

**BALDOR • RELIANCE**

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# Customer information packet

## VESSWDM3710T

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

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	213TC
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	7.500 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
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J

## Part detail

Revision	G
Type	AC
Mech. spec.	37L779
Base	
Status	PRD/A
Elec. spec.	37WGT864
Layout	37LYL779
Eff. date	02-10-2023
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	07-05-2018

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	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.16 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 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 - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

**Nameplate**

<b>NP1953C01</b>									
<b>CAT.NO.</b>	VESSWDM3710T								
<b>SPEC.</b>	37L779T864G4								
<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>	N/A						
<b>DE</b>	6307	<b>ODE</b>	6206						
<b>ENCL</b>	TEFC	<b>SN</b>							
	10:1CT 20:1VT								

**AC Induction Motor Performance Data**

Record # 17300

Typical performance - not guaranteed values

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

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

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

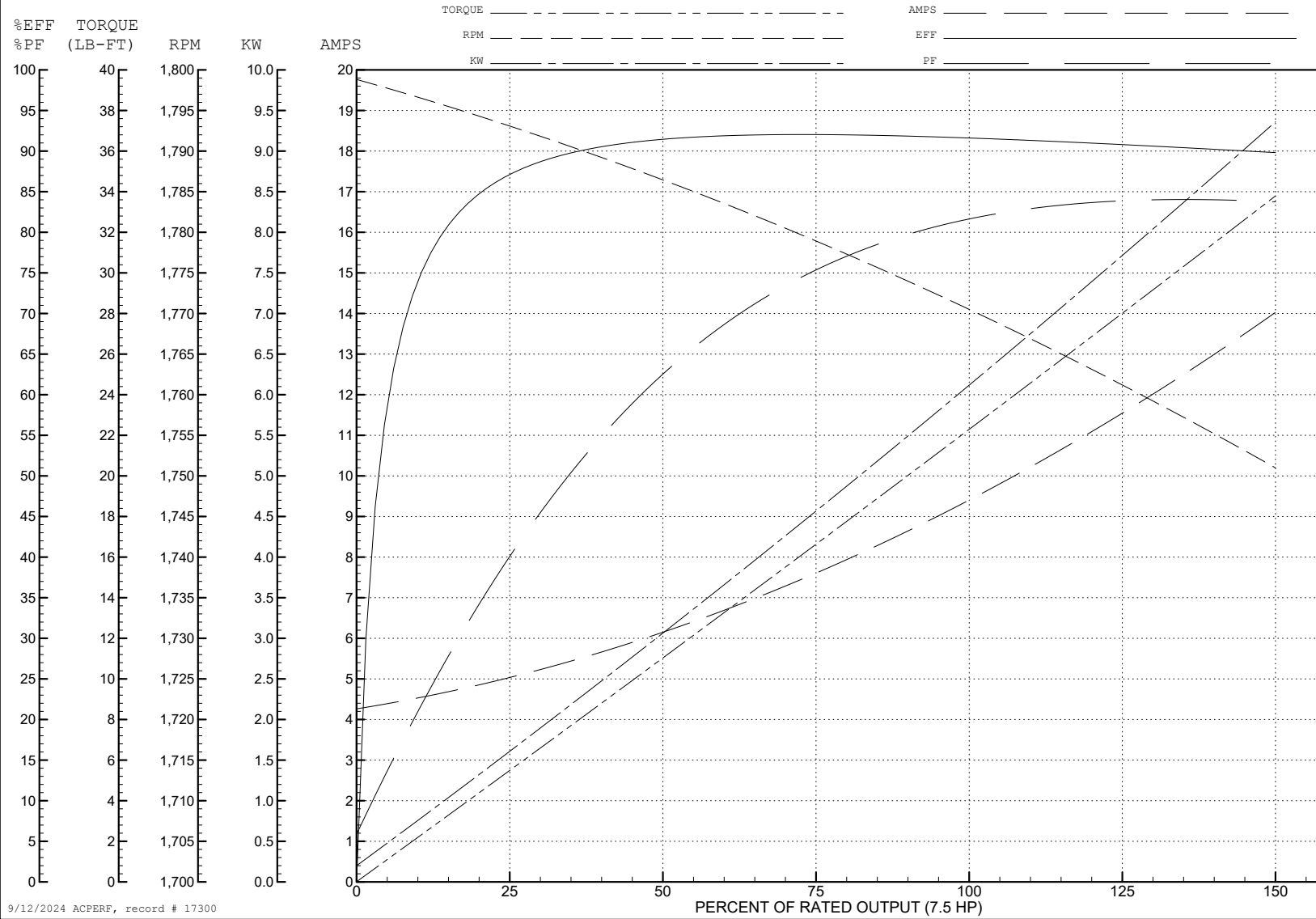
ABB Motors and Mechanical Inc.

WINDING # 37WGT864

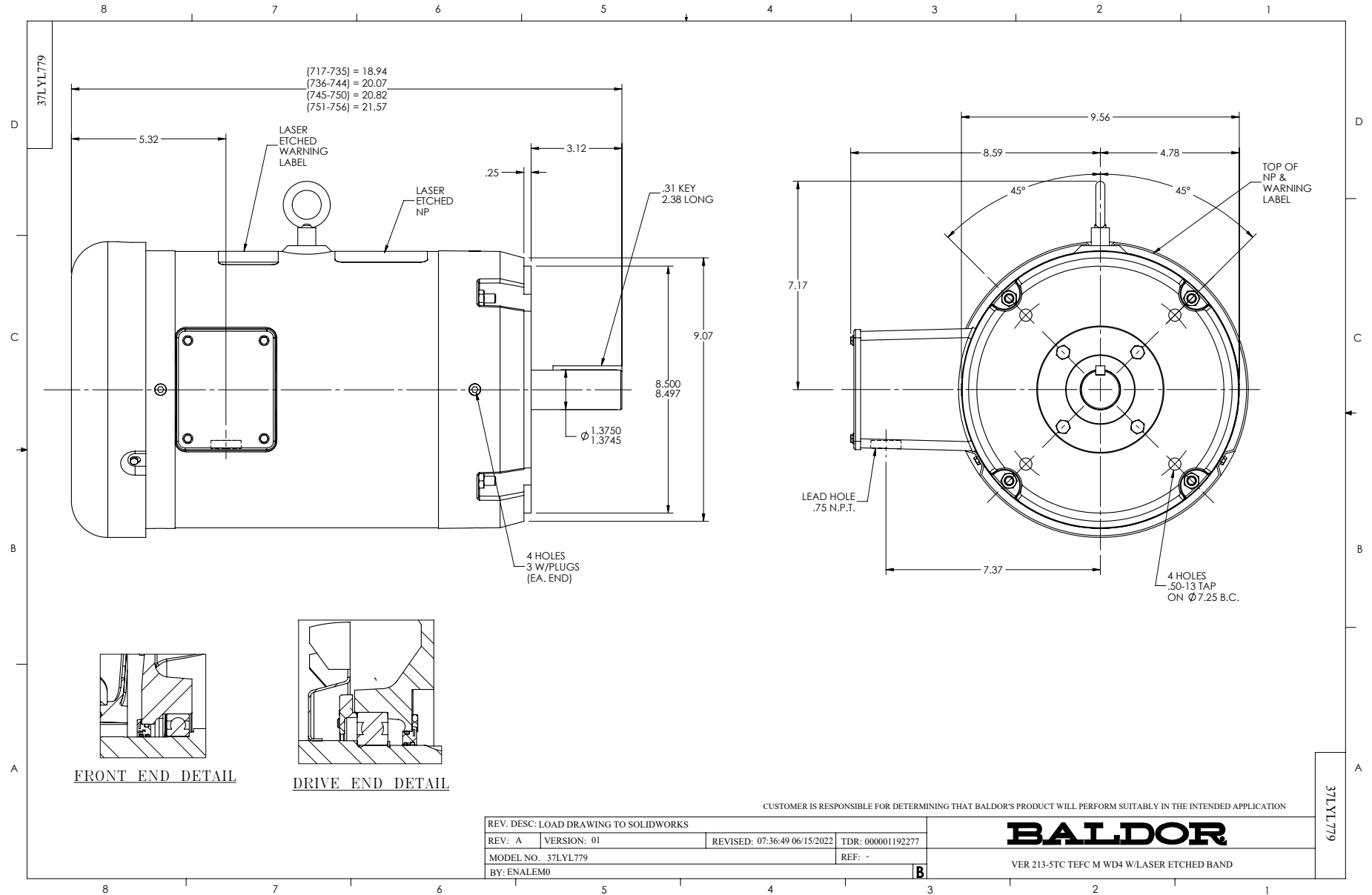
7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3740M

Typical performance - not guaranteed values.

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



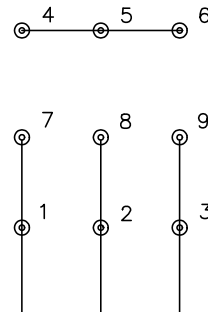
9/12/2024 ACPERF, record # 17300



CD0005

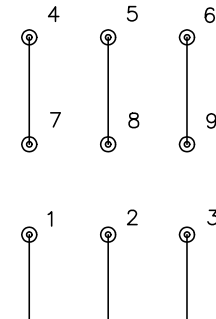


LOW VOLTAGE  
(2Y)



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