

**BALDOR • RELIANCE**

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# Customer information packet

## CESSWDM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3740M, TEFC

Class - None

Division - Not Applicable

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4/1/2023 2:02:53 AM

## Specifications

Enclosure	TEFC
Frame	213TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
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
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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	AC
Type	AC
Mech. spec.	37J639
Base	
Status	PRD/A
Elec. spec.	37WGT864
Layout	37LYJ639
Eff. date	02-10-2023
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

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Winding Thermal 2

None

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**Nameplate**

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

**AC Induction Motor Performance Data**

Record # 17300

Typical performance - not guaranteed values

<b>Winding:</b> 37WGT864-R001		<b>Type:</b> 3740M		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	7.5	<b>Full Load Torque</b>	22.36 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	19.0/9.5	<b>Breakdown Torque</b>	73.15 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	39.79 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	47.81 LB-FT	
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	J	<b>Starting Current</b>	74.95 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	4.4 A	
<b>NEMA Nom. Eff.</b>	91.7	<b>Power Factor</b>	81	<b>Line-line Res. @ 25°C</b>	1.27 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	69°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	85°C	
			<b>Locked-rotor Power Factor</b>	36.4	
			<b>Rotor inertia</b>	0.984 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

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

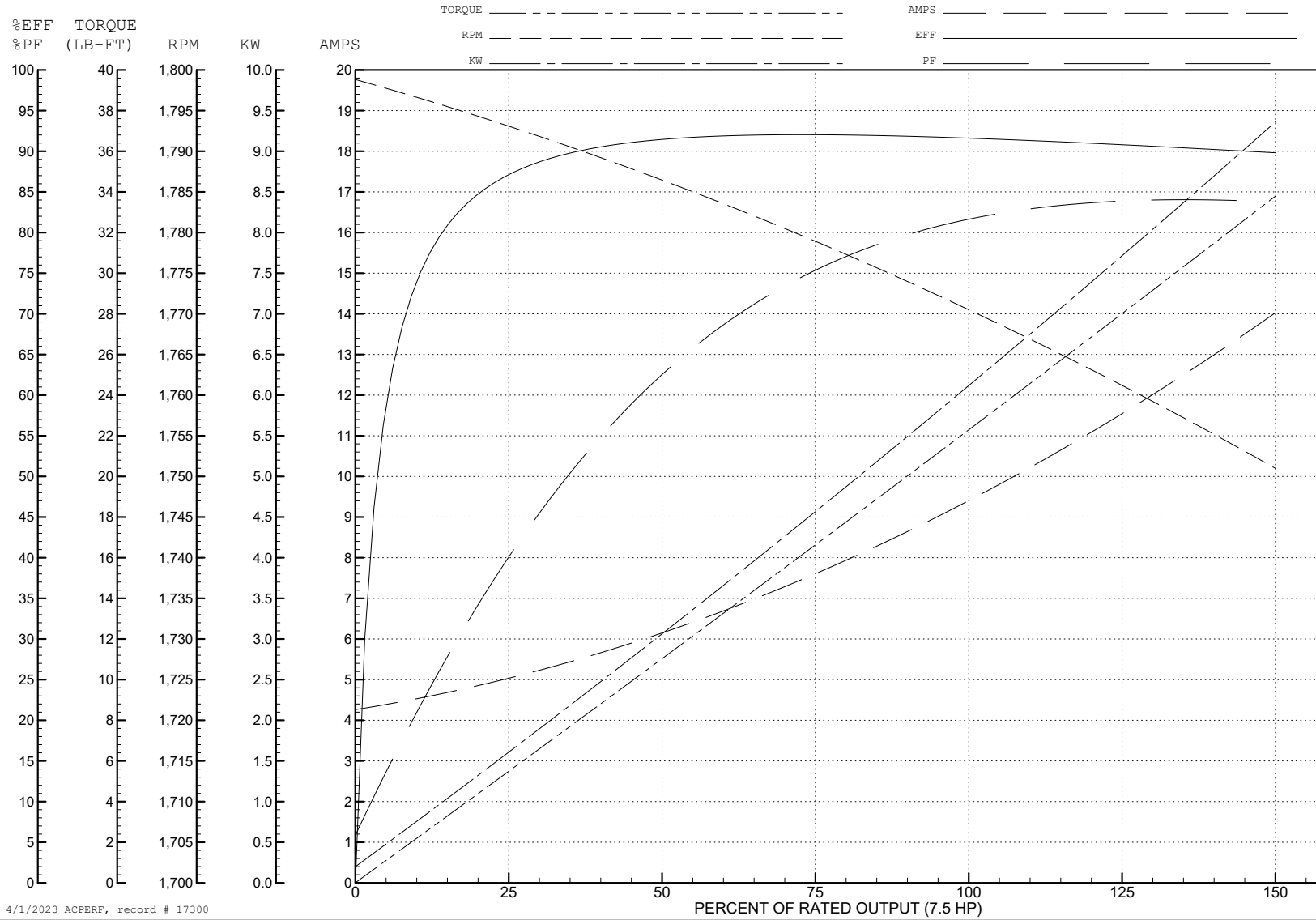
ABB Motors and Mechanical Inc.

WINDING # 37WGT864

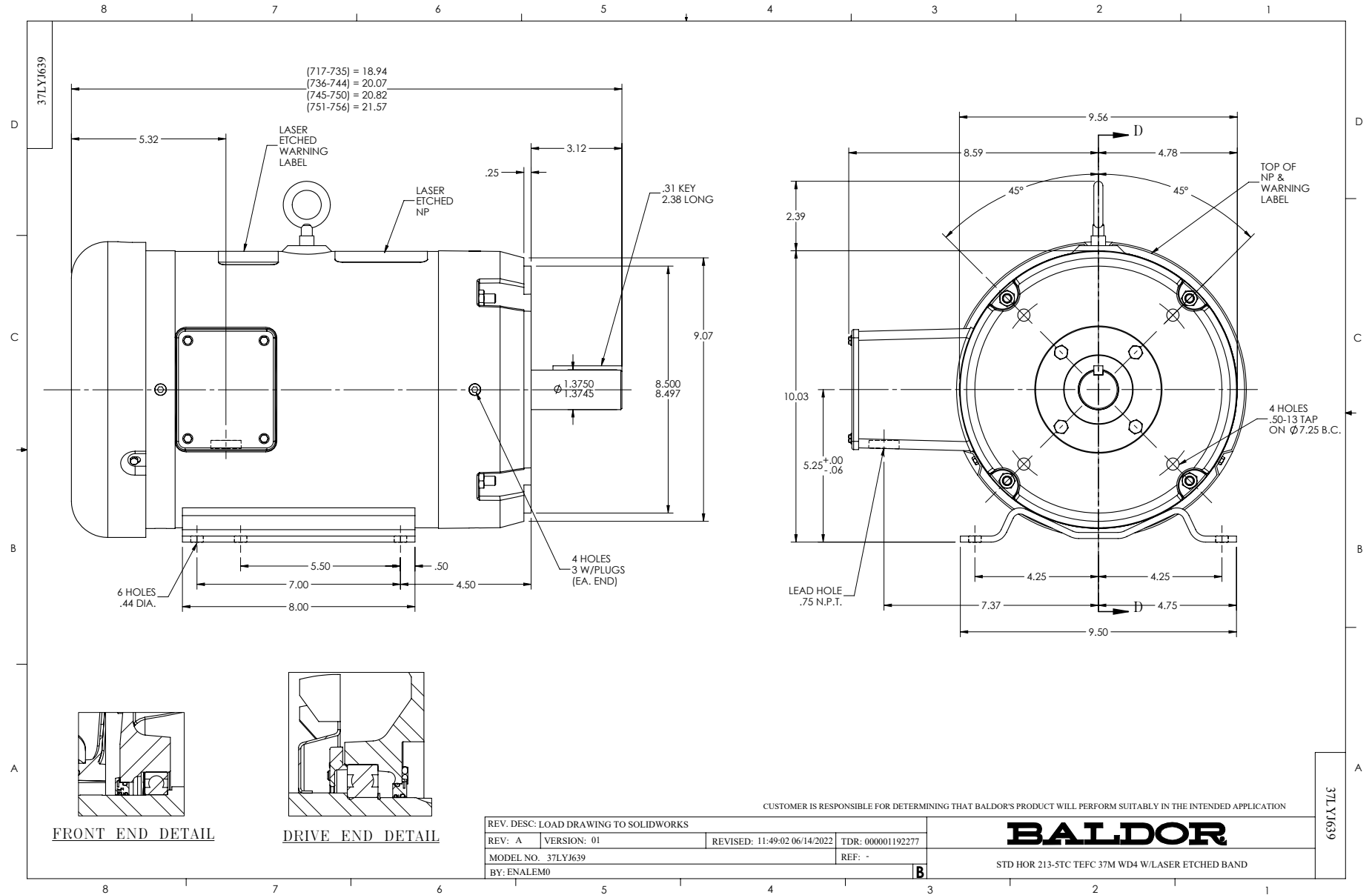
Typical performance - not guaranteed values.

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

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



4/1/2023 ACPERF, record # 17300





CD0005



LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS