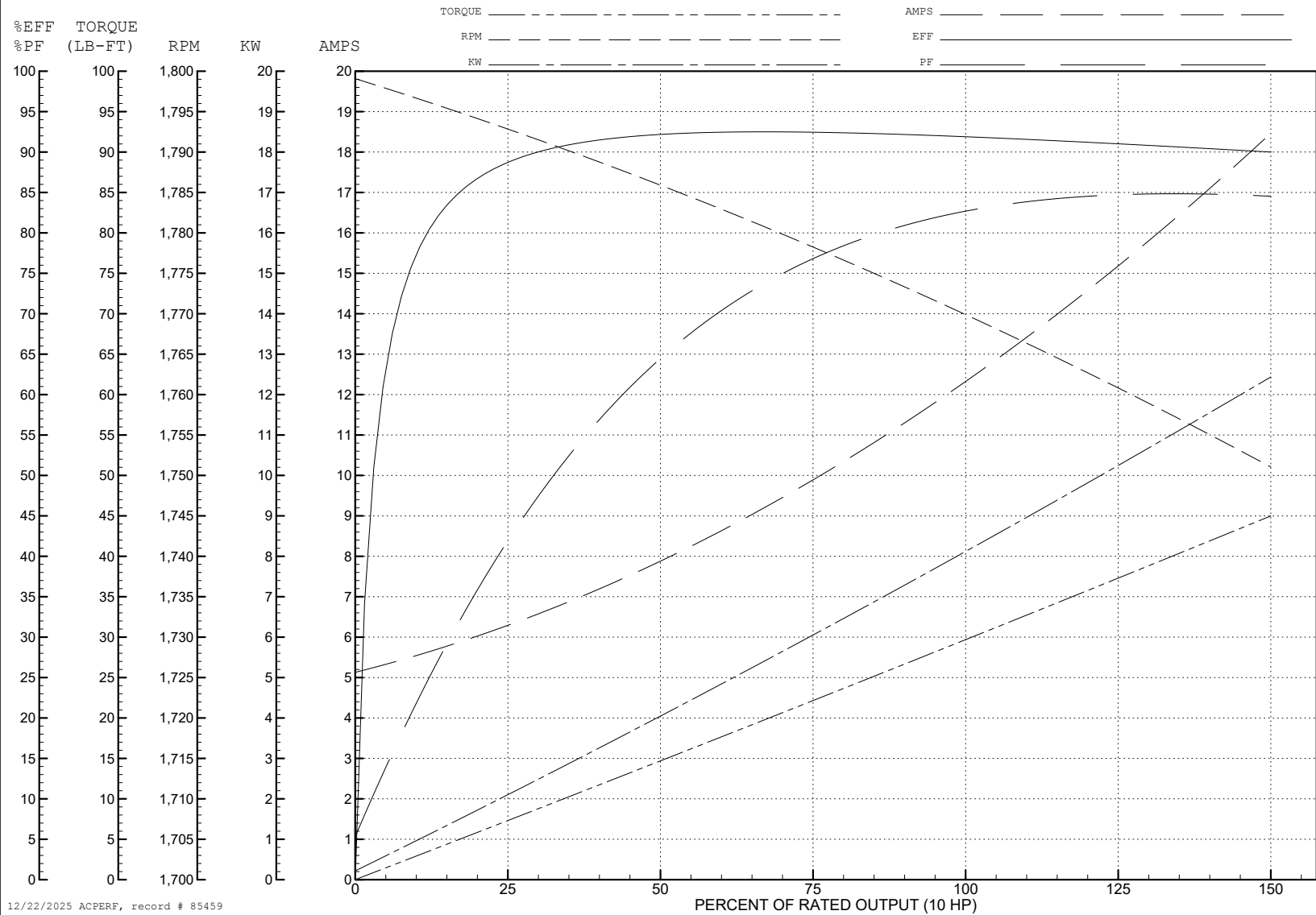
ABB Motors and Mechanical Inc.

WINDING # 37WGL865

Typical performance - not guaranteed values.

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

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	
Service Factor (S.F.)		1.15	Starting Current		86.8 A	
Line-line Res. @ 25°C		0.957 Ω	No-load Current		4.39 A	
NEMA Nom. Eff.		91.7	Power Factor		82	
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

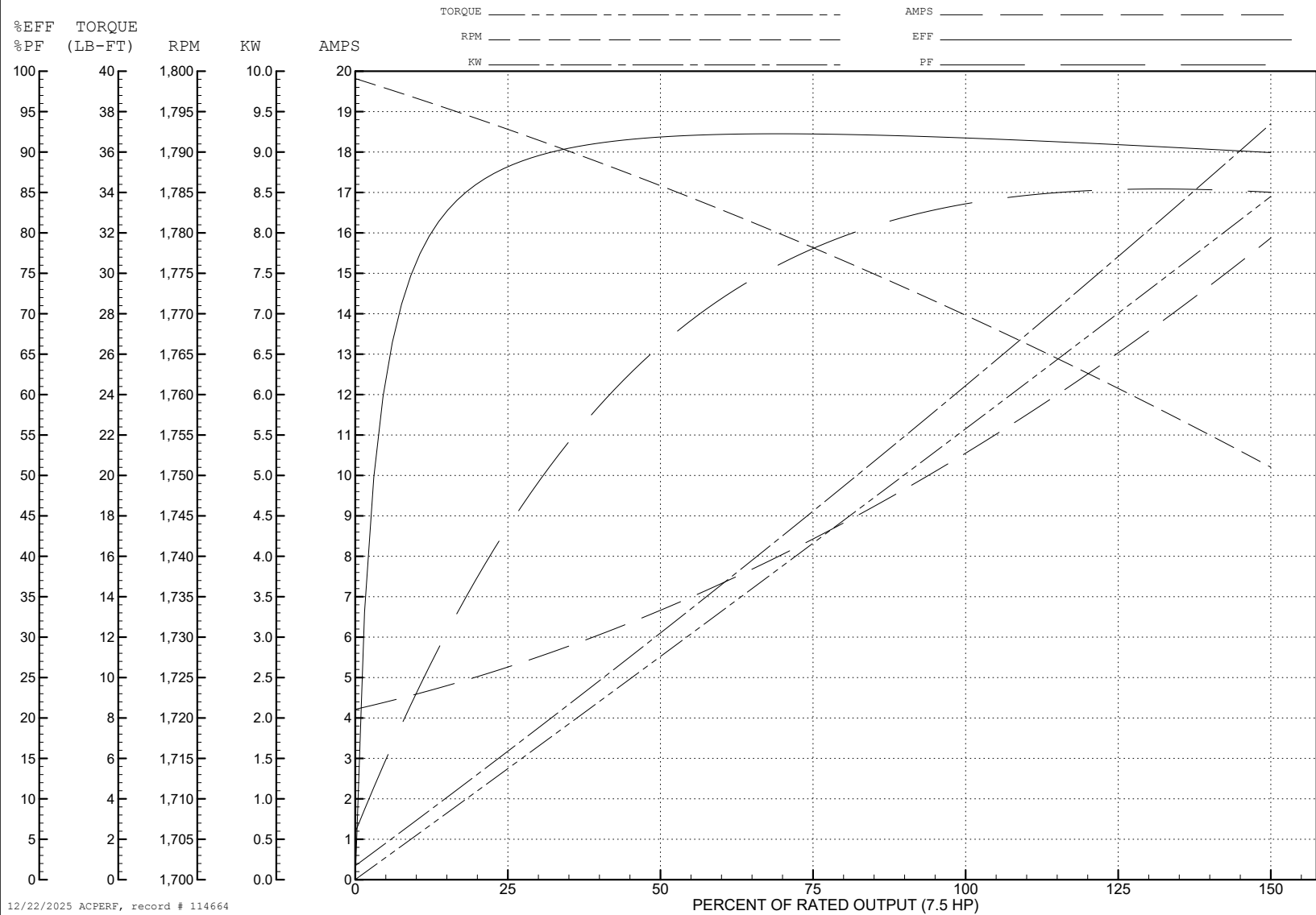
ABB Motors and Mechanical Inc.

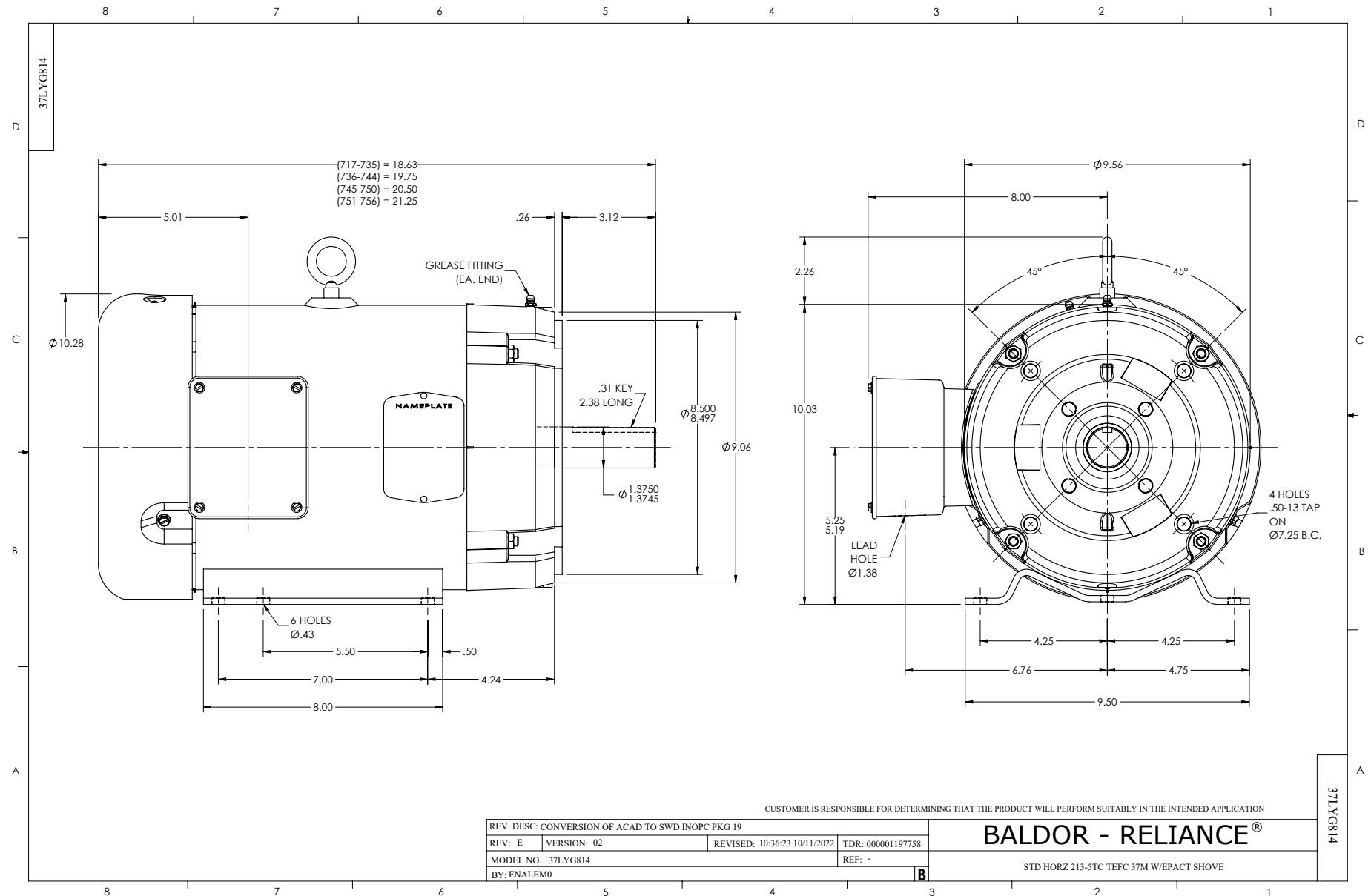
WINDING # 37WGL865

Typical performance - not guaranteed values.

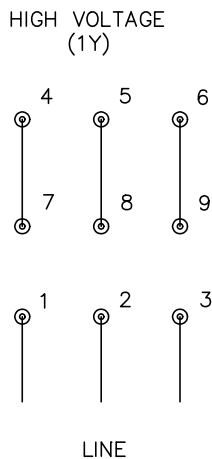
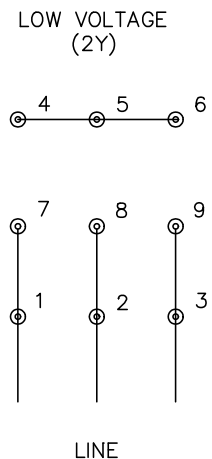
7.5 HP 3 PH 60 HZ 1770 RPM 400 V 3752M

TORQUES (LB-FT): PO=76.4 PU=34.8 LR=46.1 LRA=86.8





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
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BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005