ABB BALDOR RELIANCE

Customer information packet

CESSWDM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3740M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 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	19.000 A @ 230.0 V
	9.500 A @ 460.0 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	AD
Type	AC
Mech. spec.	37J639
Base	
Status	PRD/A
Elec. spec.	37WGT864
Layout	37LYJ639
Eff. date	12-18-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	07-20-2006

Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.07 IN
Power Factor	81
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
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	No 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

NP1953C01								
CAT.NO.	CESSWDM3710T							
SPEC.	37J639T864G1							
HP	7.5							
VOLTS	230/460							
AMP	19/9.5							
RPM	1770							
FRAME	213TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	J	**DES**	A	**CLASS**	F	
NEMA-NOM-EFF	91.7	**PF**	81					
RATING	40C AMB-CONT							
CC	010A	**USABLE AT 208V**				N/A		
DE	6307	**ODE**	6206					
ENCL	TEFC	**SN**						
	3:1 CT/10:1 VT							

AC Induction Motor Performance Data
Record # 17300
Typical performance - not guaranteed values

Winding: 37WGT864-R001	**Type:** 3740M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		7.5	**Full Load Torque**	22.36 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		19.0/9.5	**Breakdown Torque**	73.15 LB-FT
R.P.M.		1770	**Pull-up Torque**	39.79 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	47.81 LB-FT
NEMA Design Code	A **KVA Code**	J	**Starting Current**	74.95 A
Service Factor (S.F.)		1.15	**No-load Current**	4.4 A
NEMA Nom. Eff.	91.7 **Power Factor**	81	**Line-line Res. @ 25ºC**	1.27 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps			**Temp. Rise @ S.F. Load**	85°C
			Locked-rotor Power Factor	36.4
			Rotor inertia	0.984 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	81	83	85	82
Efficiency	86.6	90.9	92	91.9	90.8	89.7	91.4
Speed	1793	1786	1779	1771	1761	1751	1764
Line amperes	4.88	6.02	7.67	9.52	11.62	13.91	10.7

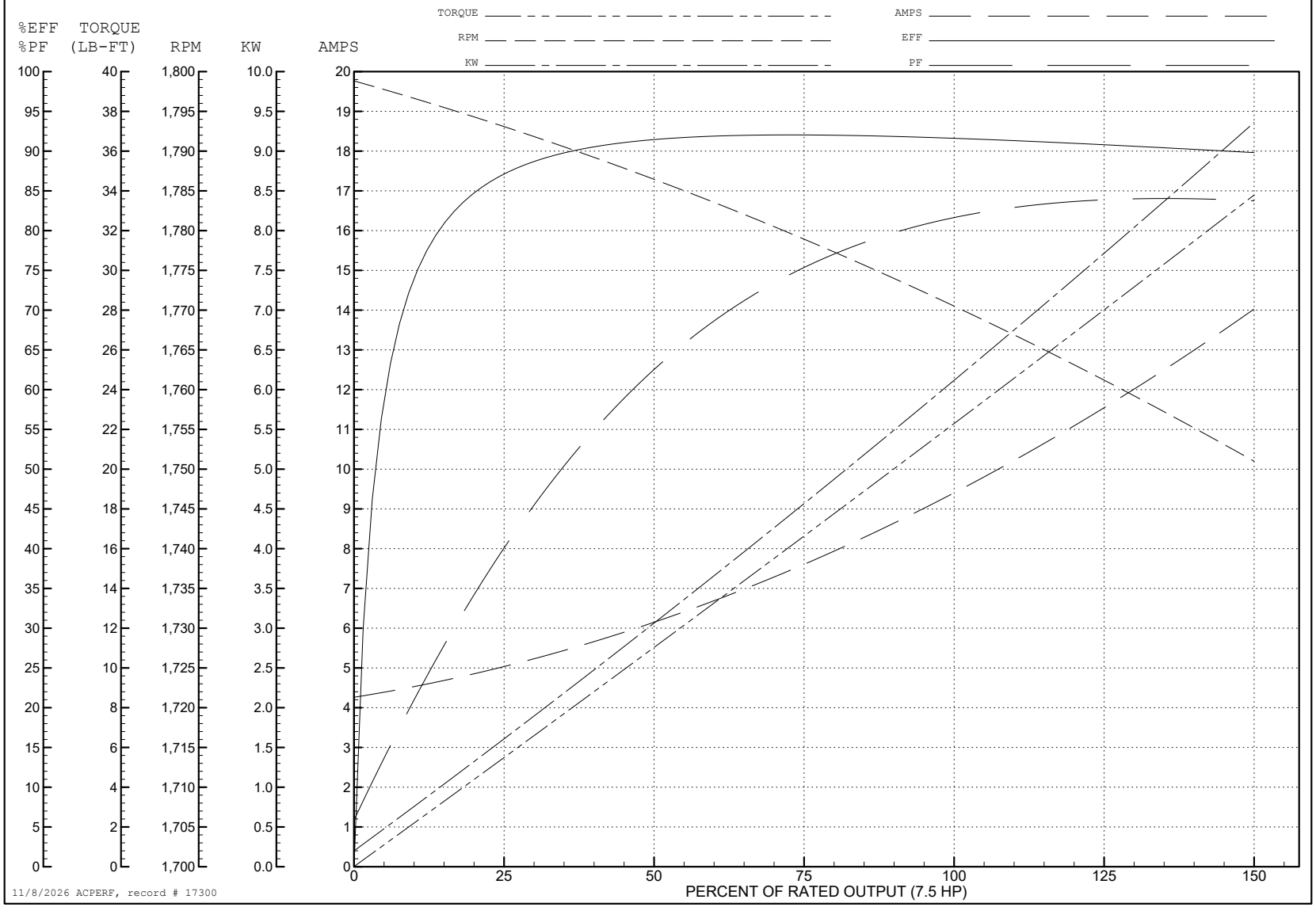
ABB Motors and Mechanical Inc.

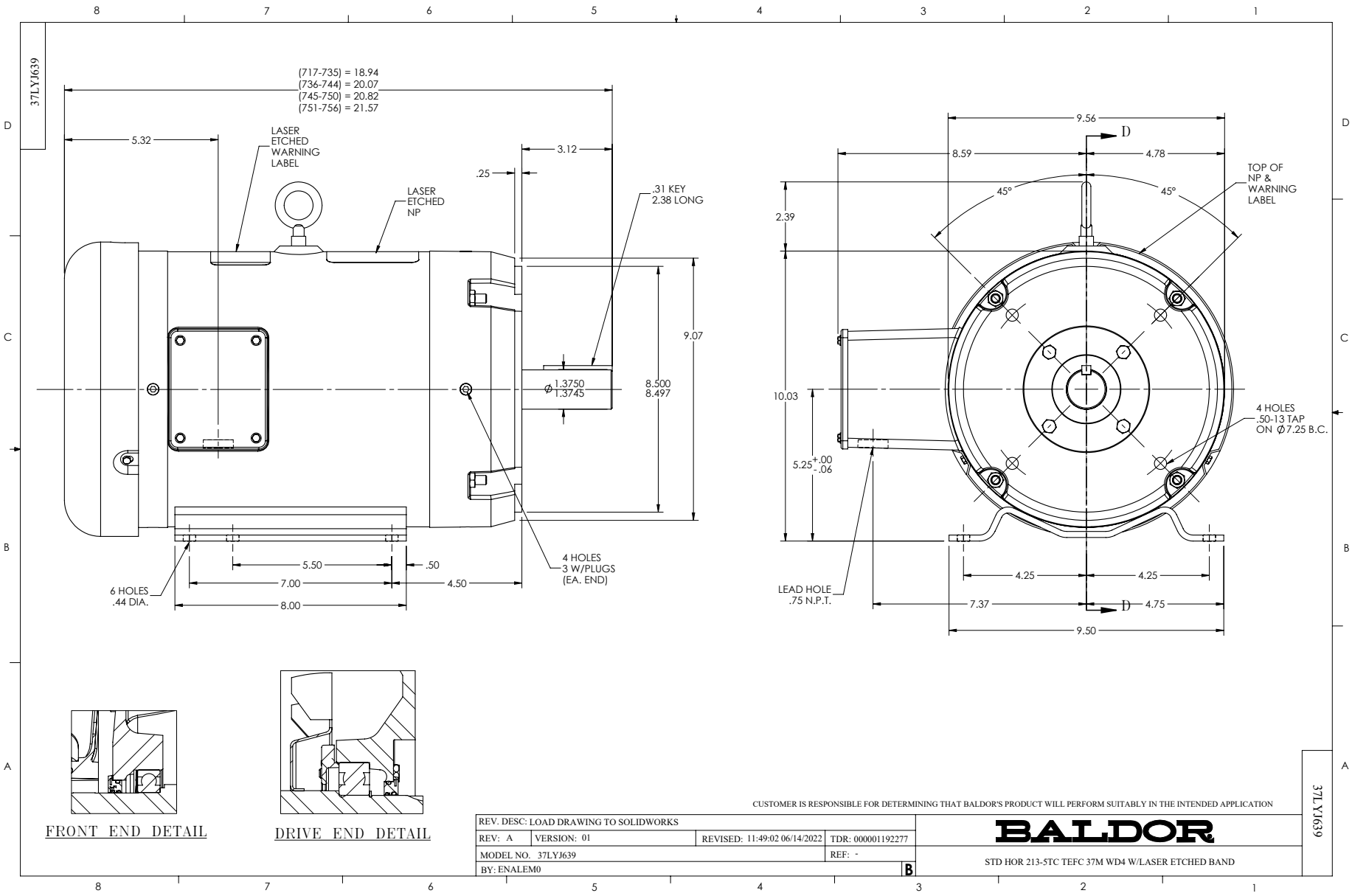
WINDING # 37WGT864

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3740M

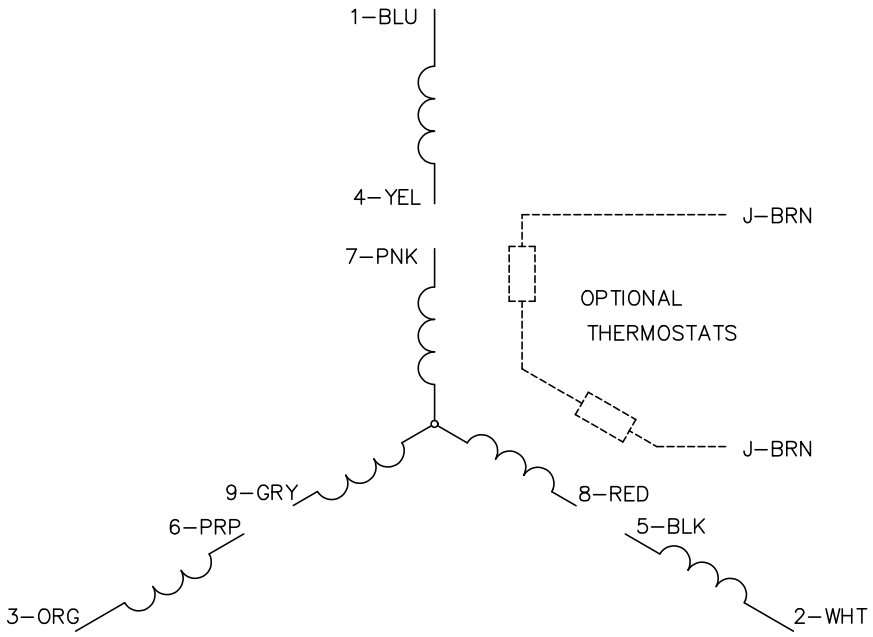
Typical performance - not guaranteed values.

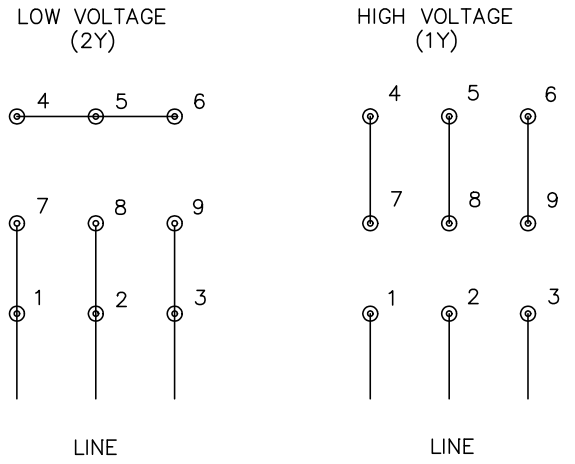
TORQUES(LB-FT): PO=73.15 PU=39.79 LR=47.81 LRA=74.95




37LYJ639
(717-735) = 18.94
(736-744) = 20.07
(745-750) = 20.82
(751-756) = 21.57
5.32
LASER ETCHED WARNING LABEL
LASER ETCHED NP
3.12
.25
.31 KEY 2.38 LONG
9.07
8.500
8.497
Ø1.3750
1.3745
4 HOLES 3 W/PLUGS (EA. END)
6 HOLES .44 DIA.
5.50
.50
7.00
4.50
8.00
9.56
8.59
4.78
45°
45°
TOP OF NP & WARNING LABEL
2.39
10.03
4 HOLES .50-13 TAP ON Ø7.25 B.C.
5.25 +.00 -.06
LEAD HOLE .75 N.P.T.
4.25
4.25
7.37
4.75
9.50
FRONT END DETAIL
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: 11:49:02 06/14/2022 TDR: 000001192277
MODEL NO. 37LYJ639 REF: -
BY: ENALEM0 B
BALDOR
STD HOR 213-5TC TEFC 37M WD4 W/LASER ETCHED BAND
37LYJ639

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