ABB BALDOR RELIANCE

Customer information packet

EWDM3705T

3HP, 865RPM, 3PH, 60HZ, 215T, 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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 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	10.400 A @ 230.0 V
	5.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGT944
Layout	37LYE572
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	08
Leads	9#14
Proprietary	False
Created date	12-04-2019

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	19.79 IN
Power Factor	62
Product Family	Wash Down
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	865 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.	EWDM3705T								
SPEC.	37-0000-0171								
HP	3								
VOLTS	230/460								
AMP	10.4/5.2								
RPM	865								
FRAME	215T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	86.5	**PF**	62						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
BLANK	10:1CT, 10:1VT,1.00SF								

AC Induction Motor Performance Data
Record # 49977
Typical performance - not guaranteed values

Winding: 37WGT944-R007	**Type:** 3744M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			3
Volts			230/460
Full Load Amps			10.4/5.2
R.P.M.			865
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	86.5	**Power Factor**	62
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	18.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	49 LB-FT
Pull-up Torque	27.6 LB-FT
Locked-rotor Torque	30.6 LB-FT
Starting Current	25.6 A
No-load Current	3.21 A
Line-line Res. @ 25ºC	3.5 Ω
Temp. Rise @ Rated Load	34°C
Temp. Rise @ S.F. Load	41°C
Locked-rotor Power Factor	33.3
Rotor inertia	1.09 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	43	55	62	66	69	64
Efficiency	78.9	85.6	87	86.8	85.6	83	86.1
Speed	891	884	875	865	853	840	858
Line amperes	3.39	3.82	4.45	5.25	6.18	7.3	5.81

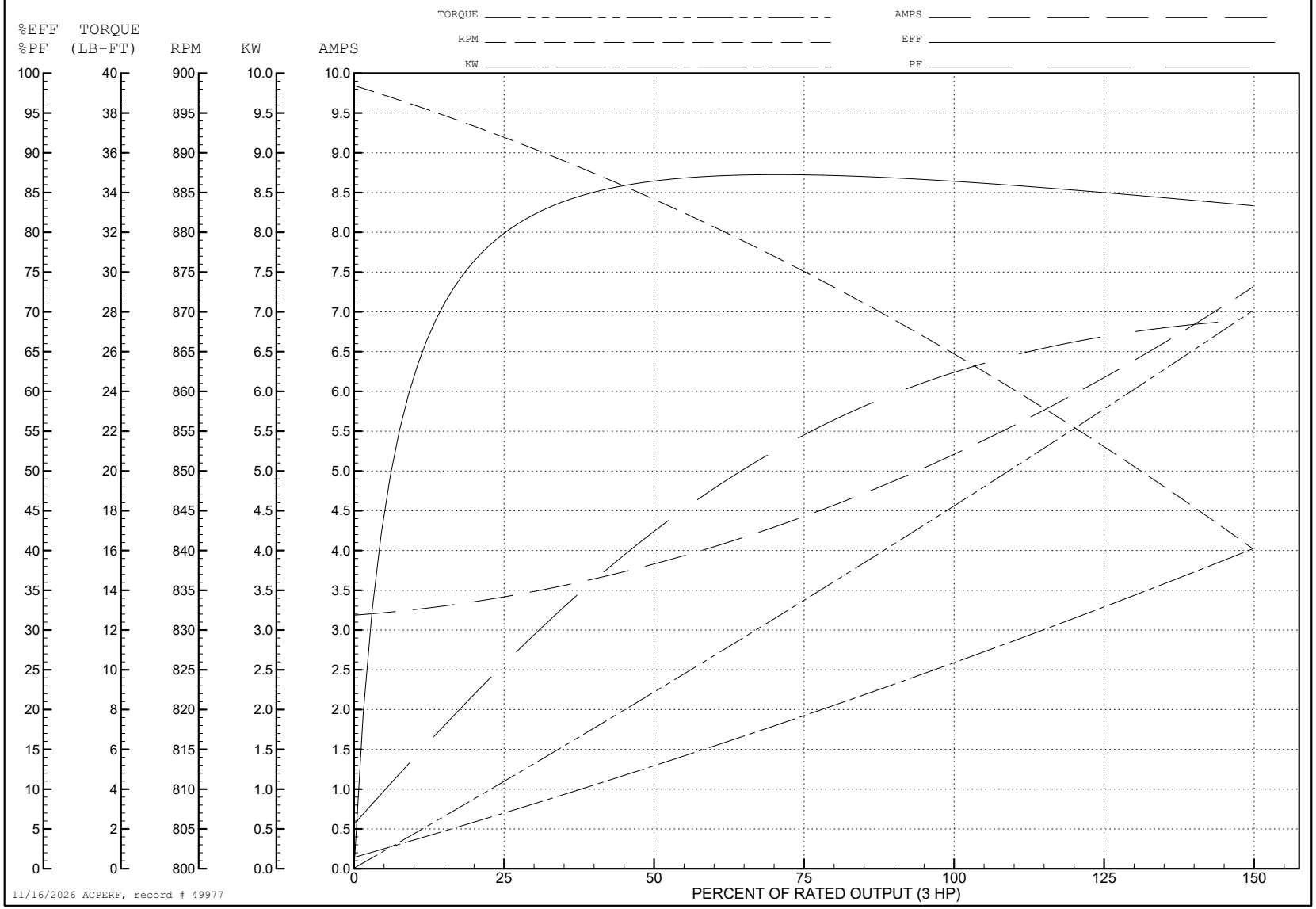
ABB Motors and Mechanical Inc.

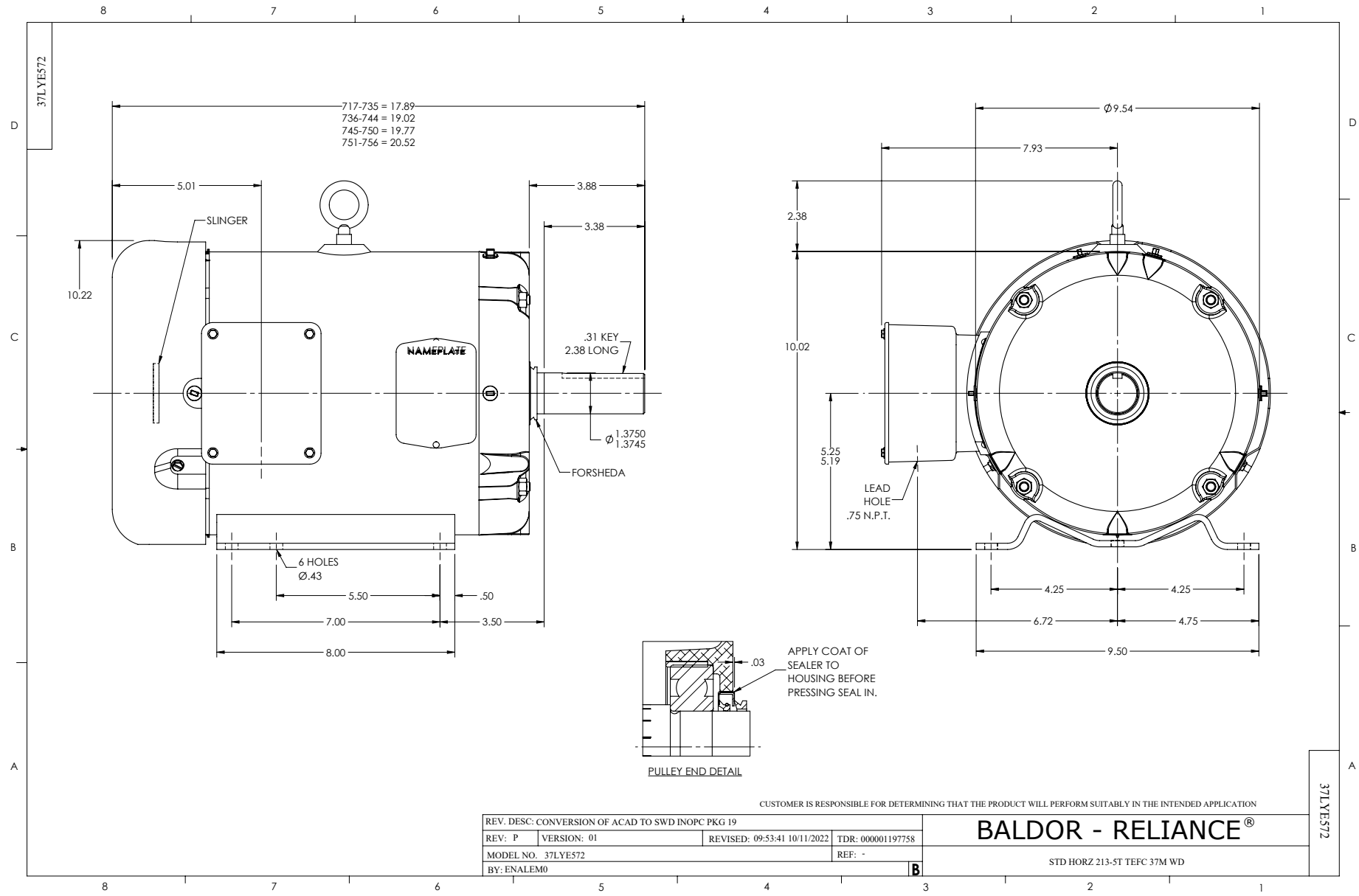
WINDING # 37WGT944

3 HP 3 PH 60 HZ 865 RPM 460 V 3744M

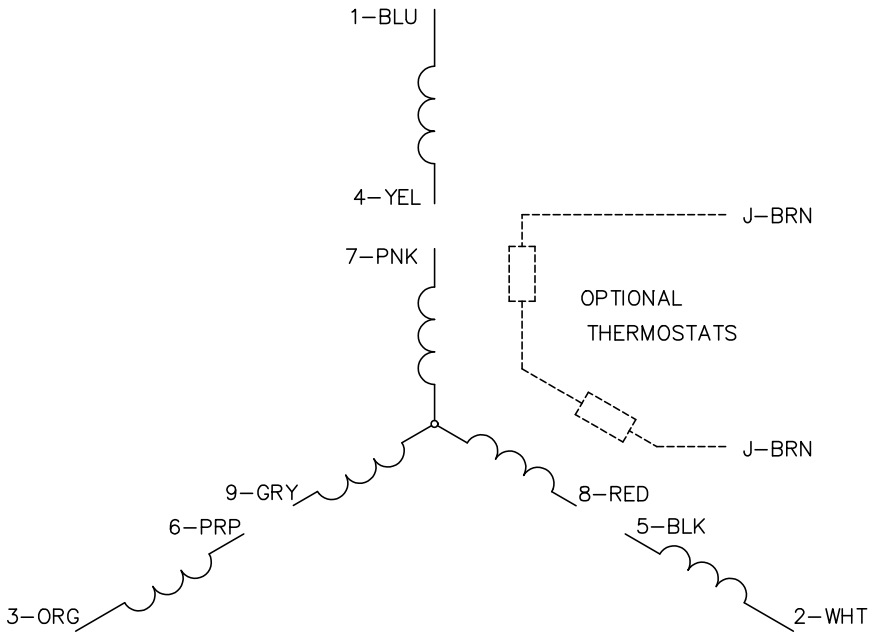
Typical performance - not guaranteed values.

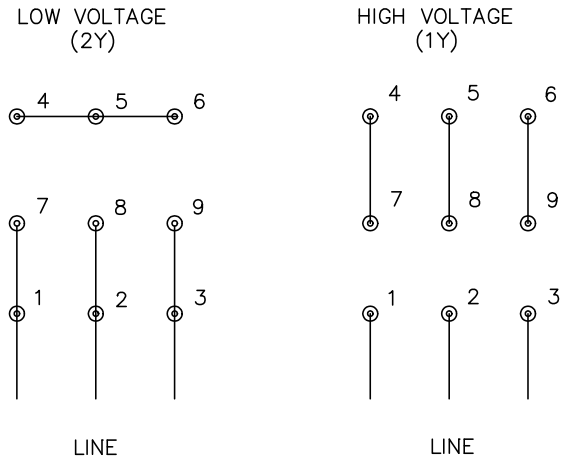
TORQUES(LB-FT): PO=49 PU=27.6 LR=30.6 LRA=25.6




37LYE572
717-735 = 17.89
736-744 = 19.02
745-750 = 19.77
751-756 = 20.52
5.01
3.88
3.38
SLINGER
10.22
NAMEPLATE
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
FORSHEDA
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.54
7.93
2.38
10.02
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4.25
4.25
6.72
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: P
VERSION: 01
REVISED: 09:53:41 10/11/2022
TDR: 000001197758
MODEL NO. 37LYE572
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5T TEFC 37M WD
37LYE572

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