

ABB BALDOR RELIANCE III

Customer information packet

CXL21342

3HP, 1735RPM, 1PH, 60HZ, 215C, 3740L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	215C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA UL
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	17.200 A @ 230.0 V 34.400 A @ 115.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	17.2 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGA0037
Layout	37LY-000-351
Eff. date	08-04-2026
CD Diagram	CD0076
Poles	04
Leads	8#14
Proprietary	False
Created date	04-07-2021

IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.59 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSL									
NO.		CC							
SER.									
SPEC.	37-0000-0351								
CAT.NO.	CXL21342								
HP	3		T. CODE	T3C					
VOLTS	115/230								
AMPS	34.4/17.2								
RPM	1750								
HZ	60		PH	1		CL	F		
SER.F.	1.15		DES	-		CODE	K		
RATING	40C AMB-CONT								
FRAME	215C		NEMA-NOM-EFF					78.5	
		PF	71						
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 99433

Typical performance - not guaranteed values

Winding: 37WGA0037-R001			Type: 3740L		Enclosure: XPFC			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		3	Full Load Torque		8.992 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		34.4/17.2	Breakdown Torque		33.1 LB-FT			
R.P.M.		1750	Pull-up Torque		20 LB-FT			
Hz		60	Phase		1	Locked-rotor Torque	31.8 LB-FT	
NEMA Design Code		-	KVA Code		K	Starting Current		112.95 A
Service Factor (S.F.)		1.15	No-load Current		10.5 A			
NEMA Nom. Eff.		78.5	Power Factor		71	Line-line Res. @ 25°C		0.38356 Ω A Ph 2.2154 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		61°C	
S.F. Amps		38/19	Temp. Rise @ S.F. Load		72°C			

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	51	63	71	76	79	74
Efficiency	64.7	76.2	79.4	79.8	79.2	77.6	79.4
Speed	1787.7	1775.8	1762.6	1749.1	1732.4	1713	1739
Line amperes	11.1	12.5	14.6	17.1	20.2	23.7	19

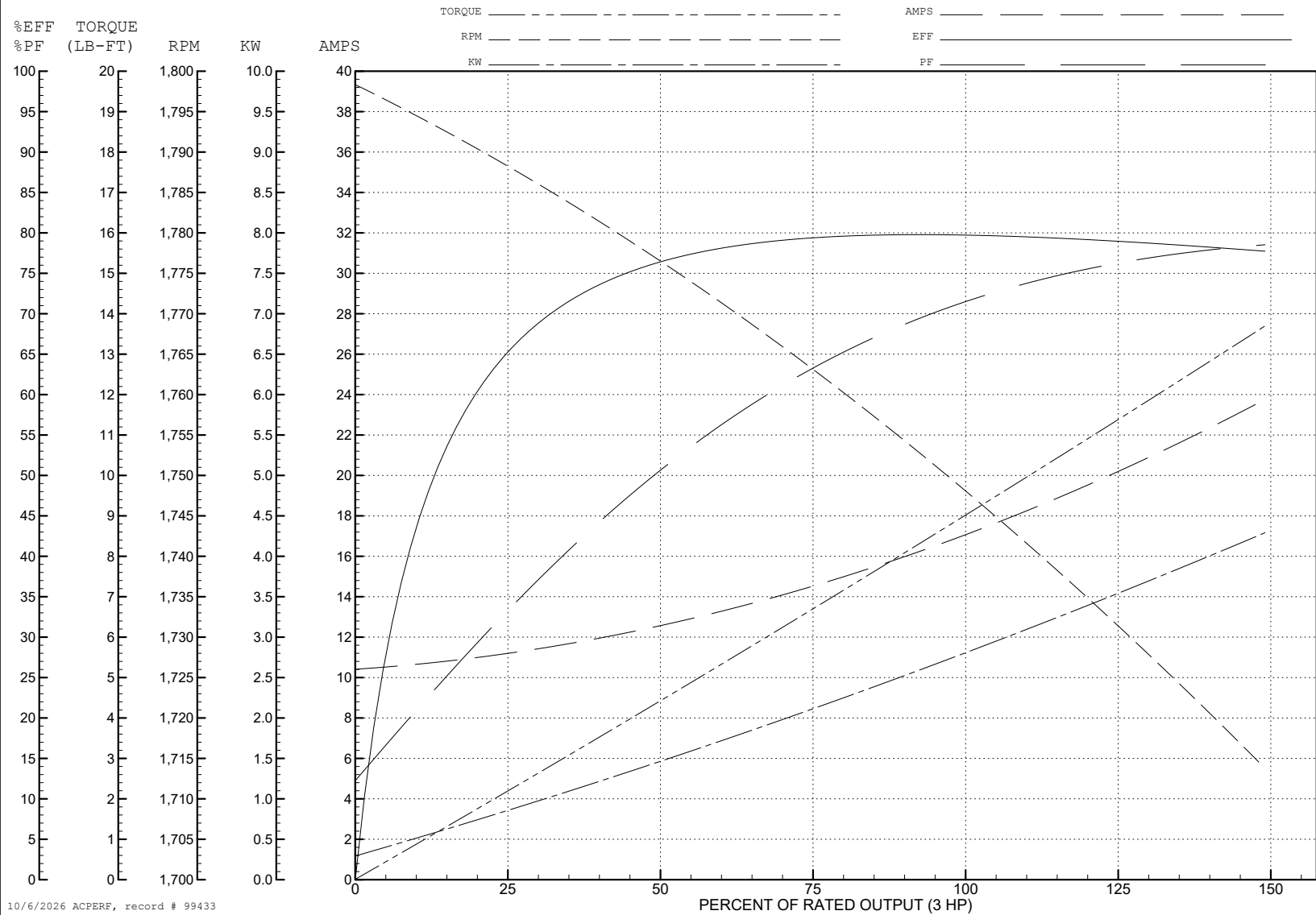
ABB Motors and Mechanical Inc.

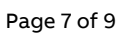
WINDING # 37WGA0037

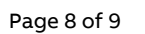
Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 1750 RPM 230 V 3740L

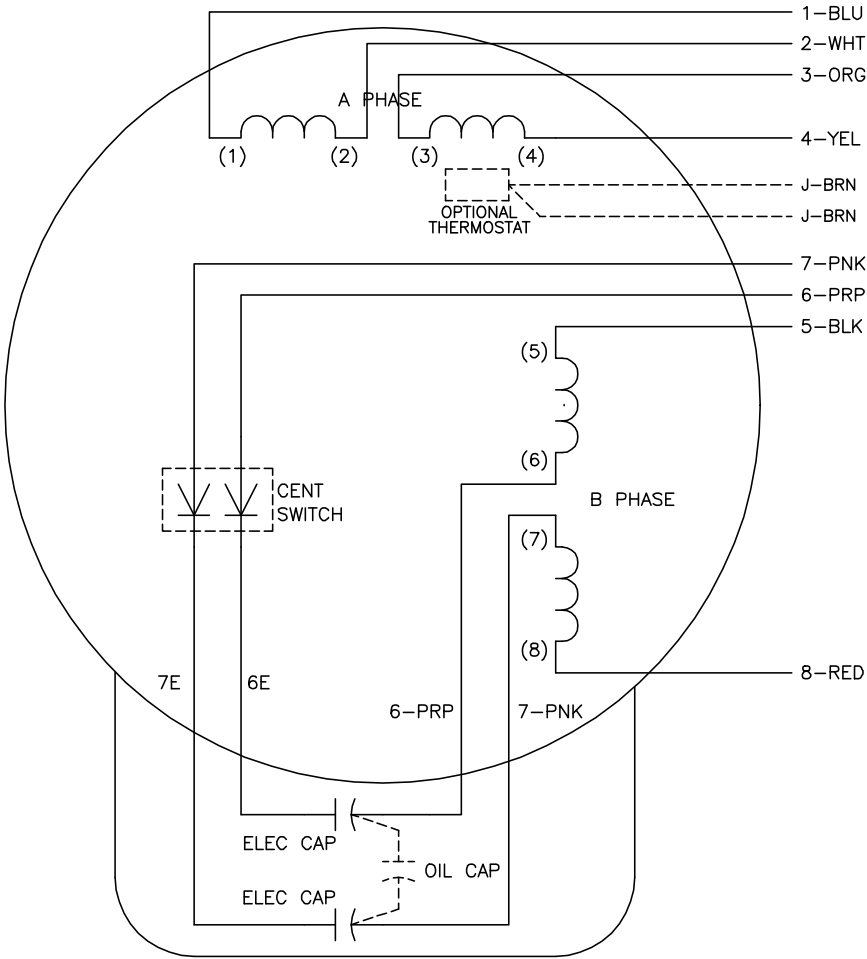
TORQUES (LB-FT): PO=33.1 PU=20 LR=31.8 LRA=112.95







CD0076



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4,5	2,3	6,7
HIGH OPP	1,5	4,8	2,3	6,7
LOW STD	1,3,6,8	2,4,5,7	—	—
LOW OPP	1,3,5,7	2,4,6,8	—	—

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
 3. OPTIONAL OIL CAP(S) ARE PROVIDED WHEN SPECIFIED. MULTIPLE OIL CAPS ARE CONNECTED IN PARALLEL.
 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD OPTIONAL COLORS		
REV. LTR: E	VERSION: 01	TDR: 000000372126
9Z00D0	FILE: \AAA\00007\419	REVISED: 15:44:39 09/28/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L OR LC, DV, REV, SERIES/PAR B PH, 8 LEAD

CD0076