ABB BALDOR RELIANCE

Customer information packet

EWDM3714T

10HP, 1768RPM, 3PH, 60HZ, 215T, 3750M, 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	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	12.400 A @ 460.0 V
	24.800 A @ 230.0 V
	27.000 A @ 208.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	12.4 a

Part Detail

Revision	A
Type	AC
Mech. spec.	37H451
Base	
Status	PRD/A
Elec. spec.	37WGZ711
Layout	37LYH451
Eff. date	12-03-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-05-2025

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	3750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.77 IN
Power Factor	85
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
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	Shaft Slinger
Speed	1768 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

NP1669L									
CAT.NO.	EWDM3714T								
SPEC.	37H451Z711								
HP	10								
VOLTS	230/460								
AMP	24.8/12.4								
RPM	1768								
FRAME	215T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	91.7	**PF**	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
BLANK	SFA 28.2/14.1								

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 115760
Typical performance - not guaranteed values

Winding: 37WGZ711-R001	**Type:** 3750M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		10	**Full Load Torque**	29.79 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		24.8/12.4	**Breakdown Torque**	93.4 LB-FT
R.P.M.		1768	**Pull-up Torque**	44.7 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	55.5 LB-FT
NEMA Design Code	A **KVA Code**	K	**Starting Current**	90.5 A
Service Factor (S.F.)		1.15	**No-load Current**	5.11 A
NEMA Nom. Eff.	91.7 **Power Factor**	85	**Line-line Res. @ 25ºC**	1.1801 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	77°C
S.F. Amps		28.2/14.1	**Temp. Rise @ S.F. Load**	108°C
			Locked-rotor Power Factor	37.2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	68	78	82	85	85	84
Efficiency	89.9	92.6	92.6	91.8	90.5	88.9	91
Speed	1792.4	1785	1776.3	1767.2	1756.7	1745.2	1756
Line amperes	5.83	7.54	9.79	12.4	15.3	18.6	14.2

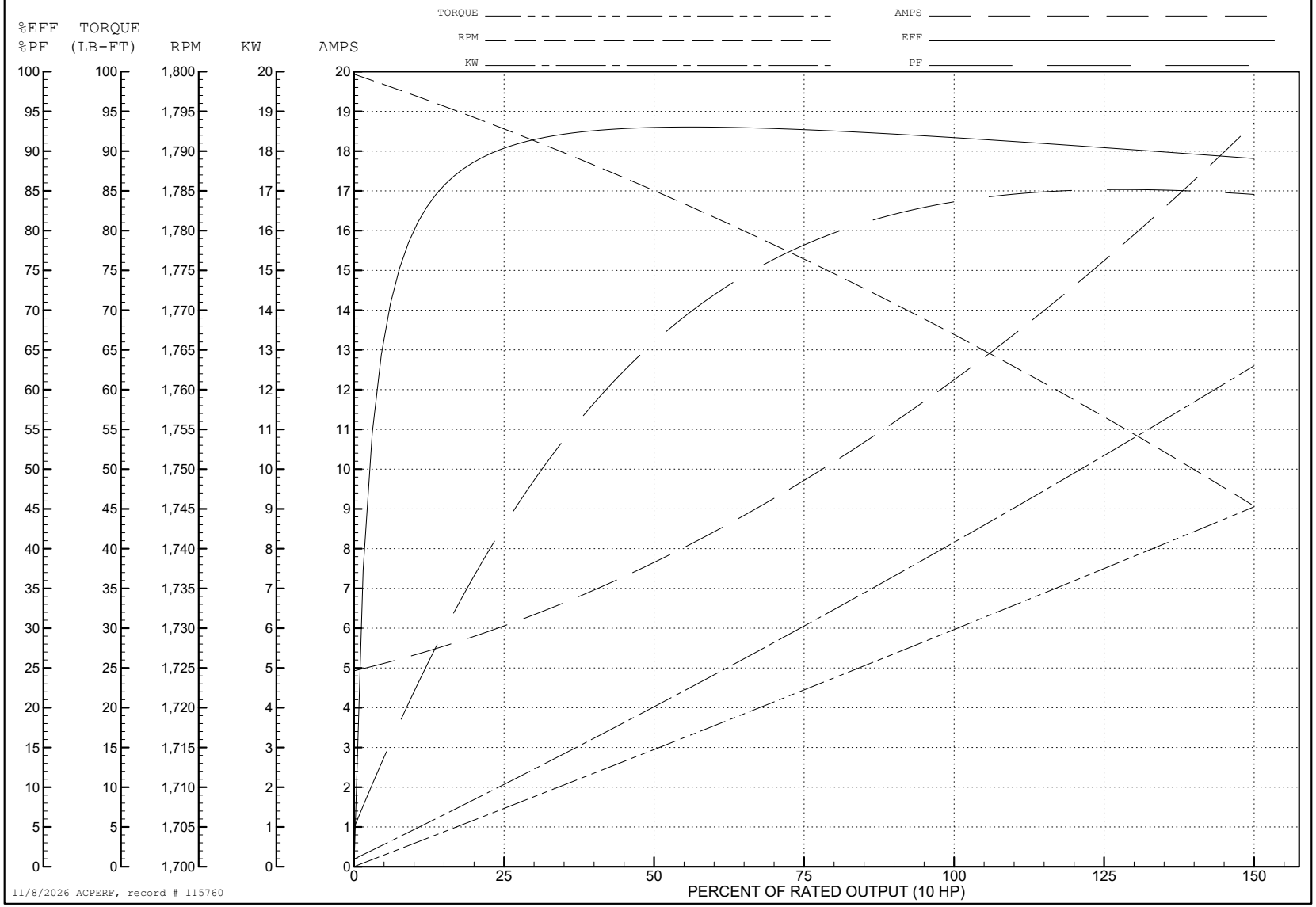
ABB Motors and Mechanical Inc.

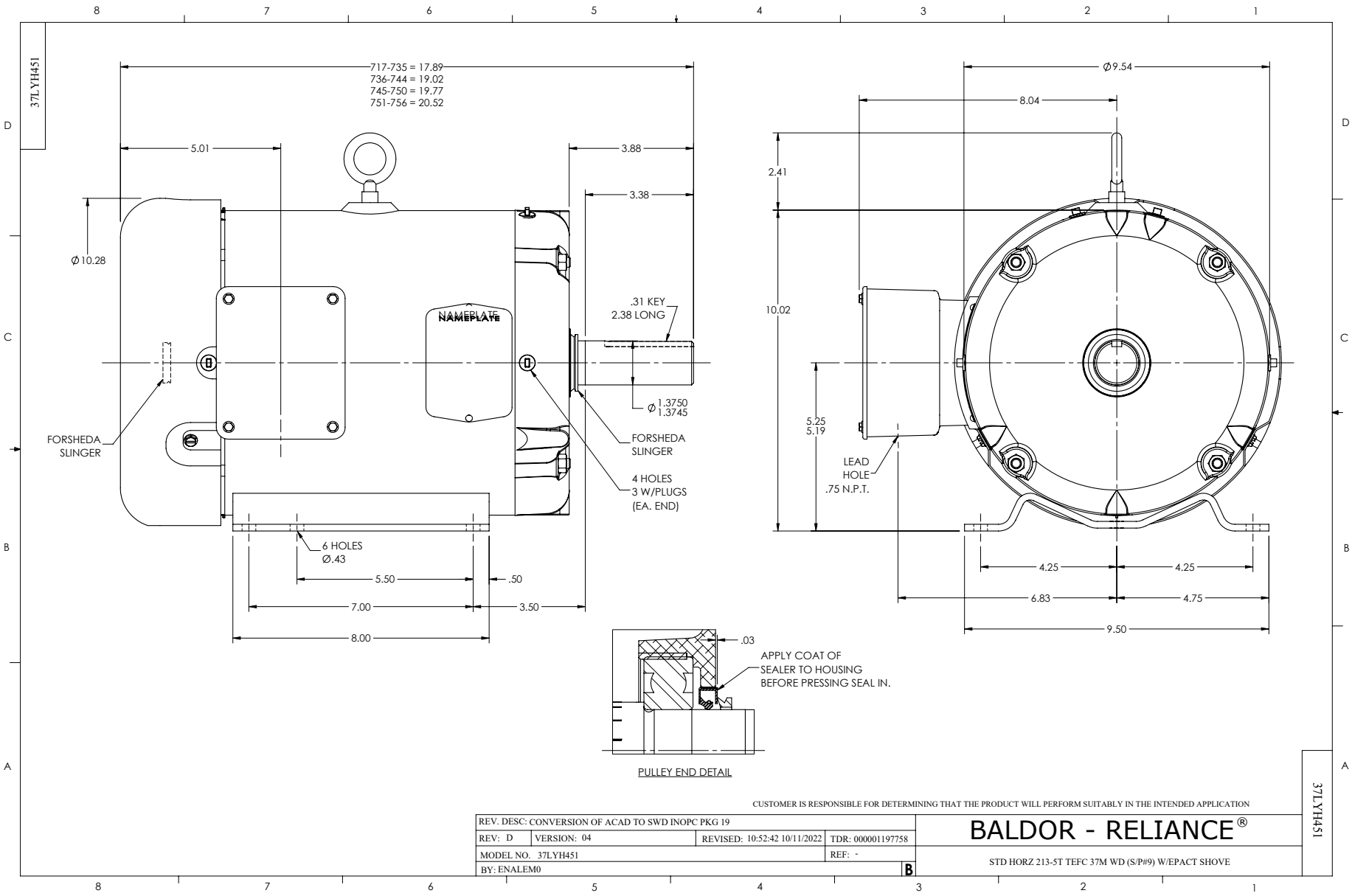
WINDING # 37WGZ711

10 HP 3 PH 60 HZ 1768 RPM 460 V 3750M

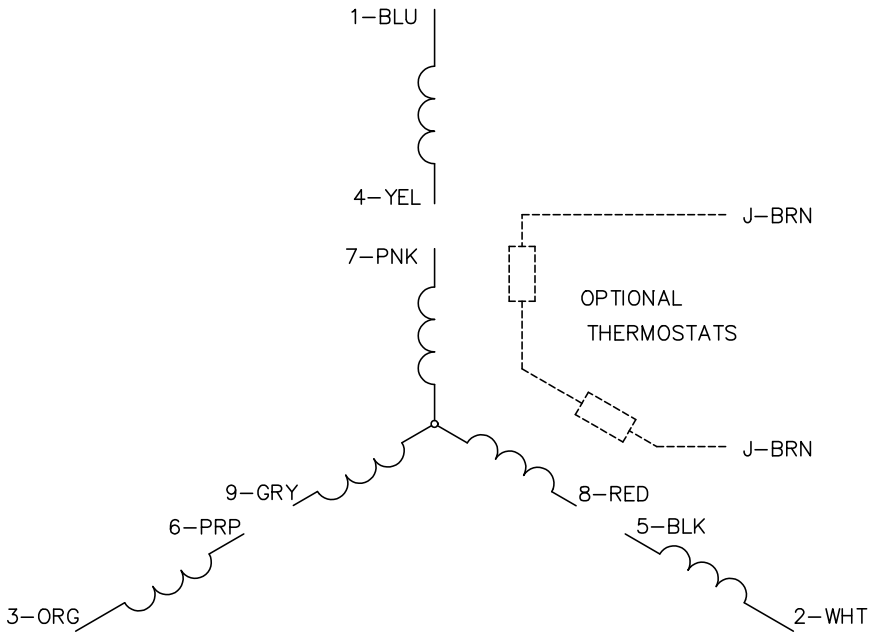
Typical performance - not guaranteed values.

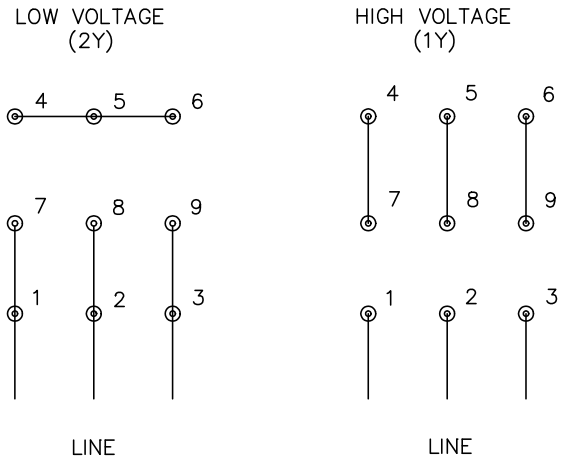
TORQUES(LB-FT): PO=93.4 PU=44.7 LR=55.5 LRA=90.5




37LYH451
717-735 = 17.89
736-744 = 19.02
745-750 = 19.77
751-756 = 20.52
5.01
3.88
3.38
Ø10.28
NAMEPLATE
.31 KEY
2.38 LONG
Ø1.3750
1.3745
FORSHEDA
SLINGER
FORSHEDA
SLINGER
4 HOLES
3 W/PLUGS
(EA. END)
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.54
8.04
2.41
10.02
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4.25
4.25
6.83
4.75
9.50
.03
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING SEAL IN.
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: D
VERSION: 04
REVISED: 10:52:42 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH451
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5T TEFC 37M WD (S/P#9) W/EPACT SHOVE
37LYH451

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