ABB BALDOR RELIANCE

Customer information packet

EM3714T-9

10HP, 1770RPM, 3PH, 60HZ, 215T, 3760M, 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	460.0 V @ 60 HZ
	230.0 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	13.100 A @ 460.0 V
	26.200 A @ 230.0 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 Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	G
Type	AC
Mech. spec.	37N852
Base	
Status	PRD/A
Elec. spec.	37WGT851
Layout	37LYN852
Eff. date	05-13-2024
CD Diagram	CD0180
Poles	04
Leads	9#14
Proprietary	False
Created date	04-09-2016

Heater Indicator	No Heater
High Voltage Full Load Amps	13.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3760M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.02 IN
Power Factor	78
Product Family	WP Below Decks Marine Duty
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1267L									
CAT.NO.	EM3714T-9								
SPEC.	37N852T851G1								
HP	10								
VOLTS	230/460								
AMP	26.2/13.1								
RPM	1770								
FRAME	215T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	78						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
	MEETS DESIGN C TORQUE IP55								

AC Induction Motor Performance Data
Record # 58159
Typical performance - not guaranteed values

Winding: 37WGT851-R001	**Type:** 3760M	**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			25.6/12.8	**Breakdown Torque**	94.5 LB-FT
R.P.M.			1770	**Pull-up Torque**	54 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	91.1 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	90.1 A
Service Factor (S.F.)			1.15	**No-load Current**	6.23 A
NEMA Nom. Eff.	92.4	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.79976 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	78°C
				Locked-rotor Power Factor	37.8

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	60	72	78	81	82	80
Efficiency	87.5	91.8	92.4	92.1	91.3	90.2	91.6
Speed	1792.1	1784.7	1776.9	1767.8	1758.4	1747.7	1762
Line amperes	6.87	8.43	10.5	13.1	15.9	19	14.8

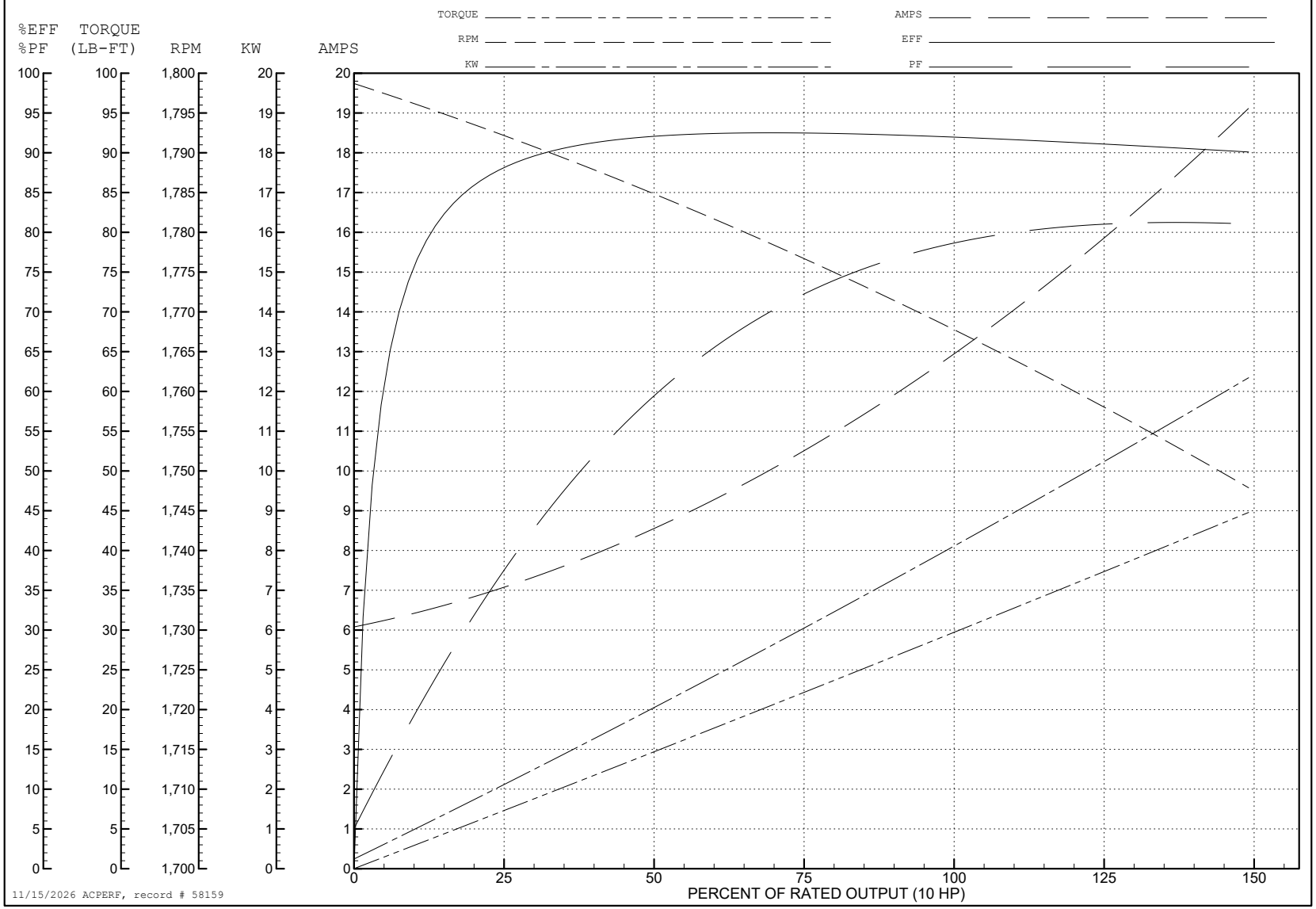
ABB Motors and Mechanical Inc.

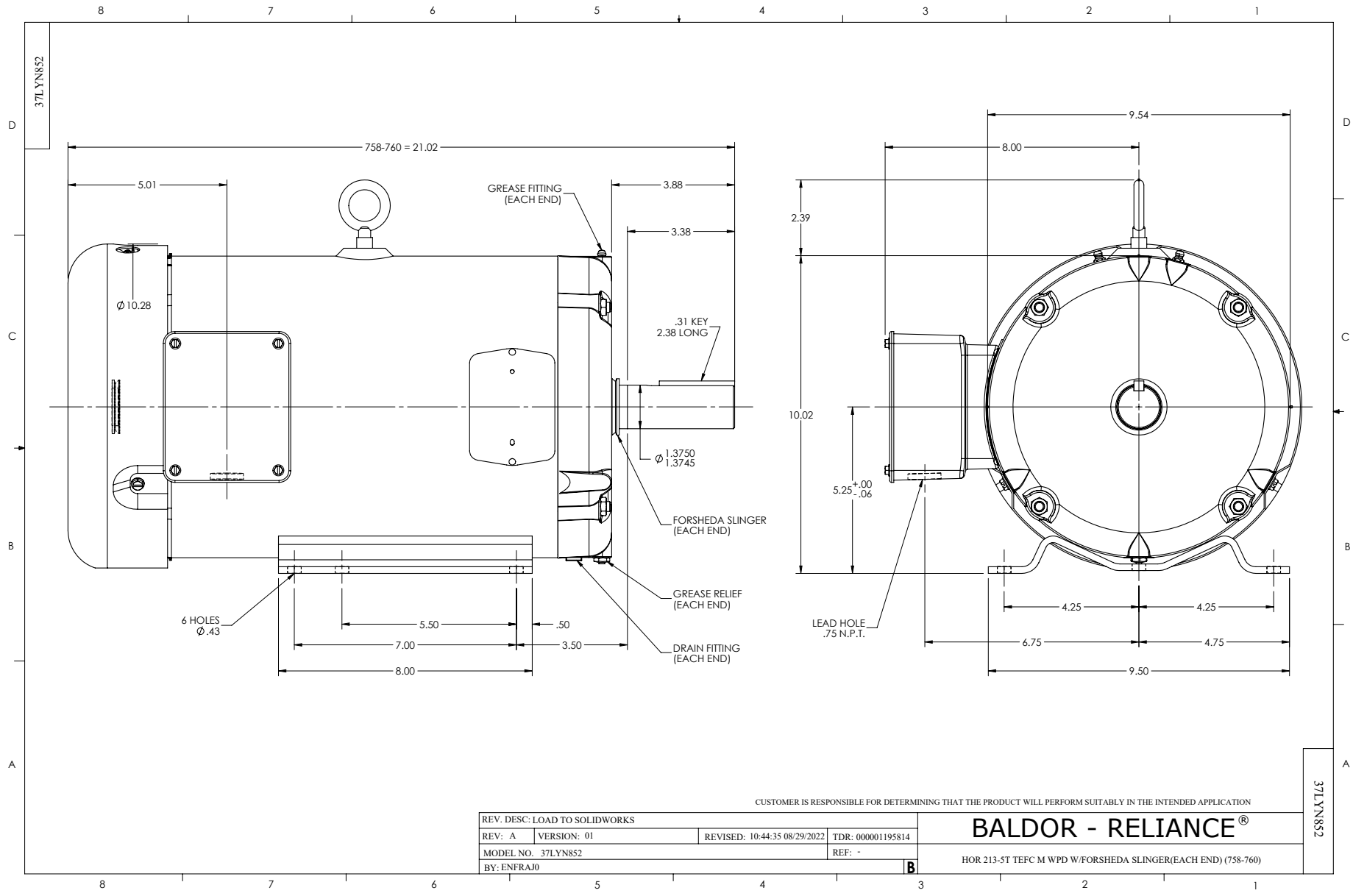
WINDING # 37WGT851

10 HP 3 PH 60 HZ 1770 RPM 460 V 3760M

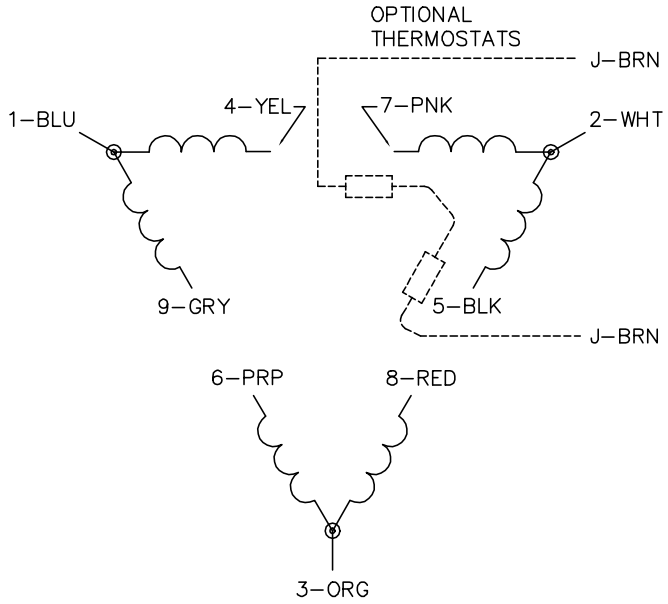
Typical performance - not guaranteed values.

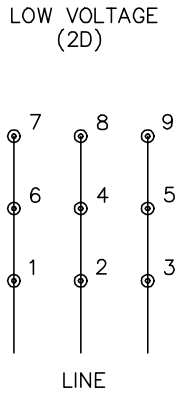
TORQUES(LB-FT): PO=94.5 PU=54 LR=91.1 LRA=90.1

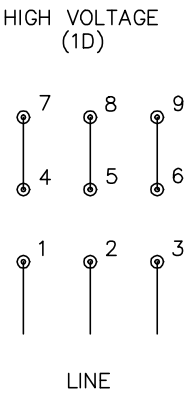



37LYN852
758-760 = 21.02
5.01
3.88
3.38
GREASE FITTING (EACH END)
Ø 10.28
.31 KEY 2.38 LONG
Ø 1.3750 1.3745
FORSHEDA SLINGER (EACH END)
GREASE RELIEF (EACH END)
DRAIN FITTING (EACH END)
6 HOLES Ø .43
5.50
.50
7.00
3.50
8.00
9.54
8.00
2.39
10.02
5.25 +.00 -.06
LEAD HOLE .75 N.P.T.
4.25
4.25
6.75
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 10:44:35 08/29/2022
TDR: 000001195814
MODEL NO. 37LYN852
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR 213-5T TEFC M WPD W/FORSHEDA SLINGER(EACH END) (758-760)
37LYN852

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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