ABB BALDOR RELIANCE

Customer information packet

CESSWDM3713T

15HP, 3500RPM, 3PH, 60HZ, 215TC, 3756M, TEFC,
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
	NEMA PREMIUM
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	37.000 A @ 208.0 V
	34.000 A @ 230.0 V
	17.000 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	17.0 a

Part Detail

Revision	F
Type	AC
Mech. spec.	37J639
Base	
Status	PRD/A
Elec. spec.	37WGR555
Layout	37LYJ639
Eff. date	12-18-2024
CD Diagram	CD0180
Poles	02
Leads	9#14
Proprietary	False
Created date	01-06-2021

Insulation Class	H
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	2
Overall Length	21.66 IN
Power Factor	90
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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.	CESSWDM3713T							
SPEC.	37J639R555G1							
HP	15							
VOLTS	230/460							
AMP	34/17							
RPM	3500							
FRAME	215TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	A	**CLASS**	H	
NEMA-NOM-EFF	91.7	**PF**	90					
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 # 43530
Typical performance - not guaranteed values

Winding: 37WGR555-R001	**Type:** 3756M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			34/17	**Breakdown Torque**	129 LB-FT
R.P.M.			3500	**Pull-up Torque**	62.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	81.4 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	187 A
Service Factor (S.F.)			1.15	**No-load Current**	5.43 A
NEMA Nom. Eff.	91.7	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.409 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps				**Temp. Rise @ S.F. Load**	96°C
				Rotor inertia	0.512 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	82	87	90	92	93	91
Efficiency	88	91.7	92.2	91.8	91.1	90	91.4
Speed	3576	3551	3525	3499	3470	3437	3482
Line amperes	6.71	9.36	13.1	16.9	20.8	25.3	19.2

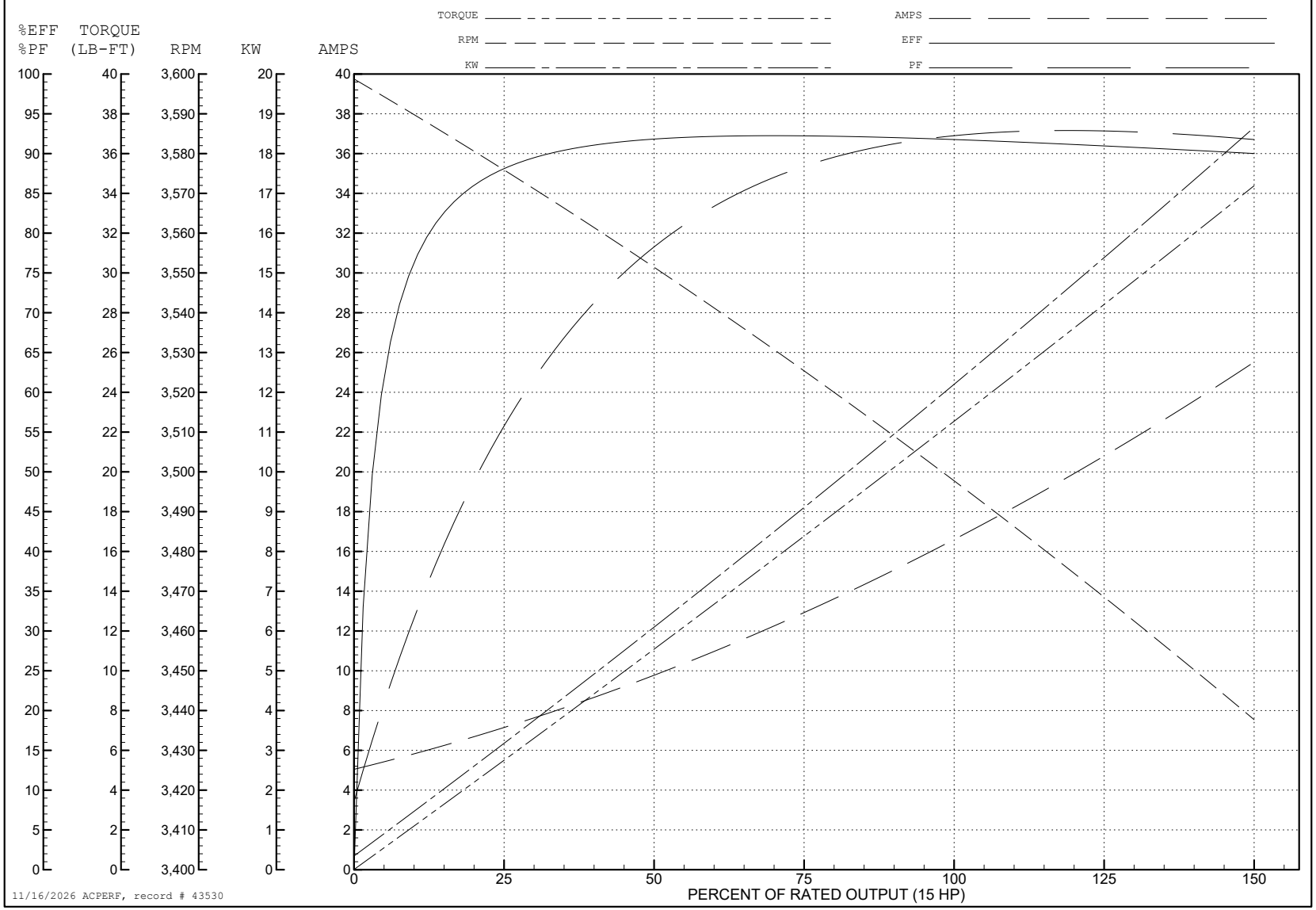
ABB Motors and Mechanical Inc.

WINDING # 37WGR555

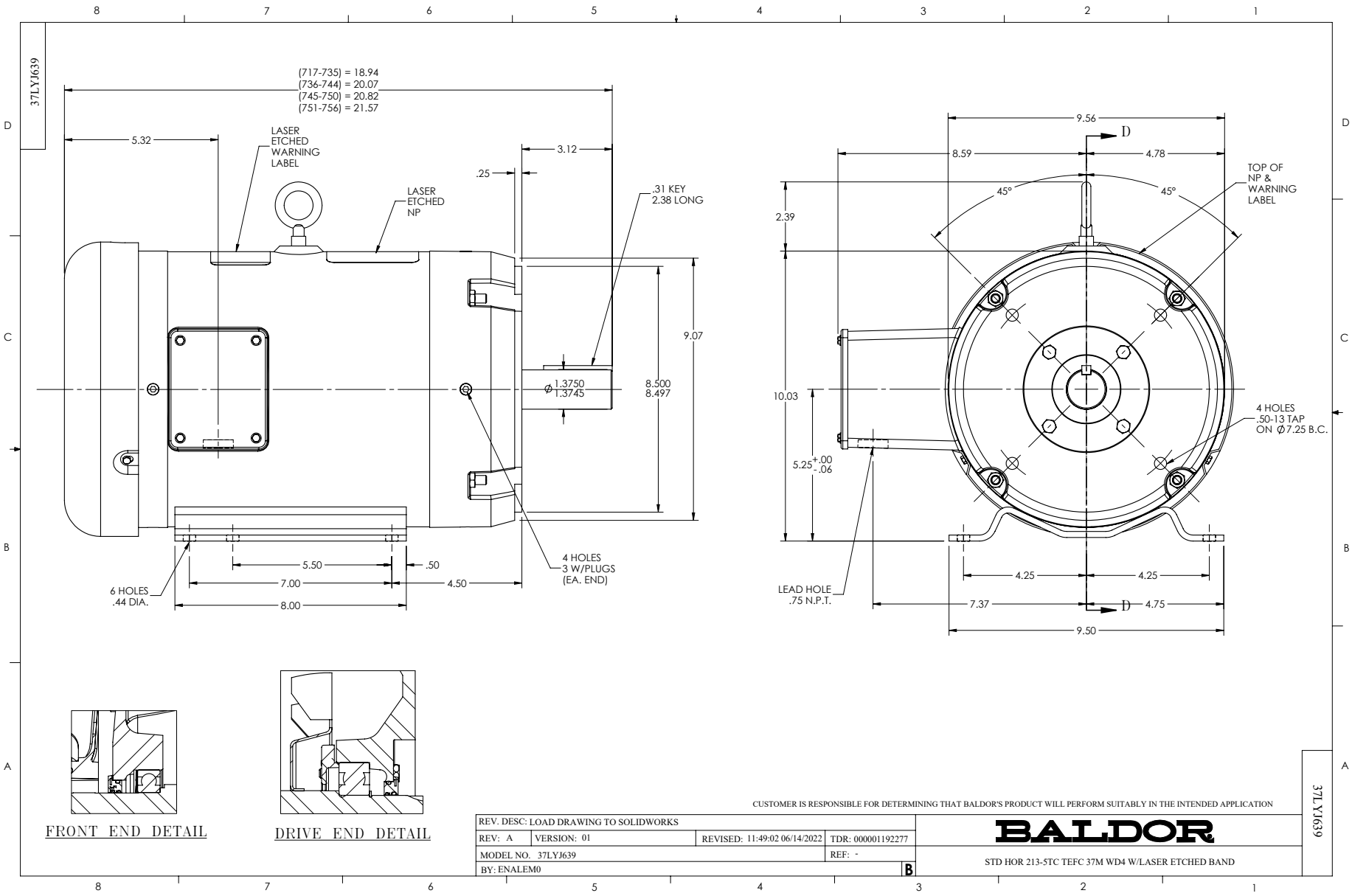
15 HP 3 PH 60 HZ 3500 RPM 460 V 3756M

Typical performance - not guaranteed values.

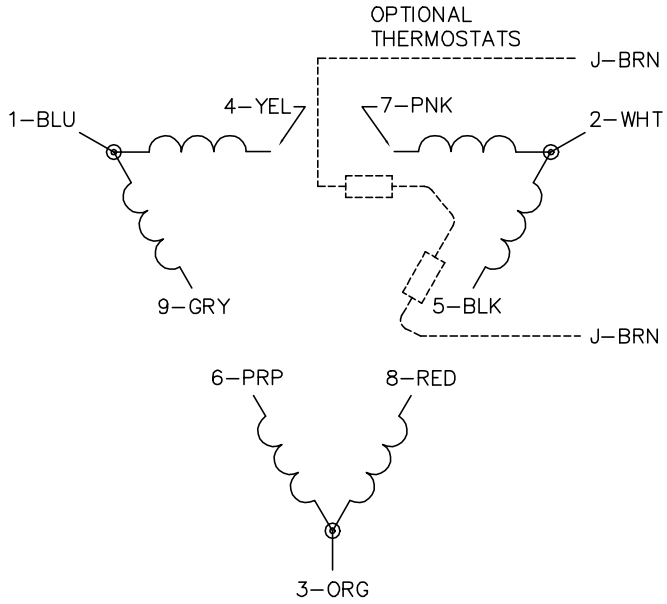
TORQUES(LB-FT): PO=129 PU=62.1 LR=81.4 LRA=187

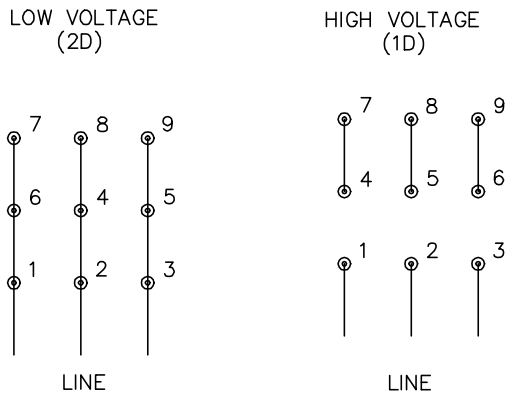


11/16/2026 ACPERF, record # 43530


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		
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

SH 1 of 1