ABB BALDOR RELIANCE

Customer information packet

M2513T-8

15HP, 1760RPM, 3PH, 60HZ, 254T, 3748M, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	254T
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	43.000 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	43.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	E
Type	AC
Mech. spec.	37F599
Base	
Status	NLA/A
Elec. spec.	37WGS115
Layout	37LYF599
Eff. date	03-08-2016
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	05-18-2010

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.75 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP1256L											
CAT.NO.	M2513T-8										
SPEC.	37F599S115H1										
HP	15										
VOLTS	200										
AMP	43										
RPM	1760										
FRAME	254T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	A	**CLASS**	F				
NEMA-NOM-EFF	91	**PF**	83								
RATING	40C AMB-CONT										
CC	010A										
DE	6309		**ODE**	6206							
ENCL	OPSB	**SN**									

Accessories

Part number	Description	Multiplier
37-1402	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 30656
Typical performance - not guaranteed values

Winding: 37WGS115-R003	**Type:** 3748M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			15	**Full Load Torque**	44.7 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			43	**Breakdown Torque**	172 LB-FT
R.P.M.			1760	**Pull-up Torque**	57.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	82.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	287 A
Service Factor (S.F.)			1.15	**No-load Current**	17.3 A
NEMA Nom. Eff.	91	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.143 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	36
				Rotor inertia	1.18 LB-FT2

Load Characteristics 200 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	78	83	84	83	84
Efficiency	87.2	91.1	91.5	90.8	89.7	88.2	90.1
Speed	1790	1781	1771	1760	1748	1735	1753
Line amperes	20.4	26.4	34.1	42.9	53.8	65.9	49.4

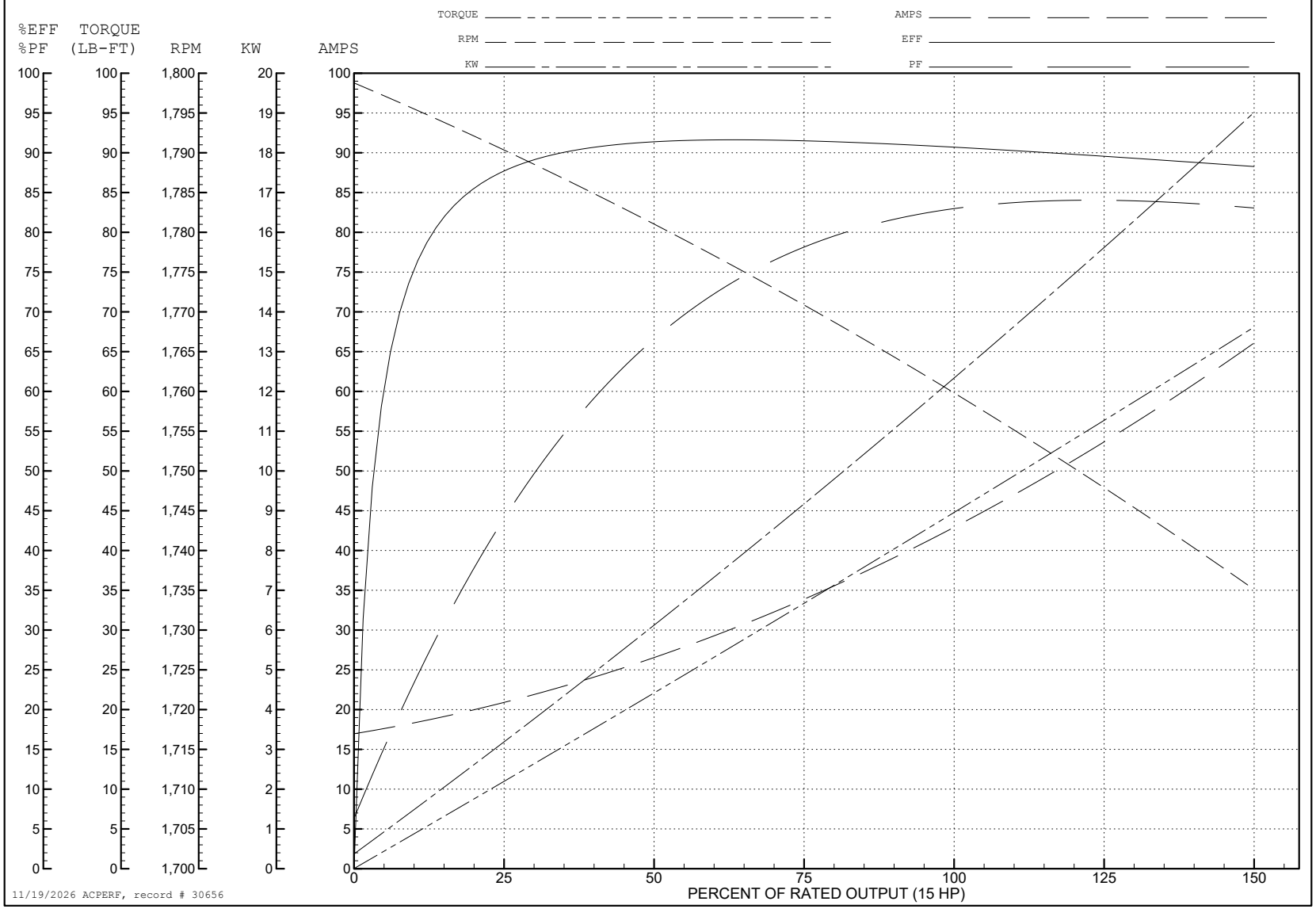
ABB Motors and Mechanical Inc.

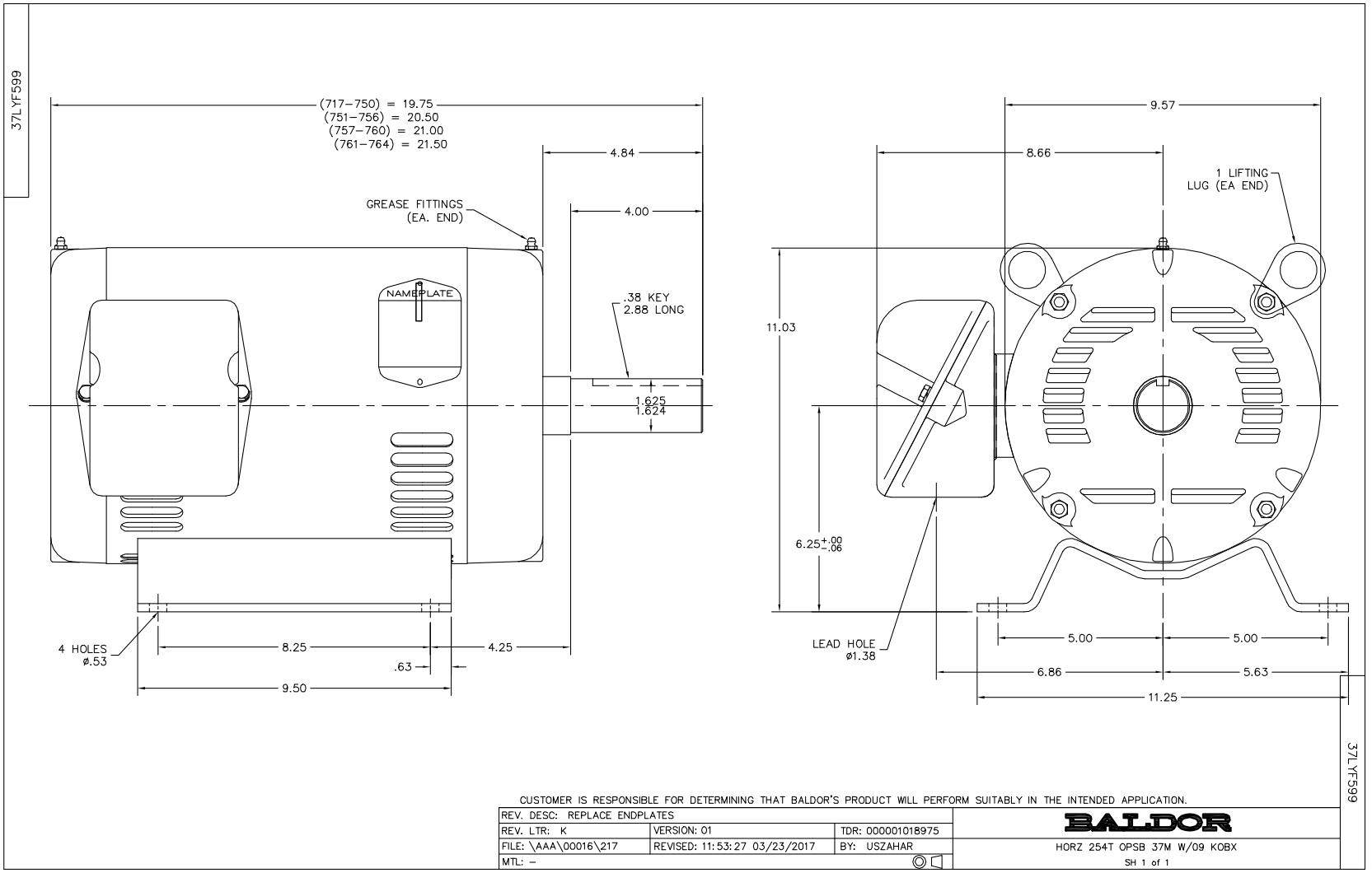
WINDING # 37WGS115

15 HP 3 PH 60 HZ 1760 RPM 200 V 3748M

Typical performance - not guaranteed values.

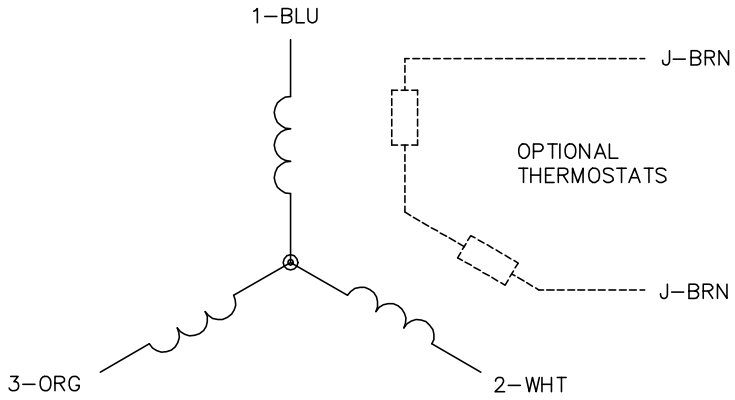
TORQUES(LB-FT): PO=172 PU=57.7 LR=82.5 LRA=287

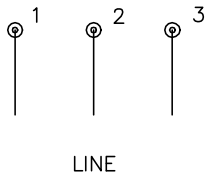



37LYF599
(717–750) = 19.75
(751–756) = 20.50
(757–760) = 21.00
(761–764) = 21.50
4.84
4.00
GREASE FITTINGS
(EA. END)
NAMEPLATE
.38 KEY
2.88 LONG
1.625
1.624
4 HOLES
ø.53
8.25
4.25
.63
9.50
9.57
8.66
1 LIFTING
LUG (EA END)
11.03
6.25 +.00 −.06
LEAD HOLE
ø1.38
5.00
5.00
6.86
5.63
11.25
37LYF599
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REPLACE ENDPLATES
REV. LTR: K
VERSION: 01
TDR: 000001018975
FILE: \AAA\00016\217
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BY: USZAHAR
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BALDOR
HORZ 254T OPSB 37M W/09 KOBX
SH 1 of 1

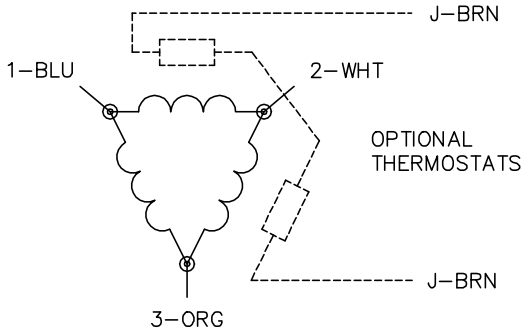
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

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REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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