

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3711T-5

0HP, 3500RPM, 3PH, 60HZ, 215TC, 3744M, TEFC, F

Class - None

Division - Not Applicable

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	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	8.500 A @ 575.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	8.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	N
Type	AC
Mech. spec.	37J639
Base	
Status	PRD/A
Elec. spec.	37WGR305
Layout	37LYJ639
Eff. date	12-18-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	06-08-2012

Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.16 IN
Power Factor	94
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	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

NP1953C05											
CAT.NO.	CESSWDM3711T-5										
SPEC.	37J639R305G1										
HP	10										
VOLTS	575										
AMP	8.5										
RPM	3500										
FRAME	215TC				HZ		60		PH		3
SER.F.	1.15		CODE		K	DES		A	CLASS		F
NEMA-NOM-EFF	91.7		PF		94						
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 # 38762

Typical performance - not guaranteed values

Winding: 37WGR305-R001			Type: 3744M		Enclosure: TEFC			
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10		Full Load Torque		14.6 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		8.5		Breakdown Torque		78.1 LB-FT		
R.P.M.		3500		Pull-up Torque		37.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		47.1 LB-FT		
NEMA Design Code		A	KVA Code	K	Starting Current		88.4 A	
Service Factor (S.F.)		1.15		No-load Current		2.56 A		
NEMA Nom. Eff.		91.7	Power Factor	94	Line-line Res. @ 25°C		1.1 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		56°C
S.F. Amps						Temp. Rise @ S.F. Load		69°C

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	84	92	94	95	96	95
Efficiency	88.3	92	92.8	91.8	90.5	89.5	91
Speed	3577	3554	3530	3504	3475	3443	3487
Line amperes	3.19	4.69	6.41	8.44	10.8	13.1	9.86

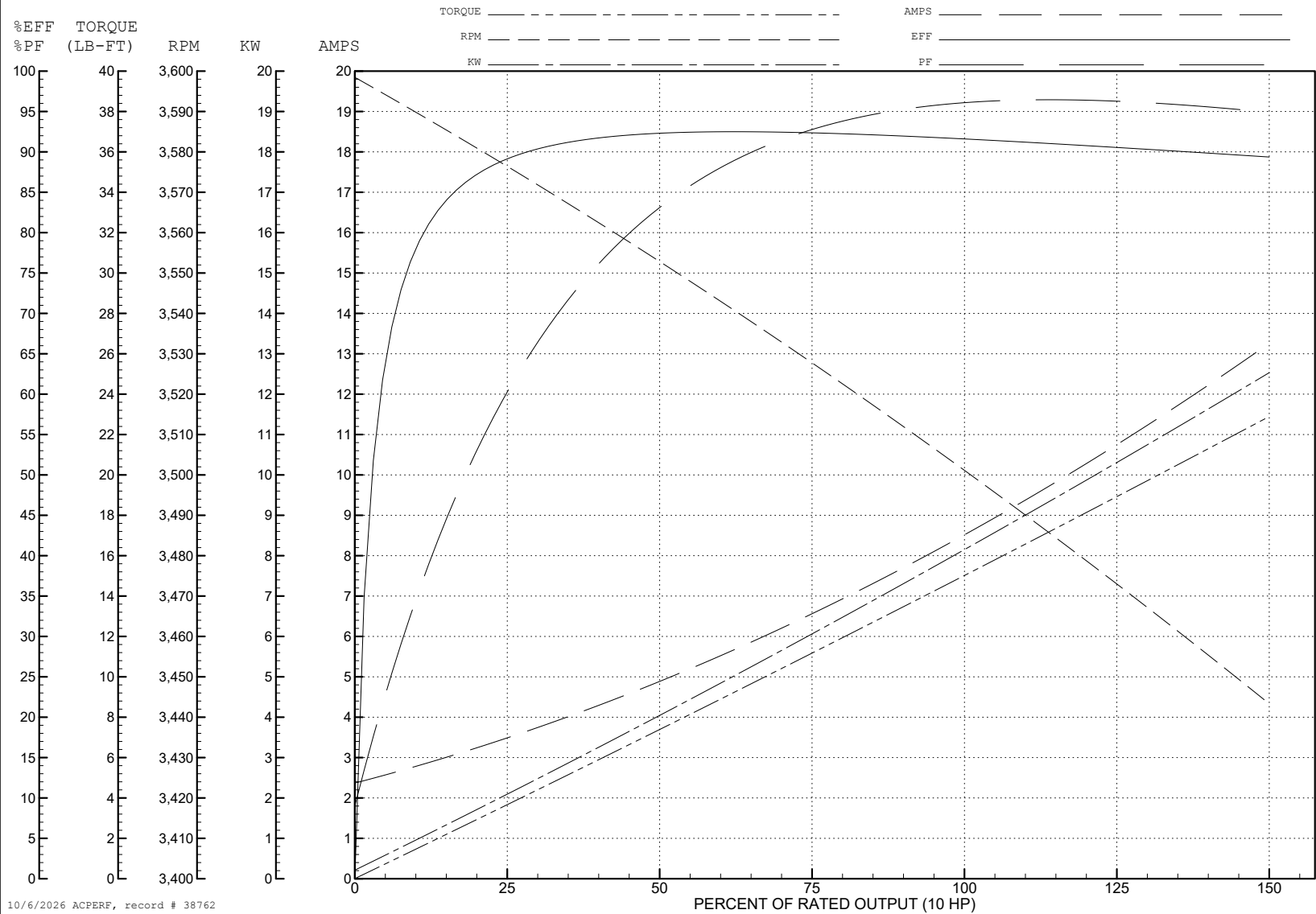
ABB Motors and Mechanical Inc.

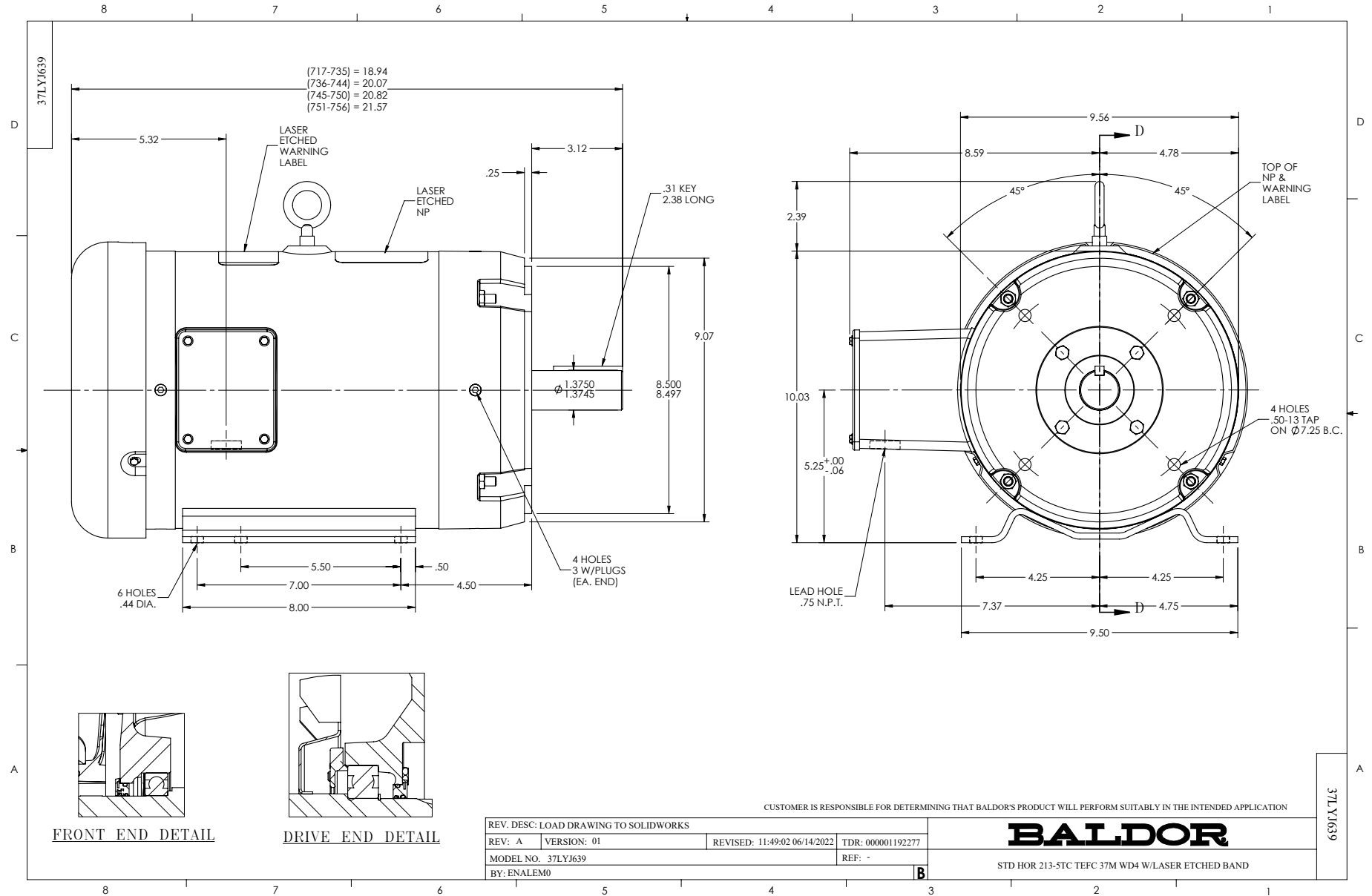
WINDING # 37WGR305

Typical performance - not guaranteed values.

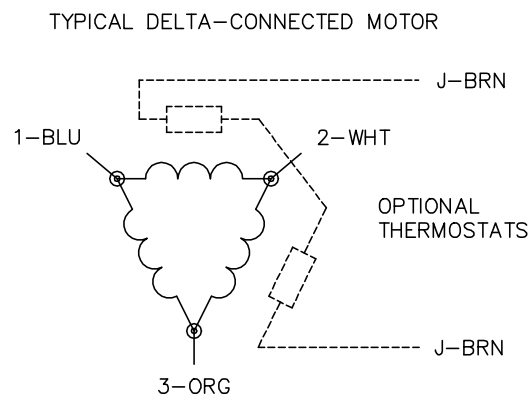
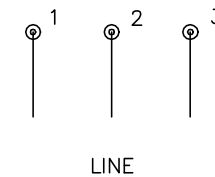
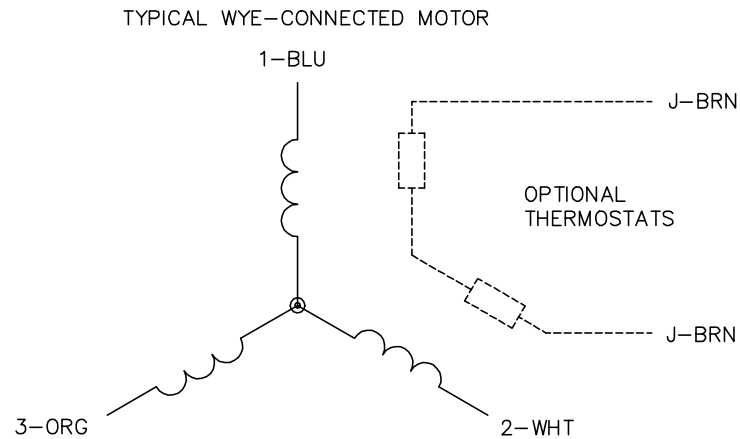
10 HP 3 PH 60 HZ 3500 RPM 575 V 3744M

TORQUES (LB-FT) : PO=78.1 PU=37.3 LR=47.1 LRA=88.4





CD0006



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

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

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

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