

ABB BALDOR RELIANCE III

Customer information packet

VFSWDM3714T-5E

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

Class - None

Division - Not Applicable

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	575.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	10.100 A @ 575.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.1 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K

Part Detail

Revision	H
Type	AC
Mech. spec.	37Q227
Base	
Status	PRD/A
Elec. spec.	37WGS360
Layout	37LYQ227
Eff. date	09-22-2023
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	01-22-2019

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.12 IN
Power Factor	81
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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 - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4427AAA02												
CAT #	VFSWDM3714T-5E				WGT		LBS					
SPEC	37Q227S360G2				ENCL	TEFC						
SER #					CC	010A	IP	69				
HP	10			MAG CUR	4.5							
VOLTS	575						NEMA NOM. EFF	92.4				
AMPS	10.1					PF	81					
RATING	40C AMB-CONT											
RPM	1770				MAX RPM	4500						
FRAME	215TC	HZ	60		CODE	K	CLASS	H				
SER.F.	1.00	SF AMP				PH	3	DES	B			
DE	6307		ODE	6307								
LUBRICATION	POLYREX EM											
ID LOGO	INVERTER TYPE		VPWM		CHP	60	TO	90		1.5:1		
ID LOGO	WK2	1.38	CT	15	TO	60	4:1					
ID LOGO	SL HZ	1	VT	6	TO	60	10:1					
	1.15 SF SINEWAVE											
YR							QR					

AC Induction Motor Performance Data

Record # 24424

Typical performance - not guaranteed values

Winding: 37WGS360-R001				Type: 3756M		Enclosure: TEFC				
Nameplate Data				575 V, 60 Hz: Single Voltage Motor						
Rated Output (HP)		10		Full Load Torque		29.9 LB-FT				
Volts		575		Start Configuration		direct on line				
Full Load Amps		10.1		Breakdown Torque		104 LB-FT				
R.P.M.		1770		Pull-up Torque		54.9 LB-FT				
Hz		60 Phase		3		Locked-rotor Torque		75.9 LB-FT		
NEMA Design Code		B		KVA Code		K		Starting Current	86.1 A	
Service Factor (S.F.)		1				No-load Current		4.49 A		
NEMA Nom. Eff.		92.4		Power Factor		81		Line-line Res. @ 25°C		1.25 Ω
Rating - Duty		40C AMB-CONT				Temp. Rise @ Rated Load		77°C		
						Locked-rotor Power Factor		32		
						Rotor inertia		1.38 LB-FT2		

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	64	75	81	83	84
Efficiency	87.8	92.2	92.9	92.8	92.1	91.6
Speed	1793	1786	1778	1770	1763	1753
Line amperes	5.07	6.34	8.08	10.1	12.3	14.7

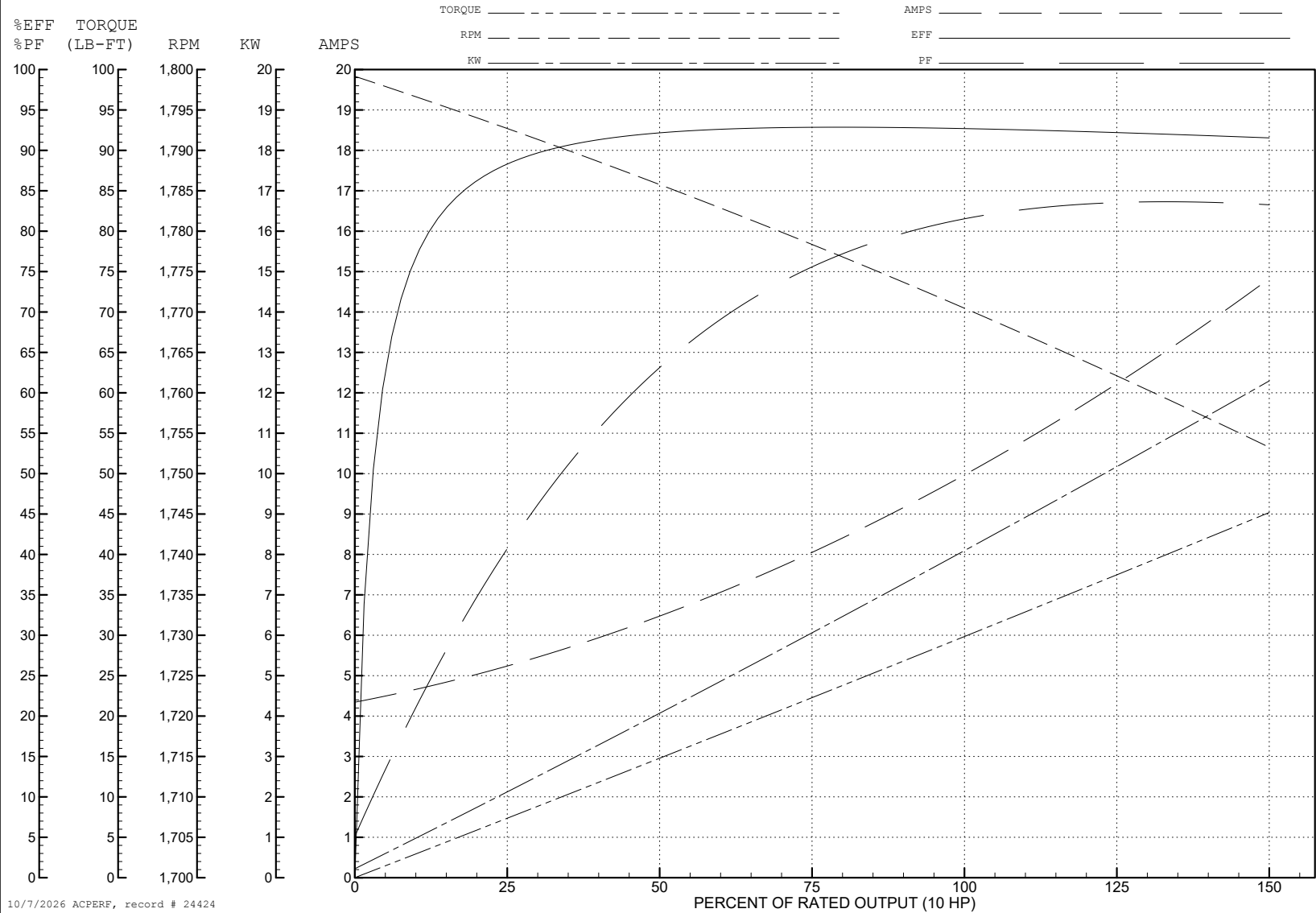
ABB Motors and Mechanical Inc.

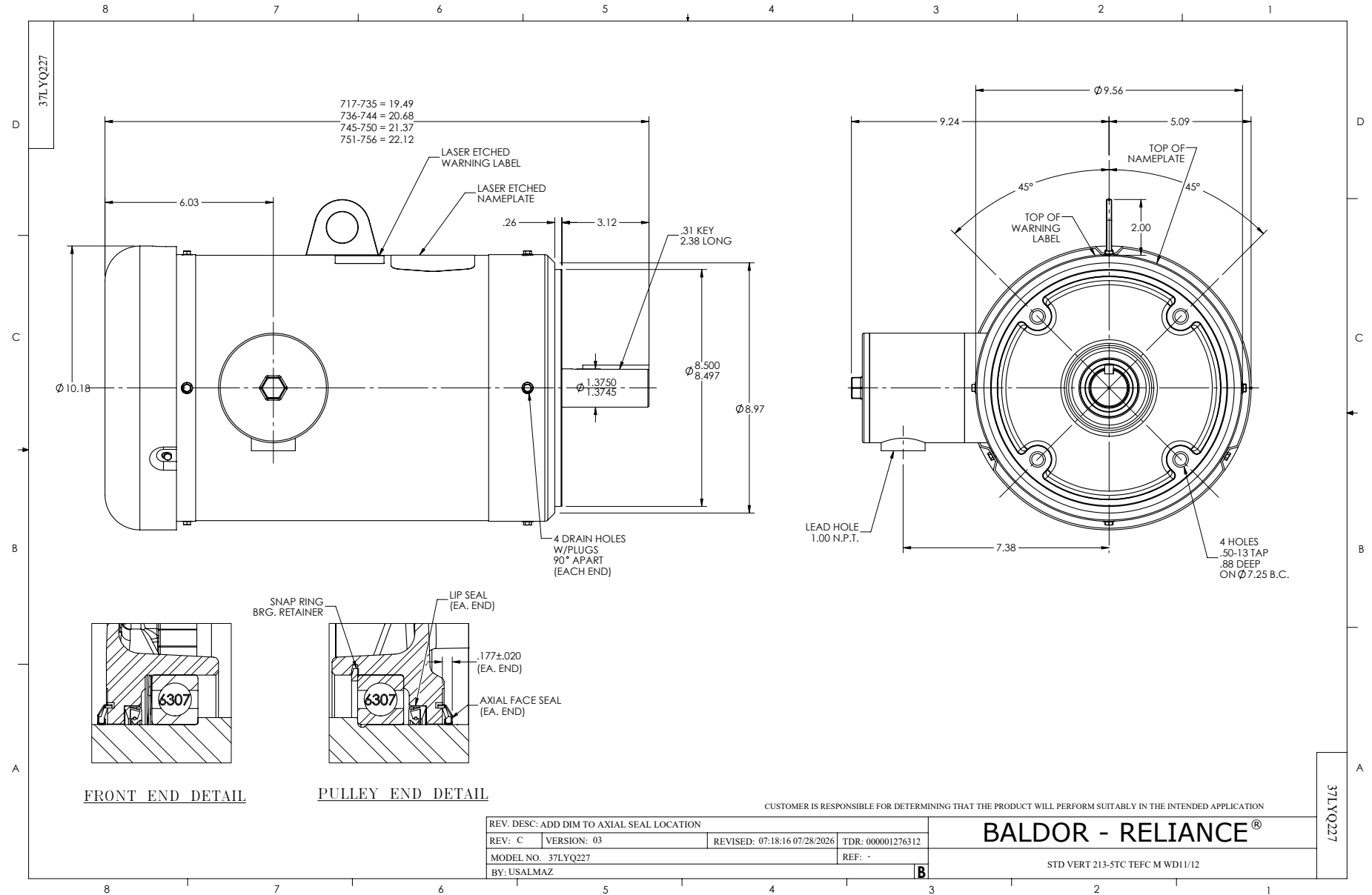
WINDING # 37WGS360

Typical performance - not guaranteed values.

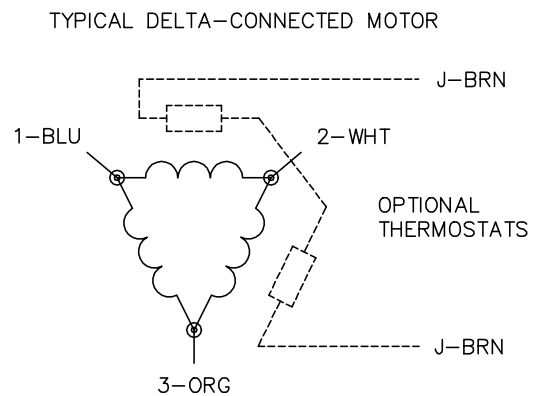
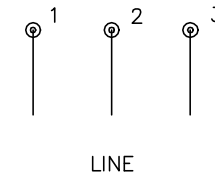
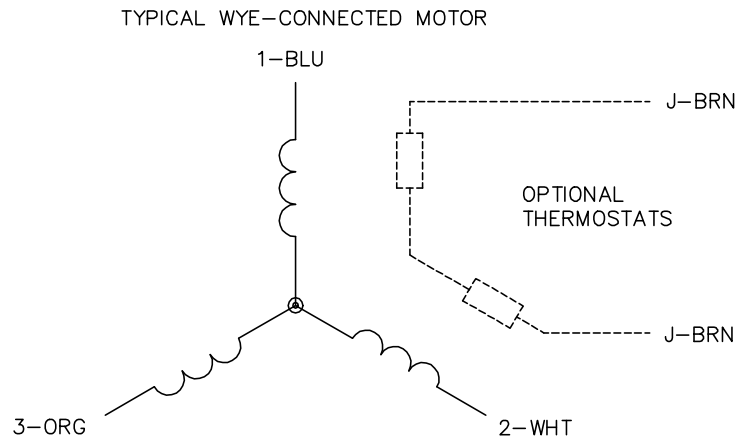
10 HP 3 PH 60 HZ 1770 RPM 575 V 3756M

TORQUES (LB-FT): PO=104 PU=54.9 LR=75.9 LRA=86.1





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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