ABB BALDOR RELIANCE

Customer information packet

CESSWDM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3756M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215TC
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	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
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	12.500 A @ 460.0 V
	25.000 A @ 230.0 V
	26.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	12.5 a
Insulation Class	F

Part Detail

Revision	AB
Type	AC
Mech. spec.	37J639
Base	
Status	PRD/A
Elec. spec.	37WGT857
Layout	37LYJ639
Eff. date	12-18-2024
CD Diagram	CD0180
Poles	04
Leads	9#14
Proprietary	False
Created date	07-19-2006

Inverter Code	Not Inverter
KVA Code	K
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	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.66 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
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

NP1953C02								
CAT.NO.	CESSWDM3714T							
SPEC.	37J639T857G1							
HP	10							
VOLTS	230/460							
AMP	25/12.5							
RPM	1770							
FRAME	215TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	92.4	**PF**	81					
RATING	40C AMB-CONT							
CC	010A	**USABLE AT 208V**				N/A		
DE	6307	**ODE**	6206					
ENCL	TEFC	**SN**						
	4:1CT 20:1VT							

AC Induction Motor Performance Data
Record # 35792
Typical performance - not guaranteed values

Winding: 37WGT857-R004	**Type:** 3756M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	29.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			25/12.5	**Breakdown Torque**	102 LB-FT
R.P.M.			1770	**Pull-up Torque**	53.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	74.2 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	105 A
Service Factor (S.F.)			1.15	**No-load Current**	5.44 A
NEMA Nom. Eff.	92.4	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.799 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	76°C
S.F. Amps				**Temp. Rise @ S.F. Load**	93°C
				Locked-rotor Power Factor	32
				Rotor inertia	1.38 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	65	76	81	83	84	82
Efficiency	88	92.6	93.3	93	92.4	91.5	92.6
Speed	1793	1786	1778	1770	1762	1752	1765
Line amperes	6.18	7.79	10	12.5	15.3	18.3	14.2

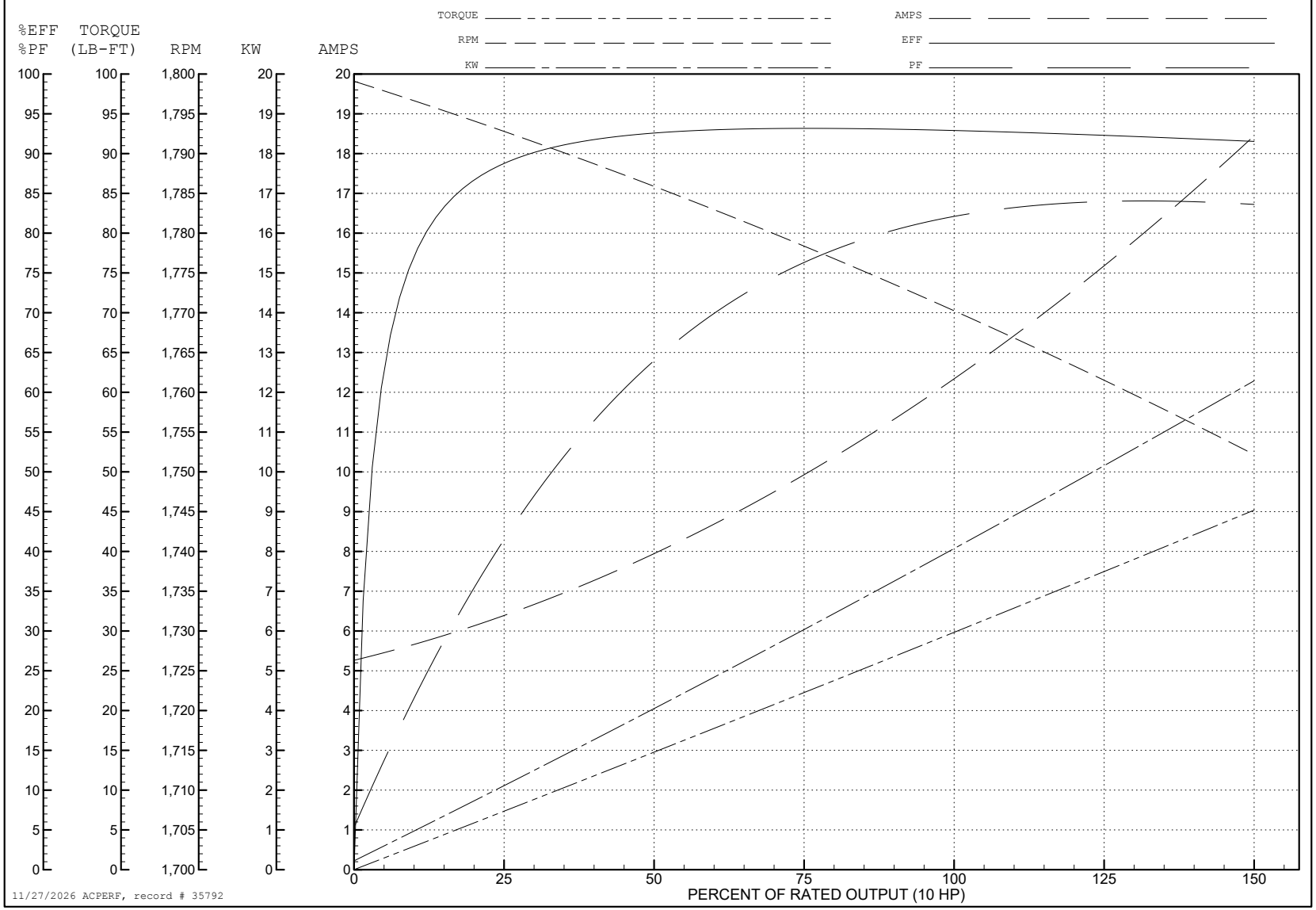
ABB Motors and Mechanical Inc.

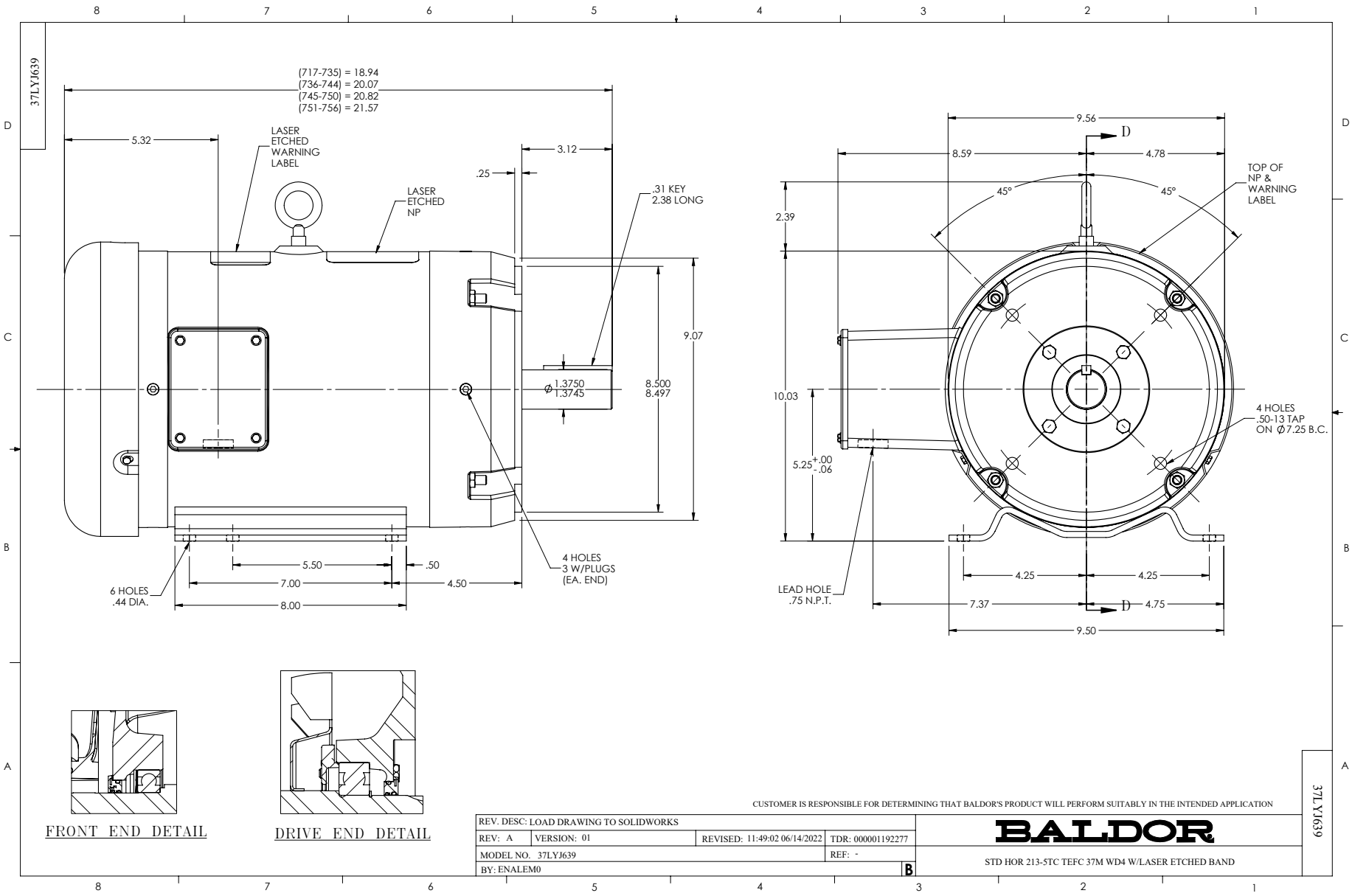
WINDING # 37WGT857

10 HP 3 PH 60 HZ 1770 RPM 460 V 3756M

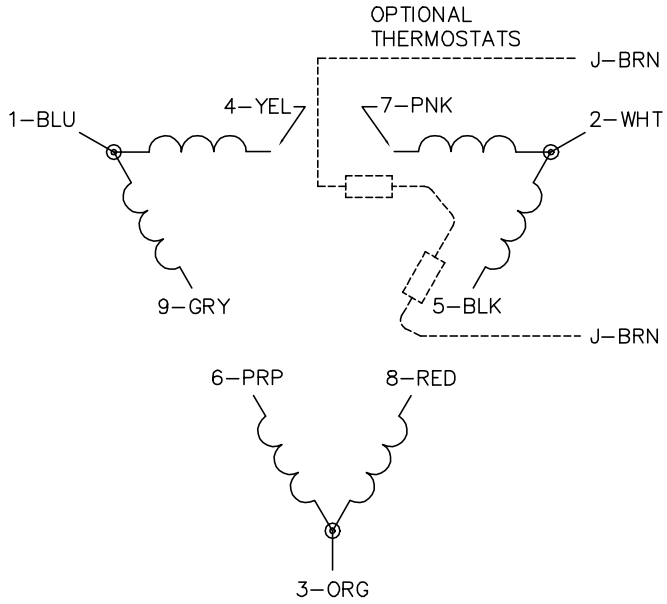
Typical performance - not guaranteed values.

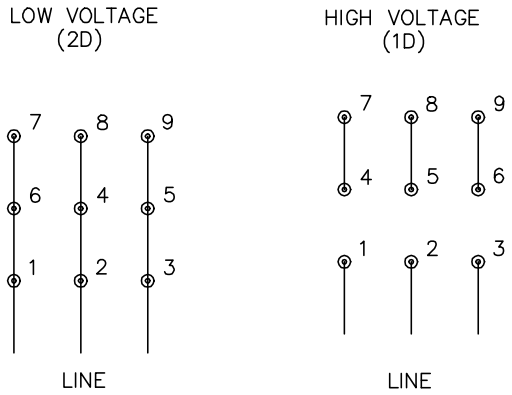
TORQUES(LB-FT): PO=102 PU=53.6 LR=74.2 LRA=105




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

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		
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FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1