

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3714T-5

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3754M, TEFC, F

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
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	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	9.800 A @ 575.0 V
Design Code	B
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	9.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
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.	37WGR528
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	3754M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.66 IN
Power Factor	84
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Ball
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	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.	CESSWDM3714T-5										
SPEC.	37J639R528G1										
HP	10										
VOLTS	575										
AMP	9.8										
RPM	1770										
FRAME	215TC				HZ		60		PH		3
SER.F.	1.15		CODE		H	DES		B	CLASS		F
NEMA-NOM-EFF	91.7		PF		84						
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 # 42939

Typical performance - not guaranteed values

Winding: 37WGR528-R001			Type: 3754M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10	Full Load Torque		30 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		9.8	Breakdown Torque		76.7 LB-FT		
R.P.M.		1770	Pull-up Torque		45.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		51.4 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		66.9 A
Service Factor (S.F.)		1.15		No-load Current		3.57 A	
NEMA Nom. Eff.		91.7	Power Factor		84	Line-line Res. @ 25°C	1.56 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C	
S.F. Amps				Temp. Rise @ S.F. Load		84°C	

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	72	80	84	85	86	85
Efficiency	88.9	91.9	92.4	92.1	90.9	89.8	91.4
Speed	1791	1783	1775	1764	1755	1743	1759
Line amperes	4.2	5.62	7.58	9.78	12.1	14.6	11.2

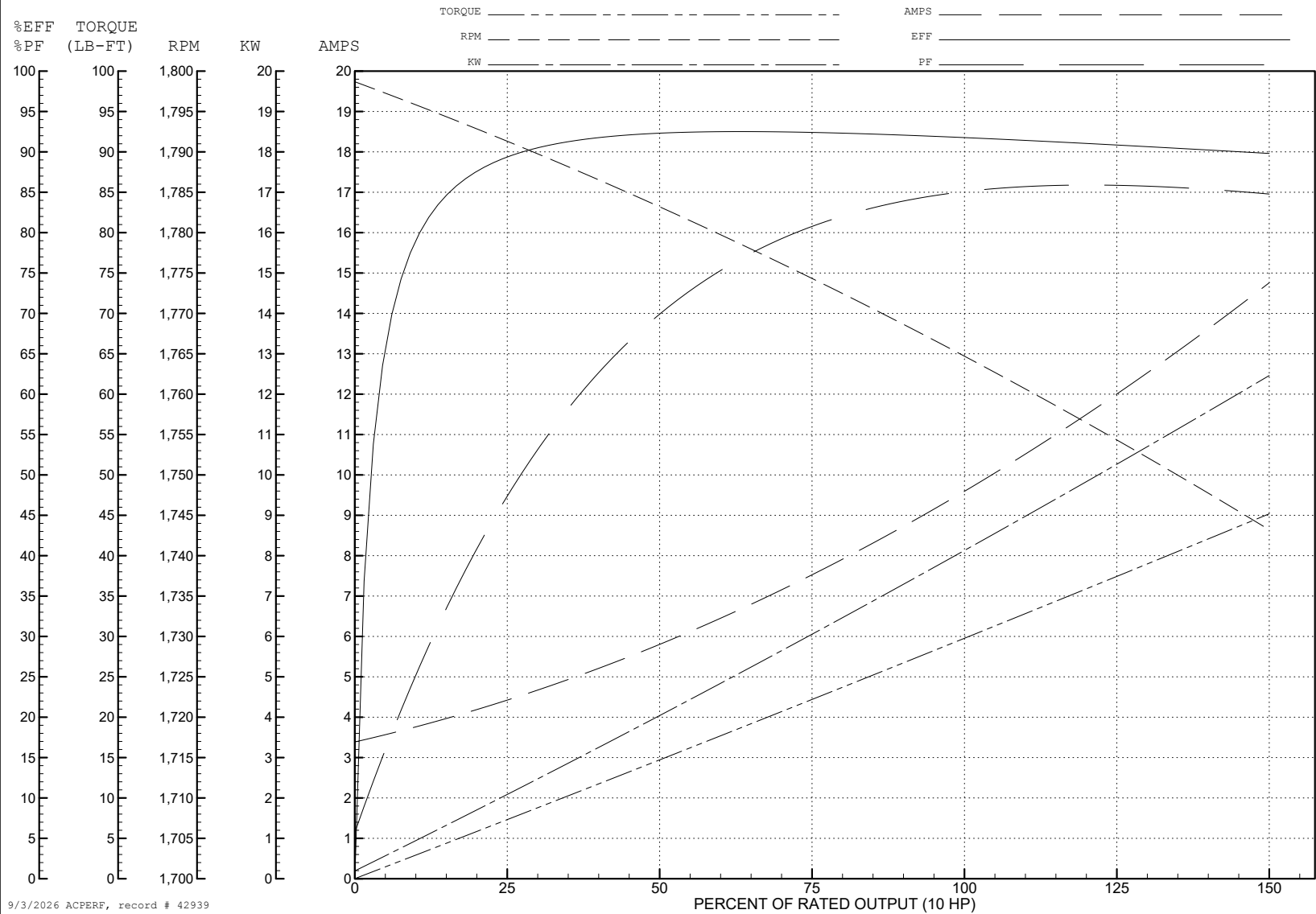
ABB Motors and Mechanical Inc.

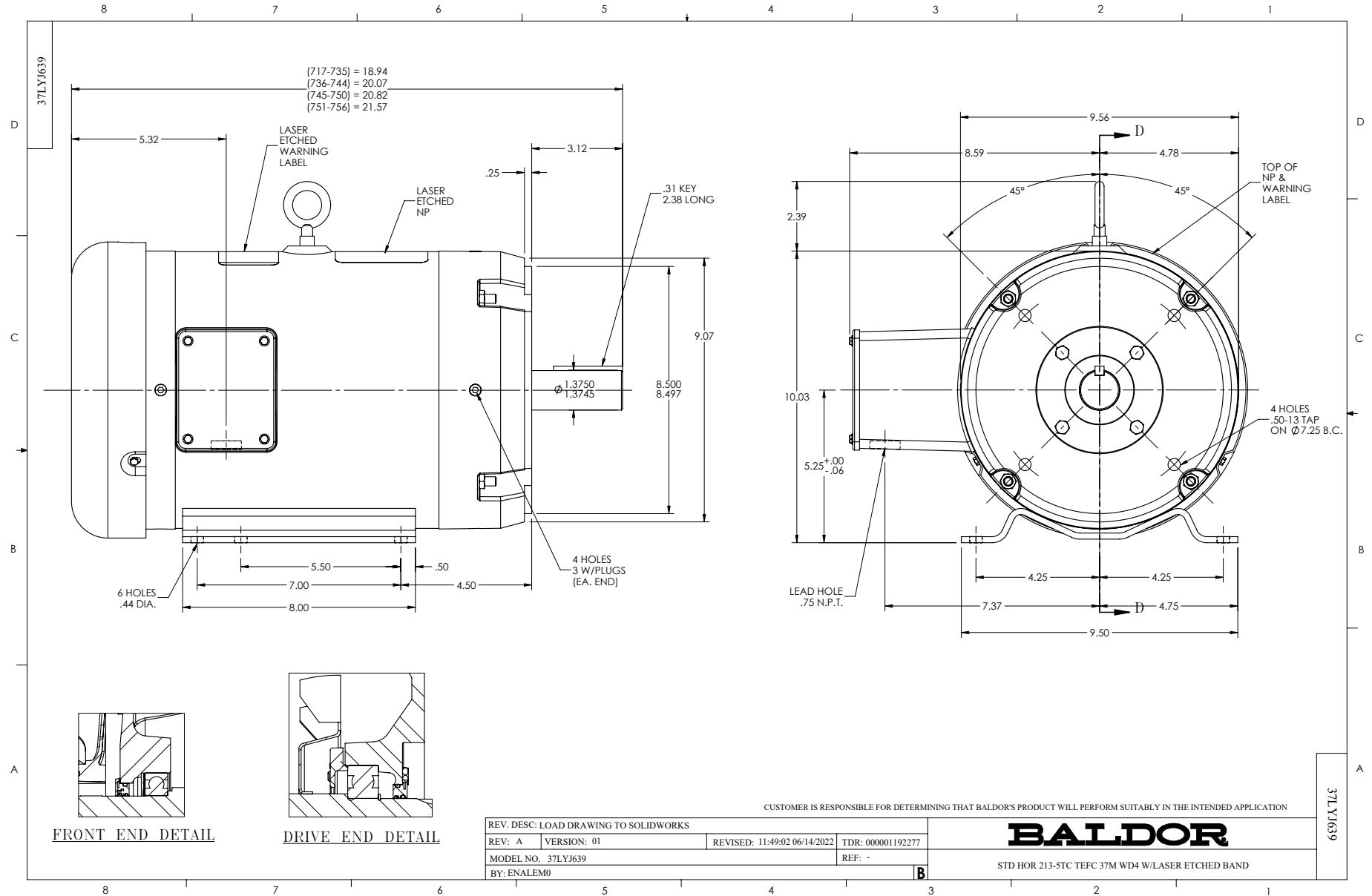
WINDING # 37WGR528

Typical performance - not guaranteed values.

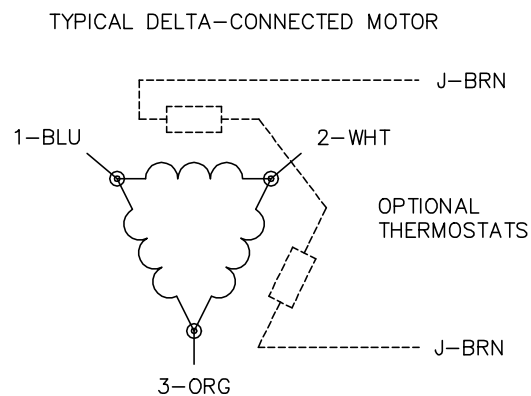
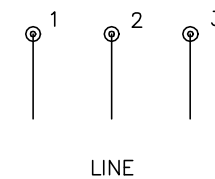
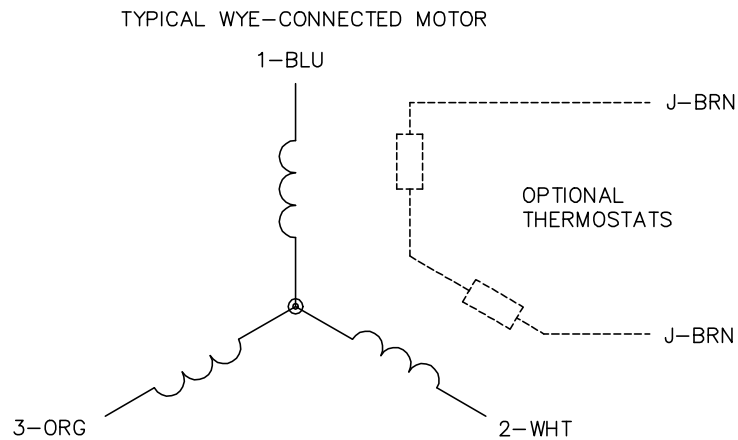
10 HP 3 PH 60 HZ 1770 RPM 575 V 3754M

TORQUES (LB-FT): PO=76.7 PU=45.1 LR=51.4 LRA=66.9





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

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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