ABB BALDOR RELIANCE

Customer information packet

CFSWDM3704T-E

3HP, 1170RPM, 3PH, 60HZ, 213TC, 3748M, TEFC, F1
Class - None
Division - Not Applicable

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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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 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	4.500 A @ 460.0 V
	9.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	37Q242
Base	
Status	PRD/A
Elec. spec.	37WGR922
Layout	37LYQ242
Eff. date	09-22-2023
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	08-01-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	4.5 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	3748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	21.37 IN
Power Factor	69
Product Family	WD All SS 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	1.15
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	1170 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

NP4427AAA01												
CAT #	CFSWDM3704T-E			**WT**	158	**LBS**						
SPEC	37Q242R922G1			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	69					
HP	3			**MAG CUR**	5.2/2.6							
VOLTS	230/460					**NEMA NOM. EFF**	89.5					
AMPS	9/4.5					**PF**	69					
RATING	40C AMB-CONT											
RPM	1170				**MAX RPM**	1800						
FRAME	213TC	**HZ**	60	**CODE**	K	**CLASS**	H					
SER.F.	1.15	**SF AMP**				**PH**	3	**DES**	A			
DE	6307			**ODE**	6307							
LUBRICATION	POLYREX EM											
ID LOGO	**INVERTER TYPE**			**VPWM**		**CHP**	60	**TO**	90		1.5:1	
ID LOGO	**WK2**	1.19	**CT**	15	**TO**	60		4:1				
ID LOGO	**SL HZ**	1.5	**VT**	6	**TO**	60		10:1				
						QR						
YR												

AC Induction Motor Performance Data
Record # 58003
Typical performance - not guaranteed values

Winding: 37WGR922-R001	**Type:** 3748M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	13.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			9/4.5	**Breakdown Torque**	43.6 LB-FT
R.P.M.			1170	**Pull-up Torque**	27.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	33.9 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	33.6 A
Service Factor (S.F.)			1.15	**No-load Current**	2.55 A
NEMA Nom. Eff.	89.5	**Power Factor**	69	**Line-line Res. @ 25ºC**	2.4462 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	54°C
				Locked-rotor Power Factor	21.5

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	50	62	69	73	76	71
Efficiency	83.5	89.1	90.2	90.1	89.3	88.1	89.6
Speed	1193.4	1186.3	1178.9	1170.5	1161.2	1151.2	1165
Line amperes	2.73	3.17	3.77	4.51	5.37	6.32	5.03

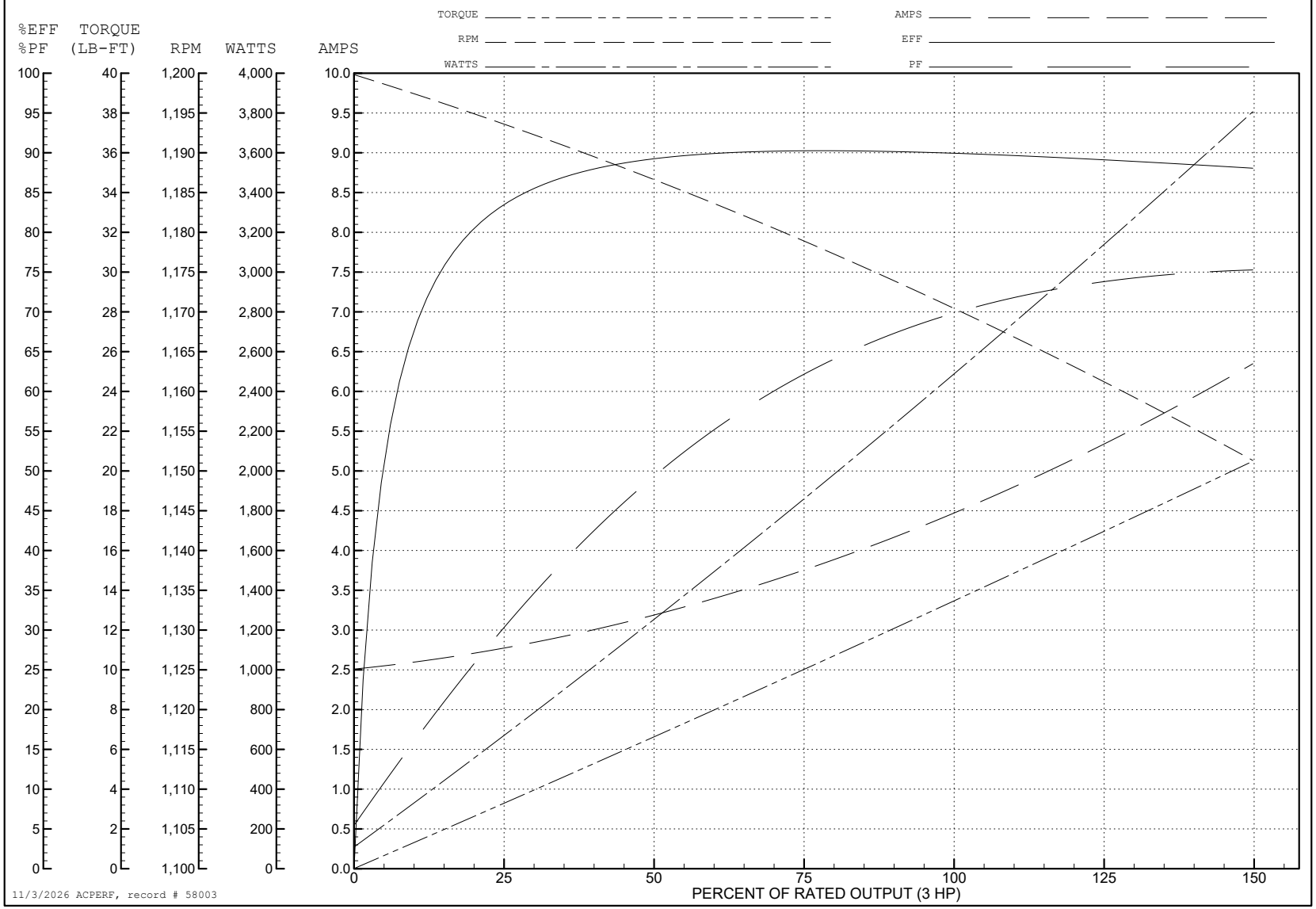
ABB Motors and Mechanical Inc.

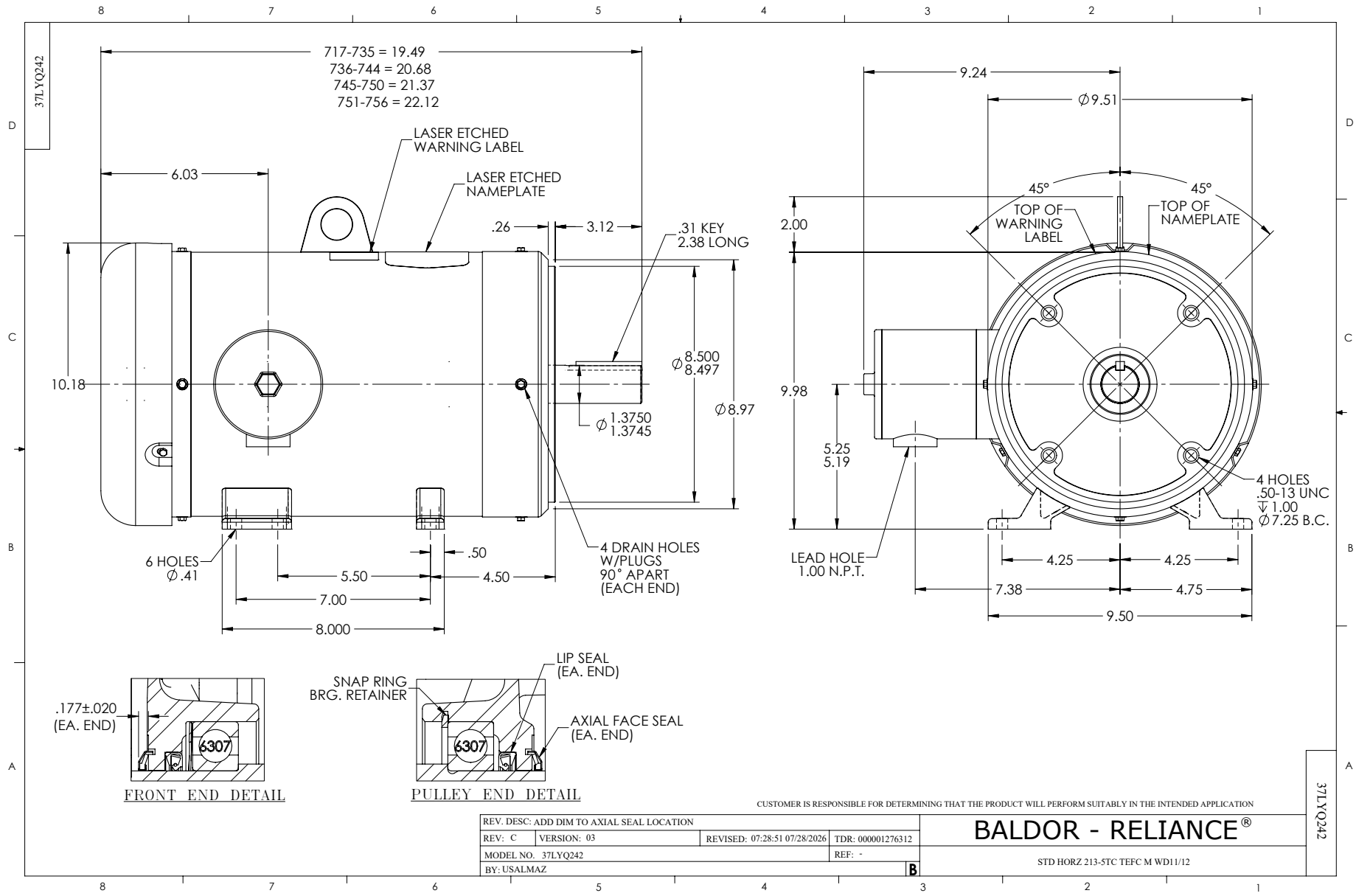
WINDING # 37WGR922

3 HP 3 PH 60 HZ 1170 RPM 460 V 3748M

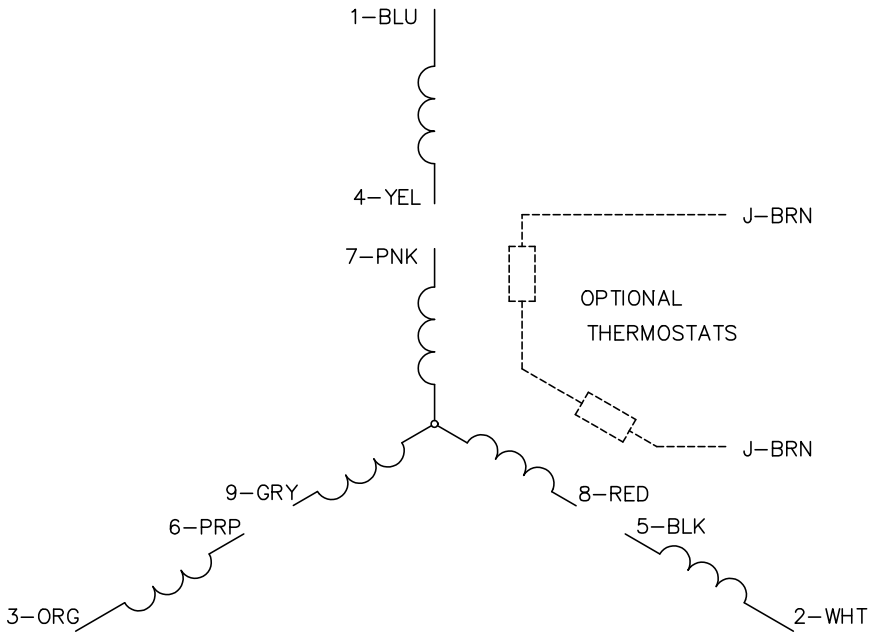
Typical performance - not guaranteed values.

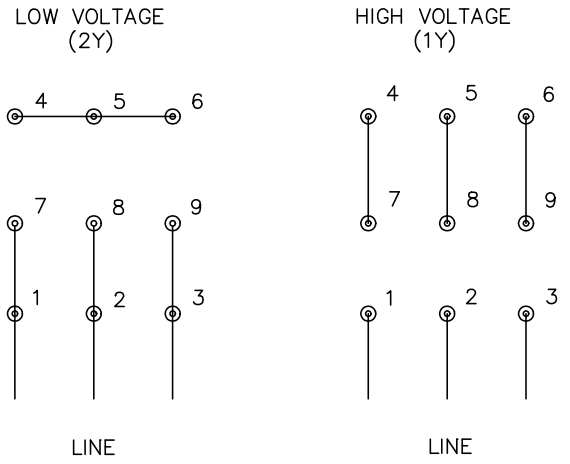
TORQUES(LB-FT): PO=43.6 PU=27.5 LR=33.9 LRA=33.6




37LYQ242
717-735 = 19.49
736-744 = 20.68
745-750 = 21.37
751-756 = 22.12
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
6.03
.26
3.12
.31 KEY 2.38 LONG
10.18
Ø8.500 8.497
Ø8.97
Ø1.3750 1.3745
6 HOLES Ø.41
.50
5.50
4.50
7.00
8.000
4 DRAIN HOLES W/PLUGS 90° APART (EACH END)
9.24
Ø9.51
45°
45°
TOP OF WARNING LABEL
TOP OF NAMEPLATE
2.00
9.98
5.25
5.19
LEAD HOLE 1.00 N.P.T.
4 HOLES .50-13 UNC ↧1.00 Ø7.25 B.C.
4.25
4.25
7.38
4.75
9.50
.177±.020 (EA. END)
6307
FRONT END DETAIL
SNAP RING BRG. RETAINER
LIP SEAL (EA. END)
AXIAL FACE SEAL (EA. END)
6307
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: C VERSION: 03 REVISED: 07:28:51 07/28/2026 TDR: 000001276312
MODEL NO. 37LYQ242 REF: -
BY: USALMAZ B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEFC M WD11/12
37LYQ242

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS