

**BALDOR • RELIANCE**

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# Customer information packet

## CESSWDM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3756M, TEFC, F

Class - None

Division - Not Applicable

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## 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	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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.500 A @ 460.0 V 25.000 A @ 230.0 V 26.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	12.5 a
Insulation Class	F

## Part detail

Revision	AA
Type	AC
Mech. spec.	37J639
Base	
Status	PRD/A
Elec. spec.	37WGT857
Layout	37LYJ639
Eff. date	02-10-2023
CD Diagram	CD0180
Poles	04
Leads	9#14
Proprietary	False
Created date	07-19-2006

<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	9 @ 14 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3756M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	21.66 IN
<b>Power Factor</b>	81
<b>Product Family</b>	Wash Down All Stainless Steel
<b>Pulley End Bearing Type</b>	Sealed Bearing
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.375 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1770 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1953C02</b>									
<b>CAT.NO.</b>	CESSWDM3714T								
<b>SPEC.</b>	37J639T857G1								
<b>HP</b>	10								
<b>VOLTS</b>	230/460								
<b>AMP</b>	25/12.5								
<b>RPM</b>	1770								
<b>FRAME</b>	215TC		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES</b>	B	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	92.4	<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>							
	4:1CT 20:1VT								

**AC Induction Motor Performance Data**

Record # 35792

Typical performance - not guaranteed values

<b>Winding:</b> 37WGT857-R004		<b>Type:</b> 3756M		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	10	<b>Full Load Torque</b>	29.9 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	25/12.5	<b>Breakdown Torque</b>	102 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	53.6 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	74.2 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	105 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	5.44 A		
<b>NEMA Nom. Eff.</b>	92.4	<b>Line-line Res. @ 25°C</b>	0.799 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	76°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	93°C		
		<b>Locked-rotor Power Factor</b>	32		
		<b>Rotor inertia</b>	1.38 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 10 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>	43	65	76	81	83	84	82
<b>Efficiency</b>	88	92.6	93.3	93	92.4	91.5	92.6
<b>Speed</b>	1793	1786	1778	1770	1762	1752	1765
<b>Line amperes</b>	6.18	7.79	10	12.5	15.3	18.3	14.2

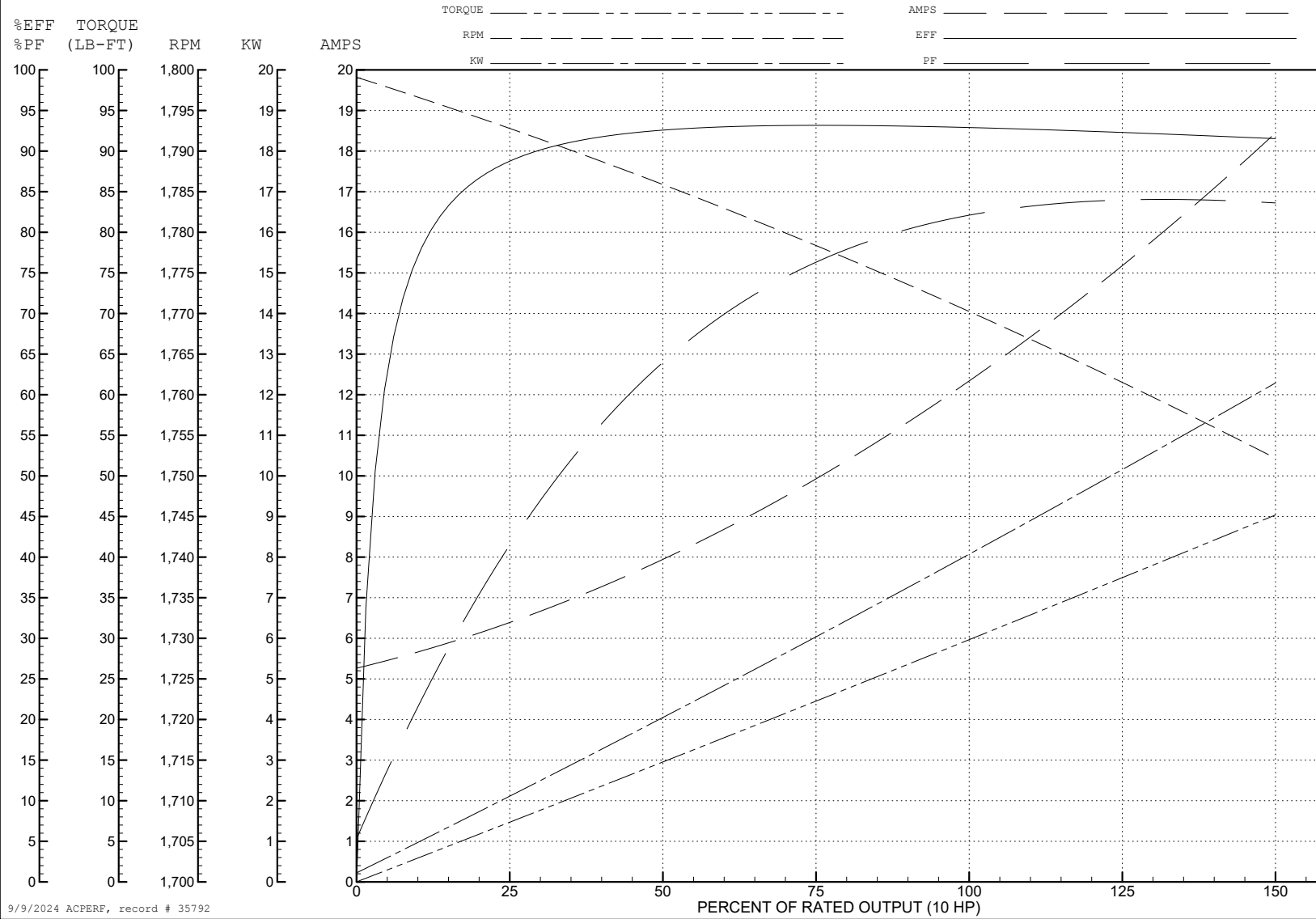
ABB Motors and Mechanical Inc.

WINDING # 37WGT857

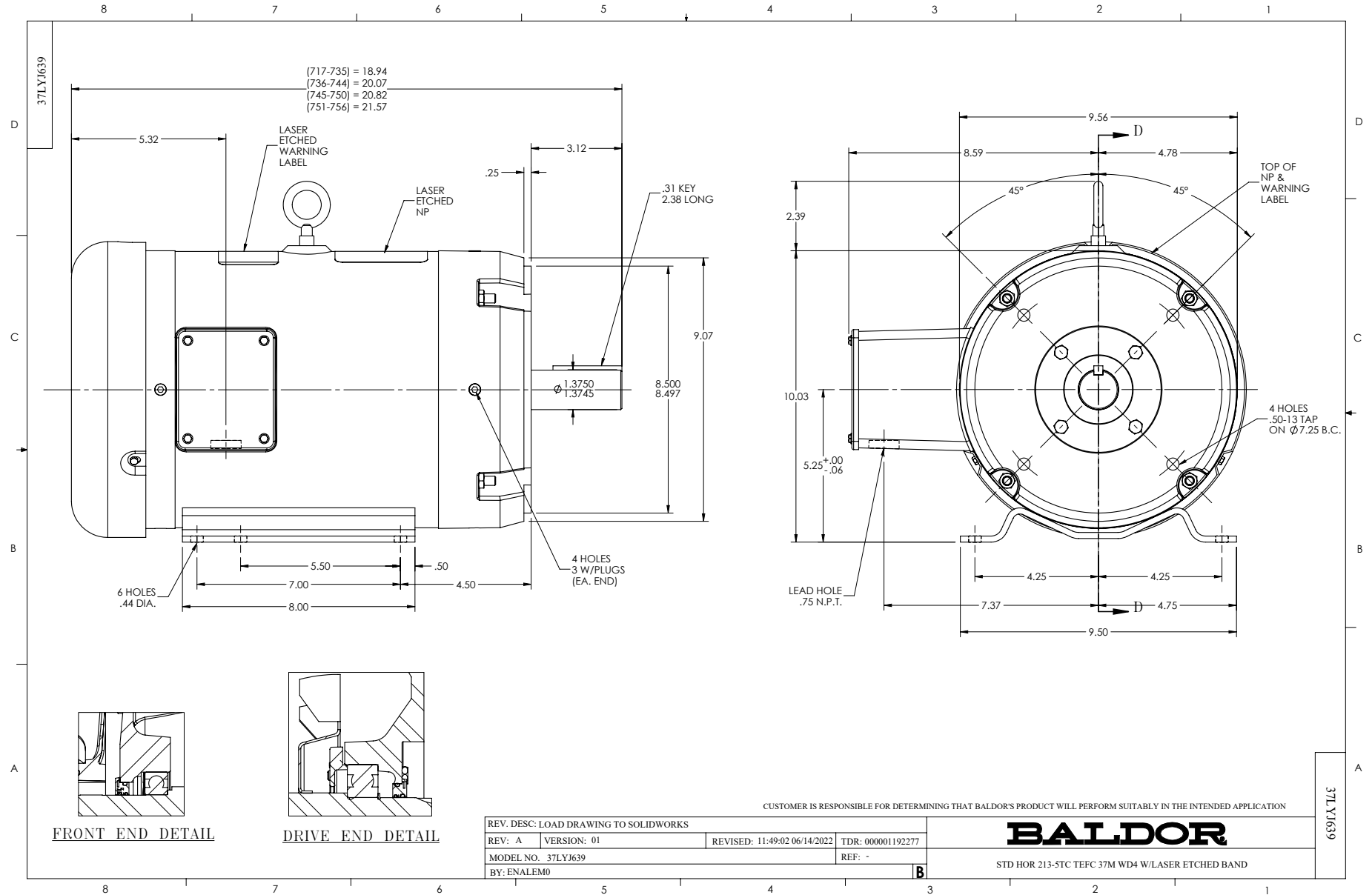
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3756M

TORQUES (LB-FT): PO=102 PU=53.6 LR=74.2 LRA=105



9/9/2024 ACPERF, record # 35792



CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



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: ENBRIRO
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**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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