



Customer information packet

CESSWDM3710T-5

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3738M, TEFC

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
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	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	7.600 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	7.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing

Part detail

Revision	G
Type	AC
Mech. spec.	37J639
Base	
Status	PRD/A
Elec. spec.	37WGR907
Layout	37LYJ639
Eff. date	12-18-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	11-21-2017

Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.16 IN
Power Factor	82
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Ball
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

NP1953C05									
CAT.NO.	CESSWDM3710T-5								
SPEC.	37J639R907G1								
HP	7.5								
VOLTS	575								
AMP	7.6								
RPM	1770								
FRAME	213TC			HZ	60		PH	3	
SER.F.	1.15	CODE	J	DES	A	CLASS	F		
NEMA-NOM-EFF	91.7		PF	82					
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V					N/A	
DE	6307		ODE	6206					
ENCL	TEFC	SN							
	10:1CT 20:1VT								

AC Induction Motor Performance Data

Record # 54313

Typical performance - not guaranteed values

Winding: 37WGR907-R004				Type: 3738M		Enclosure: TEFC				
Nameplate Data				575 V, 60 Hz: Single Voltage Motor						
Rated Output (HP)		7.5		Full Load Torque		22.2 LB-FT				
Volts		575		Start Configuration		direct on line				
Full Load Amps		7.6		Breakdown Torque		71 LB-FT				
R.P.M.		1770		Pull-up Torque		32.6 LB-FT				
Hz		60 Phase		3		Locked-rotor Torque		43 LB-FT		
NEMA Design Code		A		KVA Code		J		Starting Current	56.9 A	
Service Factor (S.F.)		1.15				No-load Current		3.48 A		
NEMA Nom. Eff.		91.7		Power Factor		82		Line-line Res. @ 25°C		2.22 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		63°C		
S.F. Amps						Temp. Rise @ S.F. Load		77°C		
						Locked-rotor Power Factor		37.3		
						Rotor inertia		0.934 LB-FT2		

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	63	75	80	83	84	82
Efficiency	87.1	91.7	91.9	92.1	91	89.9	91.4
Speed	1793	1786	1778	1770	1760	1750	1764
Line amperes	3.9	4.84	6.1	7.61	9.29	11.1	8.62

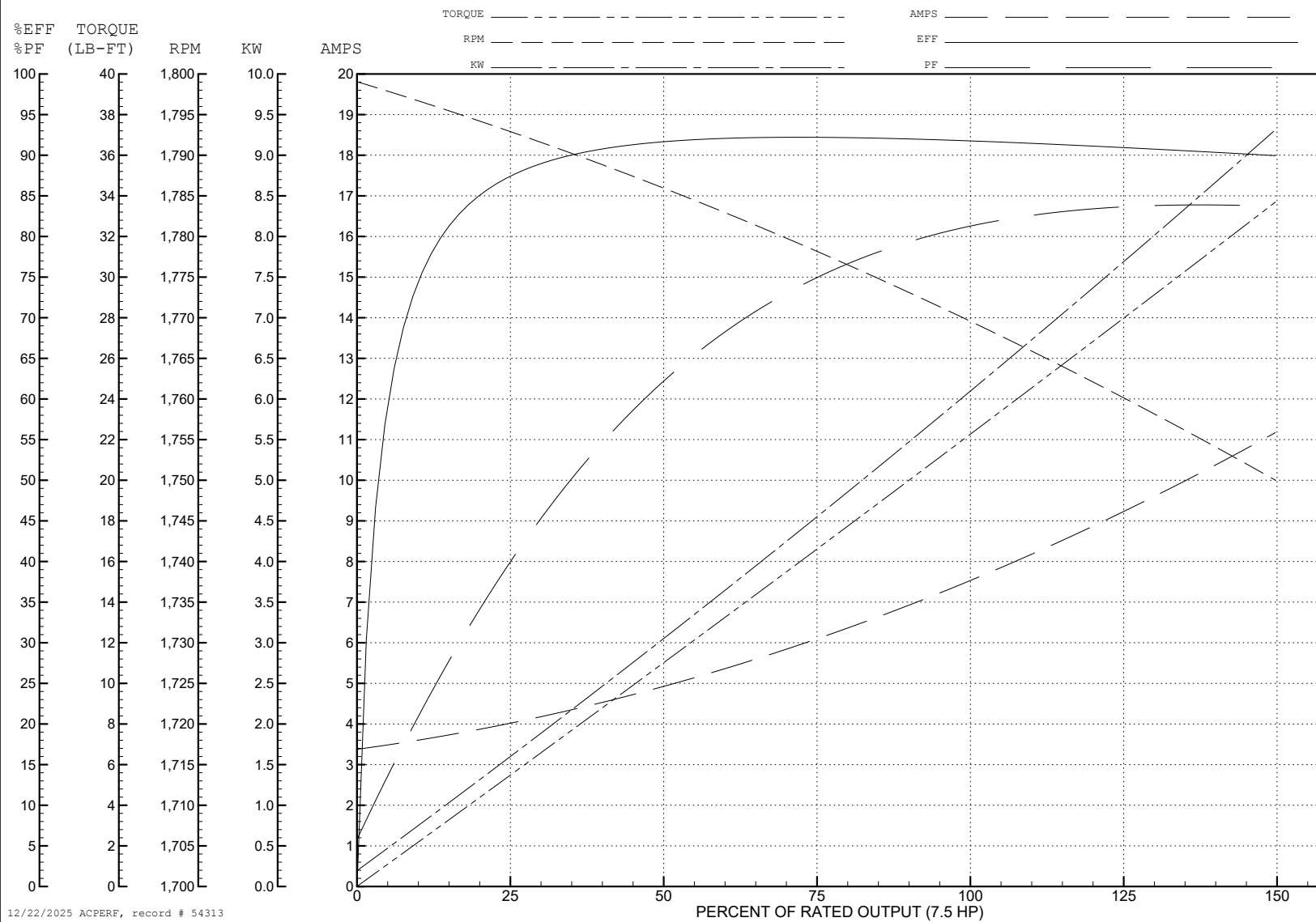
ABB Motors and Mechanical Inc.

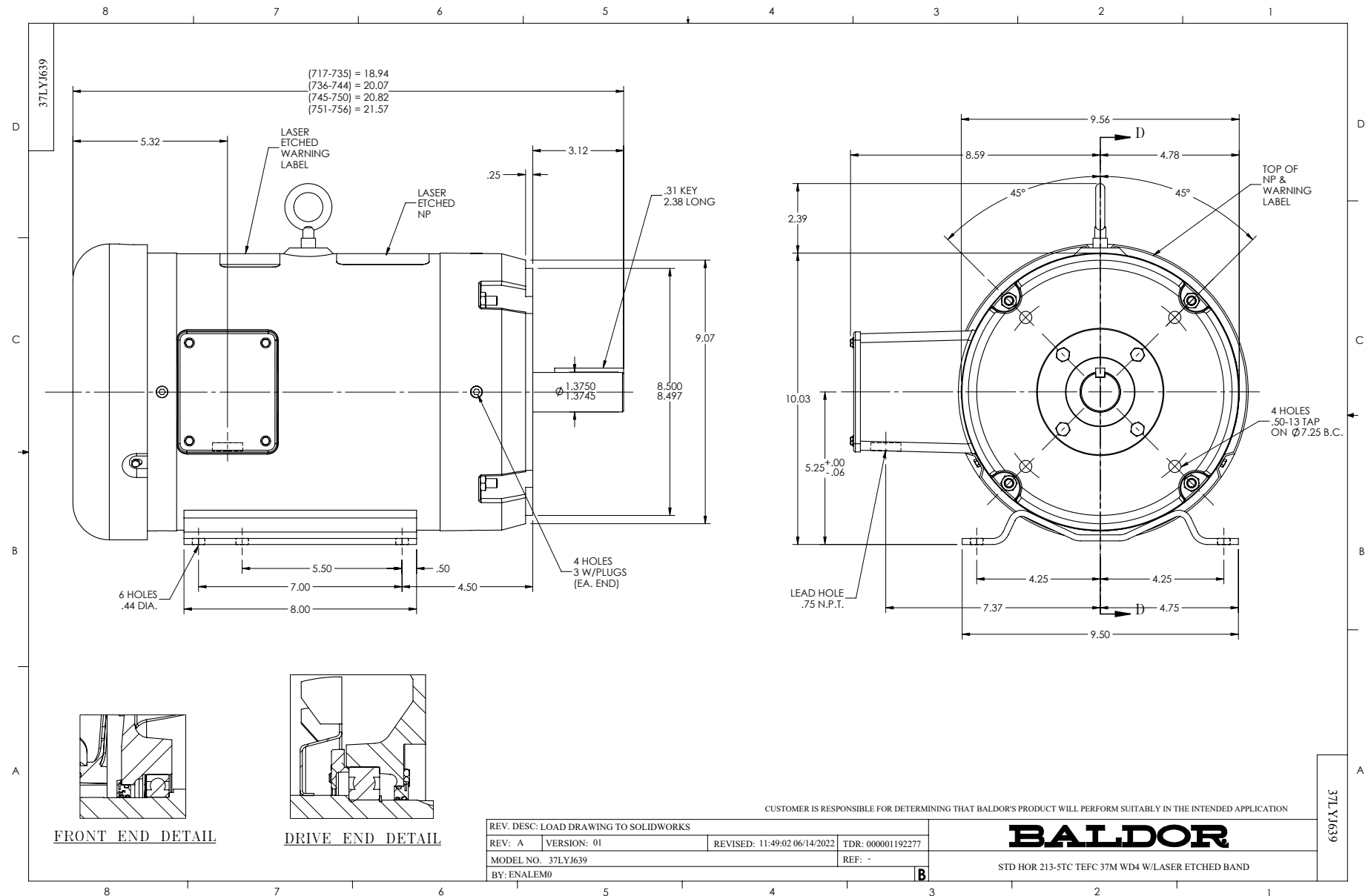
WINDING # 37WGR907

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 575 V 3738M

TORQUES (LB-FT): PO=71 PU=32.6 LR=43 LRA=56.9





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

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BALDOR - RELIANCE®

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

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