ABB BALDOR RELIANCE

Customer information packet

CEM3313T-G

10HP, 1770RPM, 3PH, 60HZ, 215TC, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
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
	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	25.000 A @ 230.0 V
	12.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGT853
Layout	37LYK447
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	03-08-2020

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.19 IN
Power Factor	82
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
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

NP3553LUA									
CAT.NO.	CEM3313T-G								
SPEC.	37-0000822								
HP	10								
VOLTS	230/460								
AMPS	25/12.5								
RPM	1770								
FRAME	215TC	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	H	**DES**	B	**CLASS**	H		
NEMA NOM. EFF	91.7	**PF**	82						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	**SN**							
DE	6307	**ODE**	6206						
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 7.5HP 190/380V 23.4/11.7A								SF1.0

AC Induction Motor Performance Data
Record # 35789
Typical performance - not guaranteed values

Winding: 37WGT853-R003	**Type:** 3742M	**Enclosure:** OPSB

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**	87.58 LB-FT
R.P.M.		1770	**Pull-up Torque**	44.18 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	51.57 LB-FT
NEMA Design Code	B **KVA Code**	H	**Starting Current**	86.72 A
Service Factor (S.F.)		1.15	**No-load Current**	4.91 A
NEMA Nom. Eff.	91.7 **Power Factor**	82	**Line-line Res. @ 25ºC**	1.18 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps			**Temp. Rise @ S.F. Load**	43°C
			Locked-rotor Power Factor	37.9
			Rotor inertia	1.03 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	70	80	84	86	86	83
Efficiency	87.7	91.8	92.2	91.7	90.8	89.5	91.3
Speed	1793	1785	1777	1769	1759	1749	1763
Line amperes	5.6	7.31	9.53	12.15	15	18.24	14.2

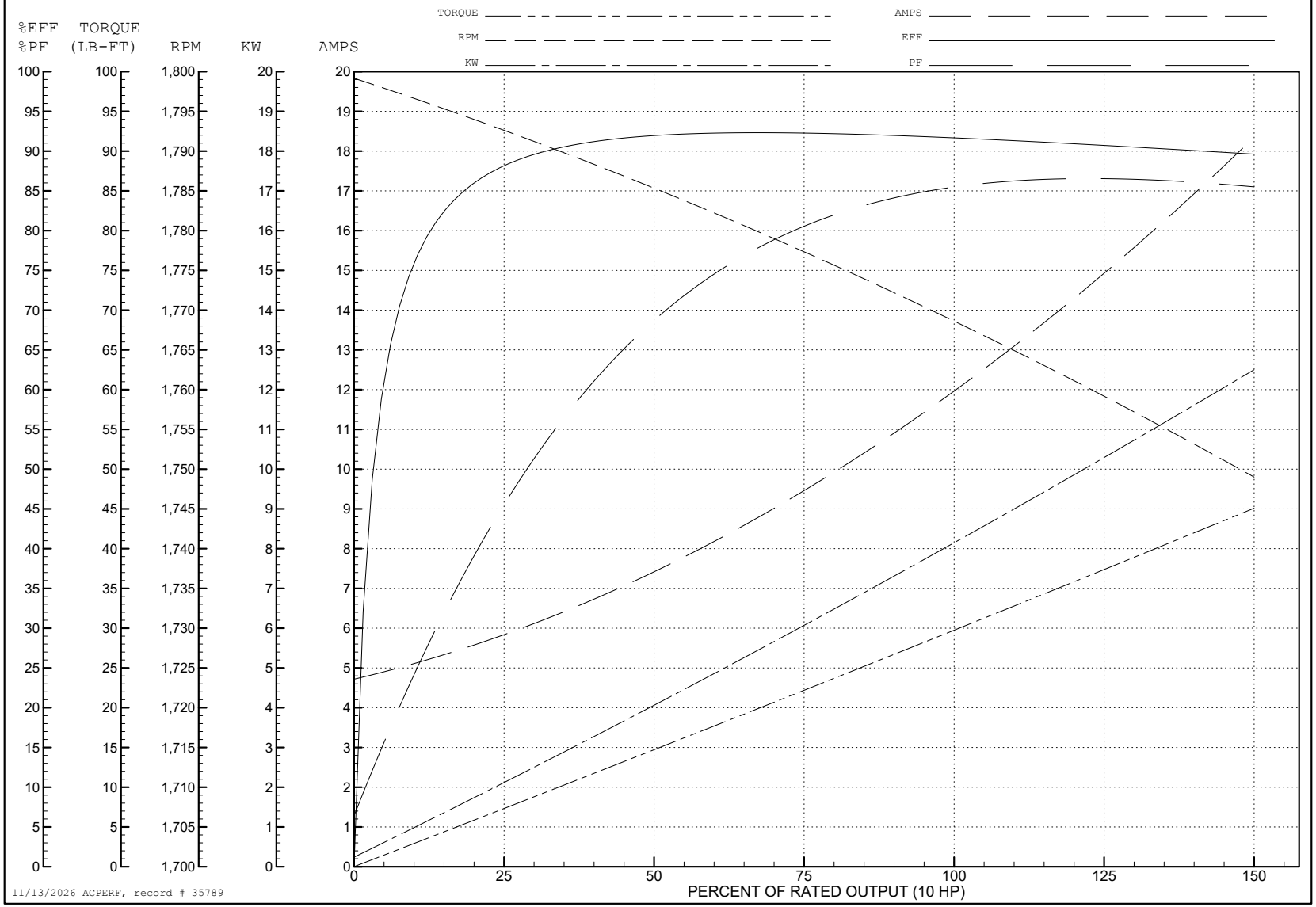
ABB Motors and Mechanical Inc.

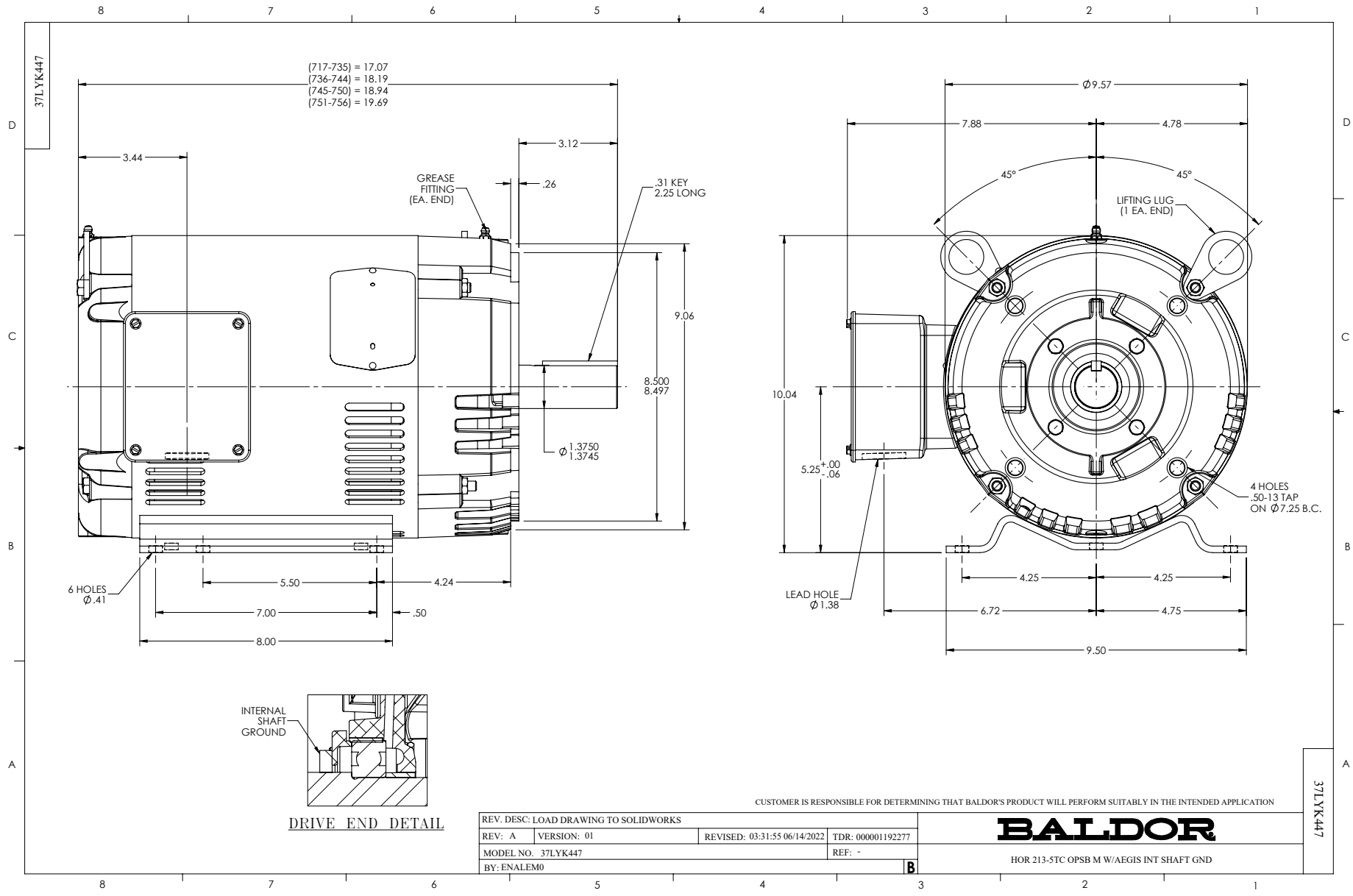
WINDING # 37WGT853

10 HP 3 PH 60 HZ 1770 RPM 460 V 3742M

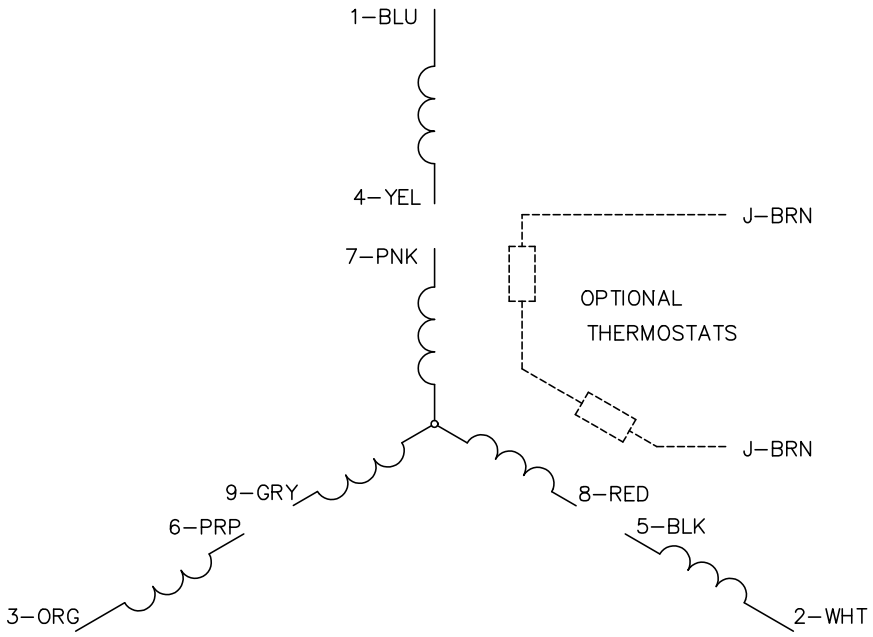
Typical performance - not guaranteed values.

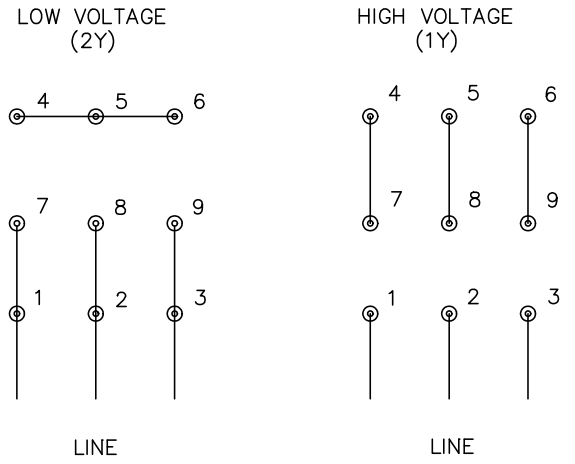
TORQUES(LB-FT): PO=87.58 PU=44.18 LR=51.57 LRA=86.72




37LYK447
(717-735) = 17.07
(736-744) = 18.19
(745-750) = 18.94
(751-756) = 19.69
3.44
3.12
.26
GREASE FITTING (EA. END)
.31 KEY 2.25 LONG
9.06
8.500
8.497
Ø 1.3750
1.3745
6 HOLES Ø .41
5.50
4.24
7.00
.50
8.00
Ø9.57
7.88
4.78
45°
45°
LIFTING LUG (1 EA. END)
10.04
5.25 +.00 -.06
4 HOLES .50-13 TAP ON Ø7.25 B.C.
LEAD HOLE Ø 1.38
4.25
4.25
6.72
4.75
9.50
INTERNAL SHAFT GROUND
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 03:31:55 06/14/2022
TDR: 000001192277
MODEL NO. 37LYK447
REF: -
BY: ENALEM0
B
BALDOR
HOR 213-5TC OPSB M W/AEGIS INT SHAFT GND
37LYK447

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