

ABB BALDOR RELIANCE III

Customer information packet

JMFSWDM3714T-E

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215JM
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
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
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	26.700 A @ 208.0 V 25.000 A @ 230.0 V 12.500 A @ 460.0 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

Part Detail

Revision	P
Type	AC
Mech. spec.	37Q257
Base	
Status	PRD/A
Elec. spec.	37WGS251
Layout	37LYQ257
Eff. date	06-24-2024
CD Diagram	CD0180
Poles	04
Leads	9#14
Proprietary	False
Created date	10-12-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
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	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.56 IN
Power Factor	81
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 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

NP4427AAA05													
CAT #	JMFSWDM3714T-E					WGT		LBS					
SPEC	37Q257S251G1					ENCL	TEFC						
SER #						CC	010A		IP	69			
HP	10		MAG CUR			12.6/6.3							
VOLTS	230/460					NEMA NOM. EFF				92.4			
AMPS	25/12.5					PF	81						
RATING	40C AMB-CONT												
RPM	1770					MAX RPM		2700					
FRAME	215JM		HZ	60		CODE	K	CLASS	H				
SER.F.	1.15		SF AMP					PH	3	DES	B		
DE	6309			ODE	6307								
LUBRICATION	POLYREX EM												
ID LOGO	INV 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						

AC Induction Motor Performance Data

Record # 62567

Typical performance - not guaranteed values

Winding: 37WGS251-R016				Type: 3756M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10		Full Load Torque		29.9 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		25/12.5		Breakdown Torque		102 LB-FT	
R.P.M.		1770		Pull-up Torque		53.6 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		74.2 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		105 A
Service Factor (S.F.)		1.15		No-load Current		5.44 A	
NEMA Nom. Eff.		92.4	Power Factor	81	Line-line Res. @ 25°C		0.799 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		76°C	
S.F. Amps				Temp. Rise @ S.F. Load		93°C	
				Locked-rotor Power Factor		31.7	
				Rotor inertia		1.38 LB-FT2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	83	84	82
Efficiency	88	92.6	93	92.9	92.2	91.5	92.5
Speed	1793	1786	1778	1770	1762	1752	1765
Line amperes	6.18	7.79	10	12.5	15.3	18.3	14.2

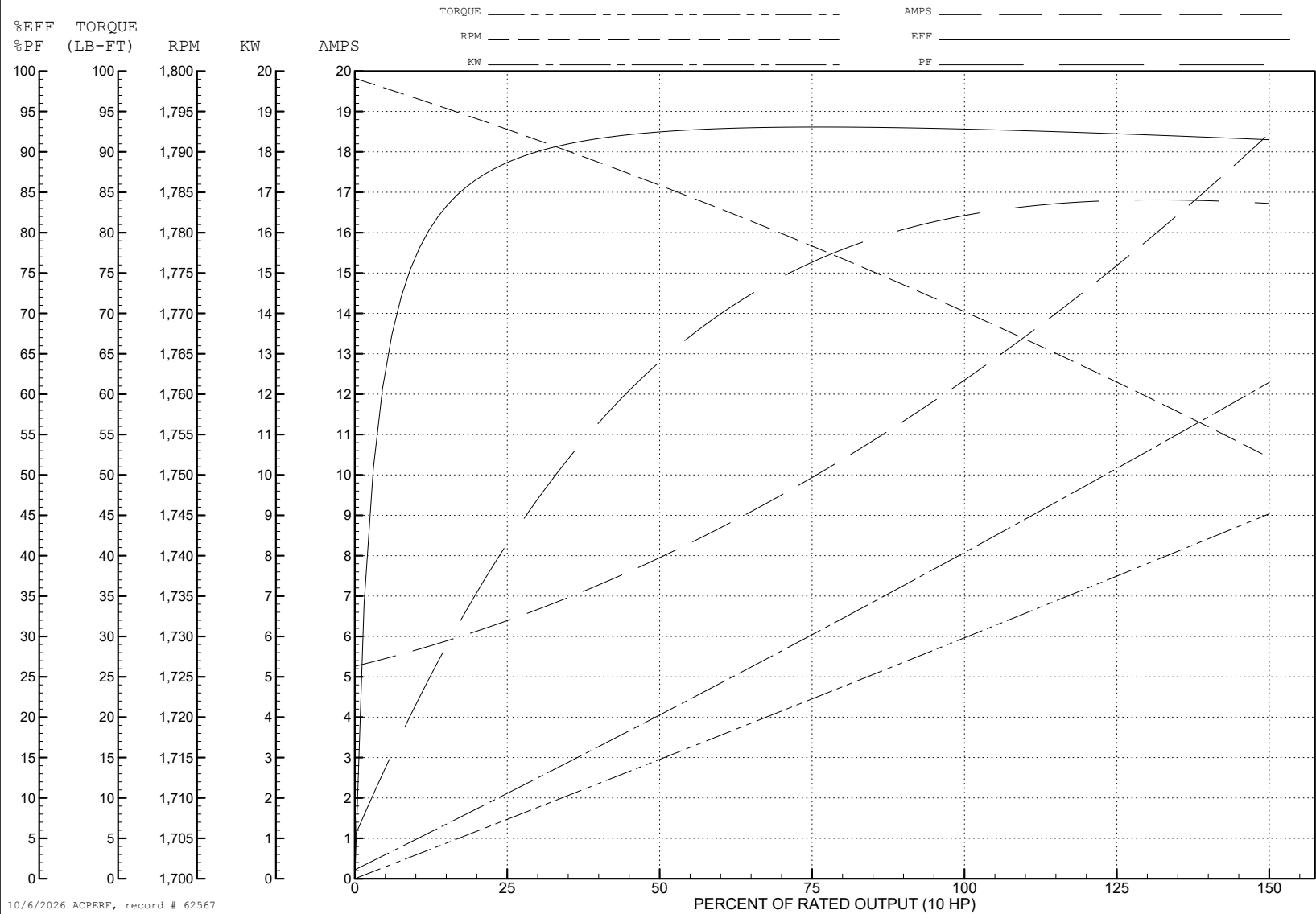
ABB Motors and Mechanical Inc.

WINDING # 37WGS251

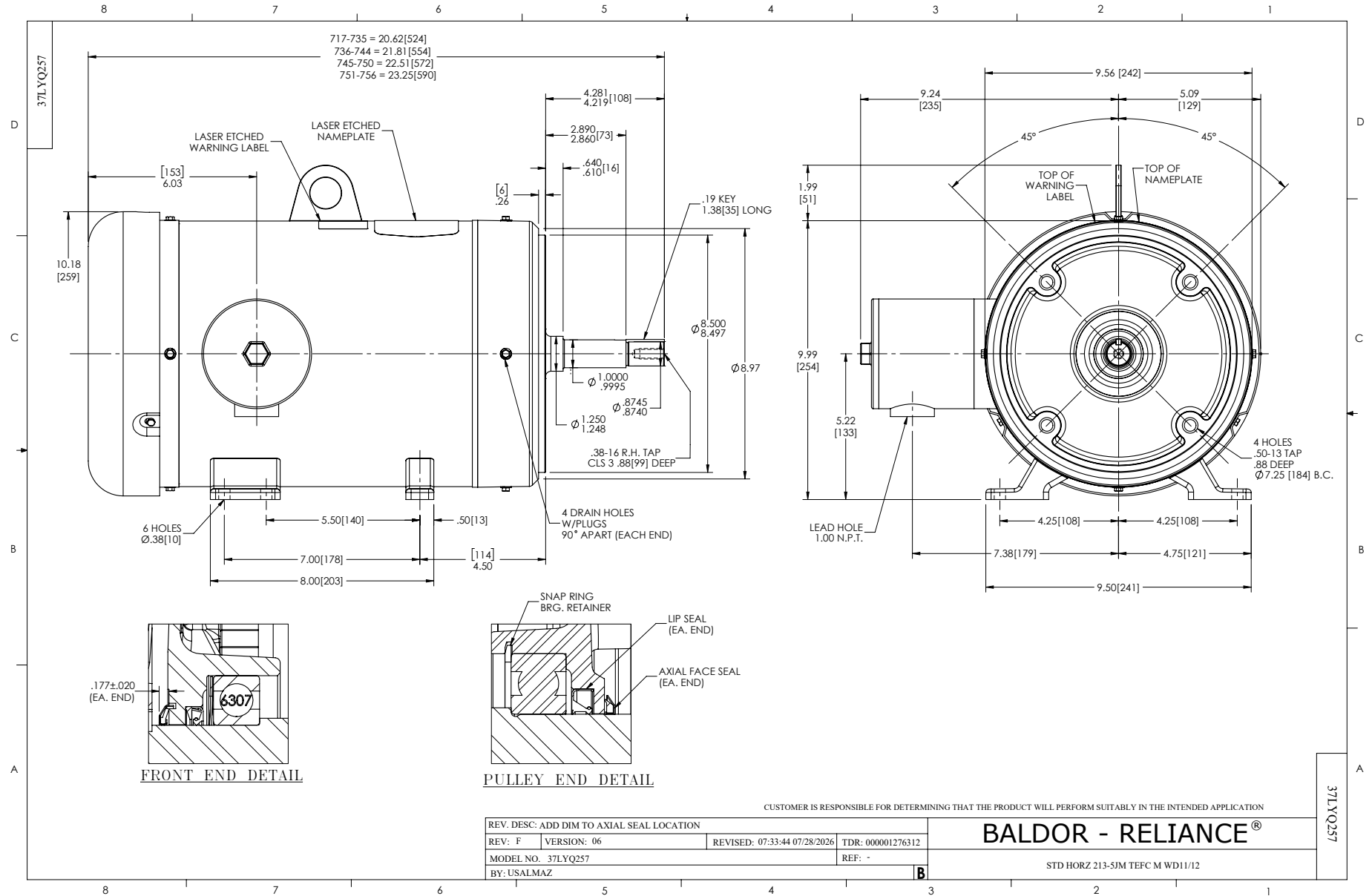
Typical performance - not guaranteed values.

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

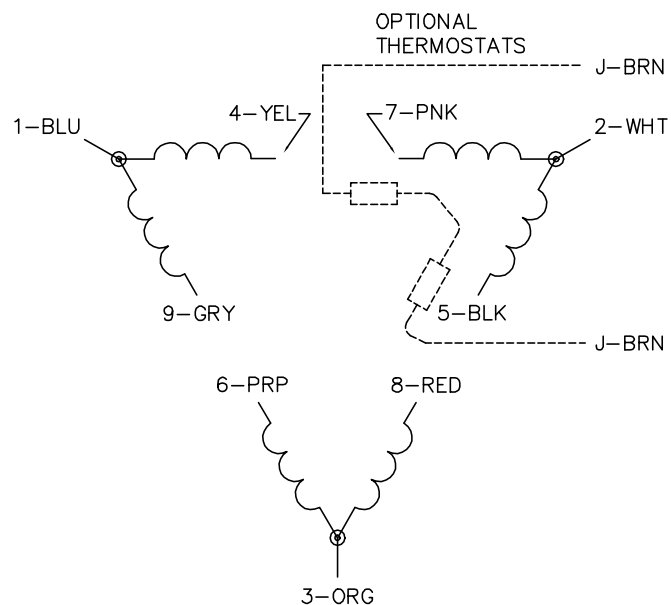
TORQUES (LB-FT): PO=102 PU=53.6 LR=74.2 LRA=105



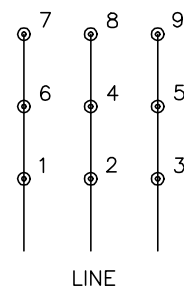
10/6/2026 ACPERF, record # 62567



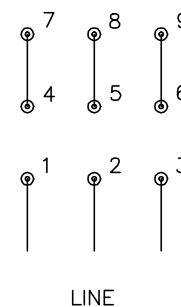
CD0180



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

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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