

ABB BALDOR RELIANCE III

Customer information packet

VM7002A

.33HP, 1725RPM, 3PH, 60HZ, 56C, X3413M, XPFC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
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	Three Phase
Output @ Frequency	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA UR
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	.800 A @ 460.0 V 1.600 A @ 230.0 V 1.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	67.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AJ
Type	AC
Mech. spec.	34-5336
Base	
Status	PRD/A
Elec. spec.	34WG5723
Layout	34LY5336
Eff. date	05-01-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3413M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.22 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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 Location	EP

Nameplate

NP0016XP SL									
NO.		CC							
SER. #									
SPEC	34-5336-5723								
CAT.NO.	VM7002A								
H.P.	.33		T. CODE		T3C				
VOLTS	208-230/460 ENCL XPFC								
AMPS	1.8-1.6/.8								
R.P.M.	1725								
HZ	60		PH	3		CLASS		B	
SER.F.	1.00		DES	B		CODE		L	
RATING	40C AMB-CONT								
FRAME	56C					NEMA NOM. EFF		67	
		PF	57						
BLANK									

AC Induction Motor Performance Data

Record # 6820

Typical performance - not guaranteed values

Winding: 34WG5723-R001			Type: 3413M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.33	Full Load Torque		1 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		1.8-1.6/.8	Breakdown Torque		4.7 LB-FT	
R.P.M.		1725	Pull-up Torque		3.35 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		3.75 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		4.4 A	
Service Factor (S.F.)		1	No-load Current		0.7 A	
NEMA Nom. Eff.	67 Power Factor	57	Line-line Res. @ 25°C		49.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		47°C	

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	40	50	57	64	69
Efficiency	44	59	65	68	68	67
Speed	1788	1770	1760	1745	1730	1710
Line amperes	0.7	0.73	0.77	0.8	0.85	1

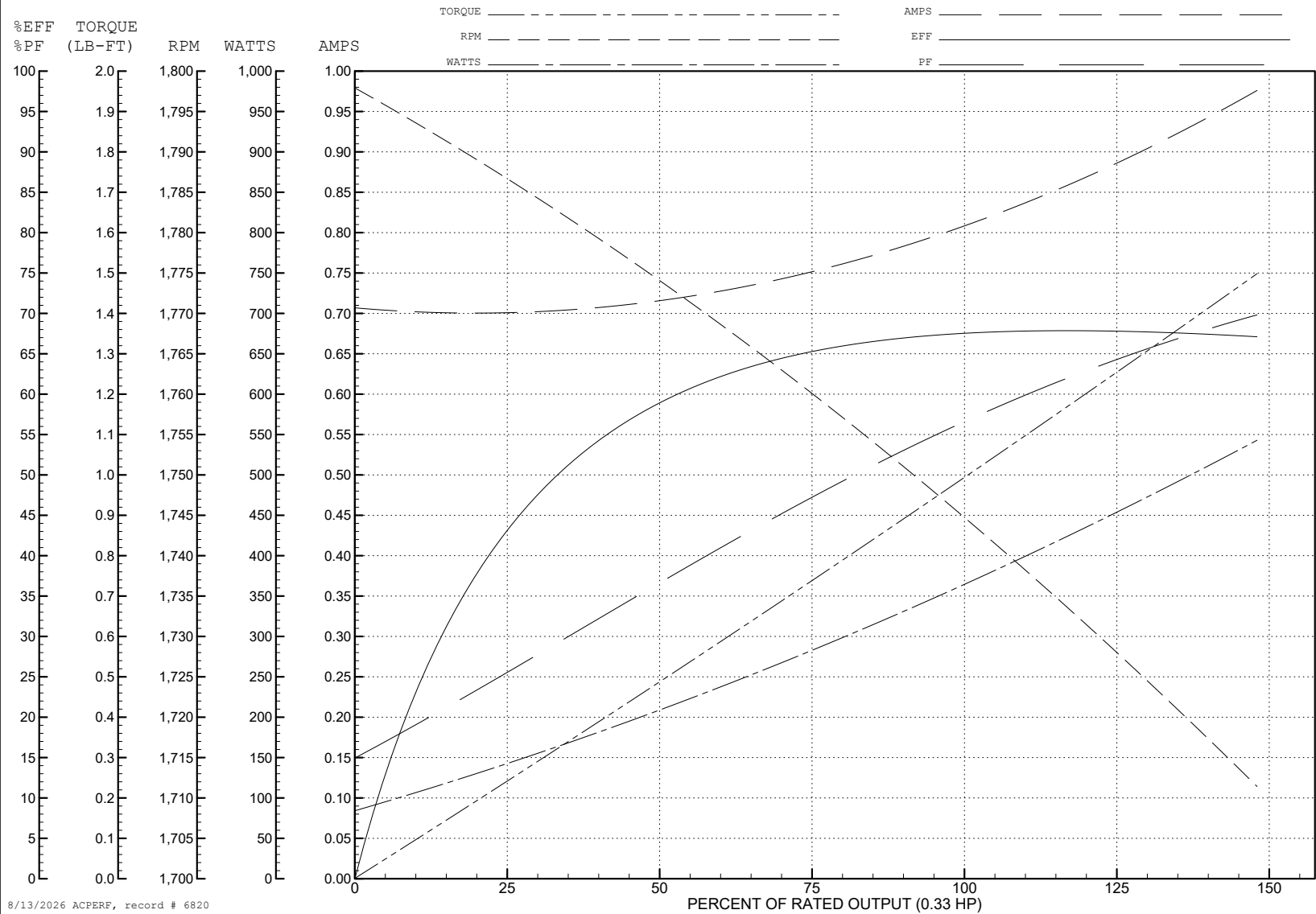
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WINDING # 34WG5723

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3413M

TORQUES (LB-FT) : PO=4.7 PU=3.35 LR=3.75 LRA=4.4



AC Induction Motor Performance Data

Record # 65177

Typical performance - not guaranteed values

Winding: 34WG5723-R001			Type: 3413M		Enclosure: XPFC		
Nameplate Data				230 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.33		Full Load Torque		1 LB-FT	
Volts		208-230/460		Start Configuration		direct on line	
Full Load Amps		1.8-1.6/.8		Breakdown Torque		4.7 LB-FT	
R.P.M.		1725		Pull-up Torque		3.35 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		3.75 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		8.8 A
Service Factor (S.F.)		1		No-load Current		1.4 A	
NEMA Nom. Eff.		67	Power Factor	57	Line-line Res. @ 25°C		12.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C	
				Locked-rotor Power Factor		69.4	
				Rotor inertia		0.031 LB-FT2	

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	26	37	47	57	67	68
Efficiency	44.1	59	65.1	67.9	67.9	66.9
Speed	1788	1770	1760	1745	1730	1710
Line amperes	1.4	1.46	1.54	1.6	1.7	2

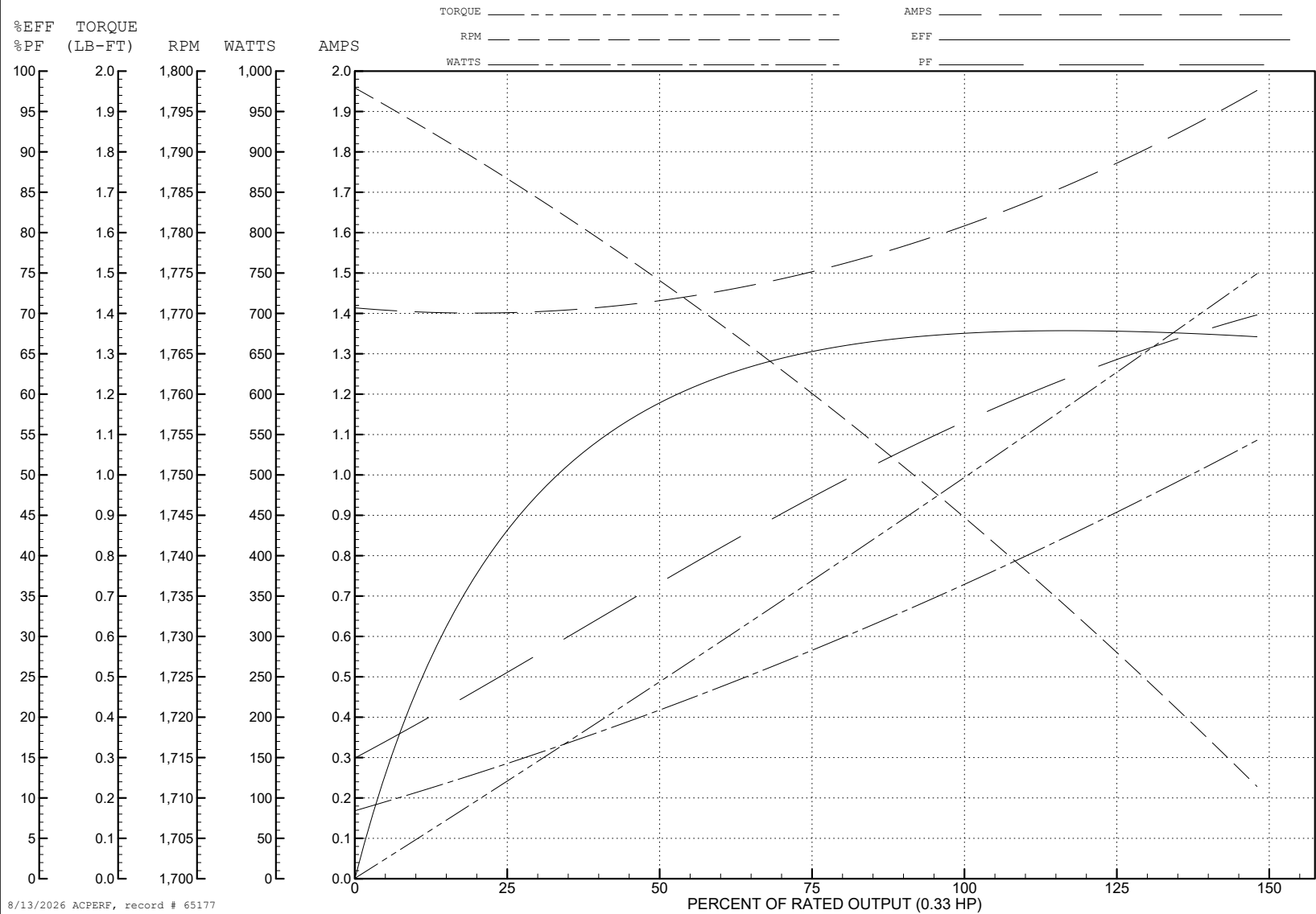
ABB Motors and Mechanical Inc.

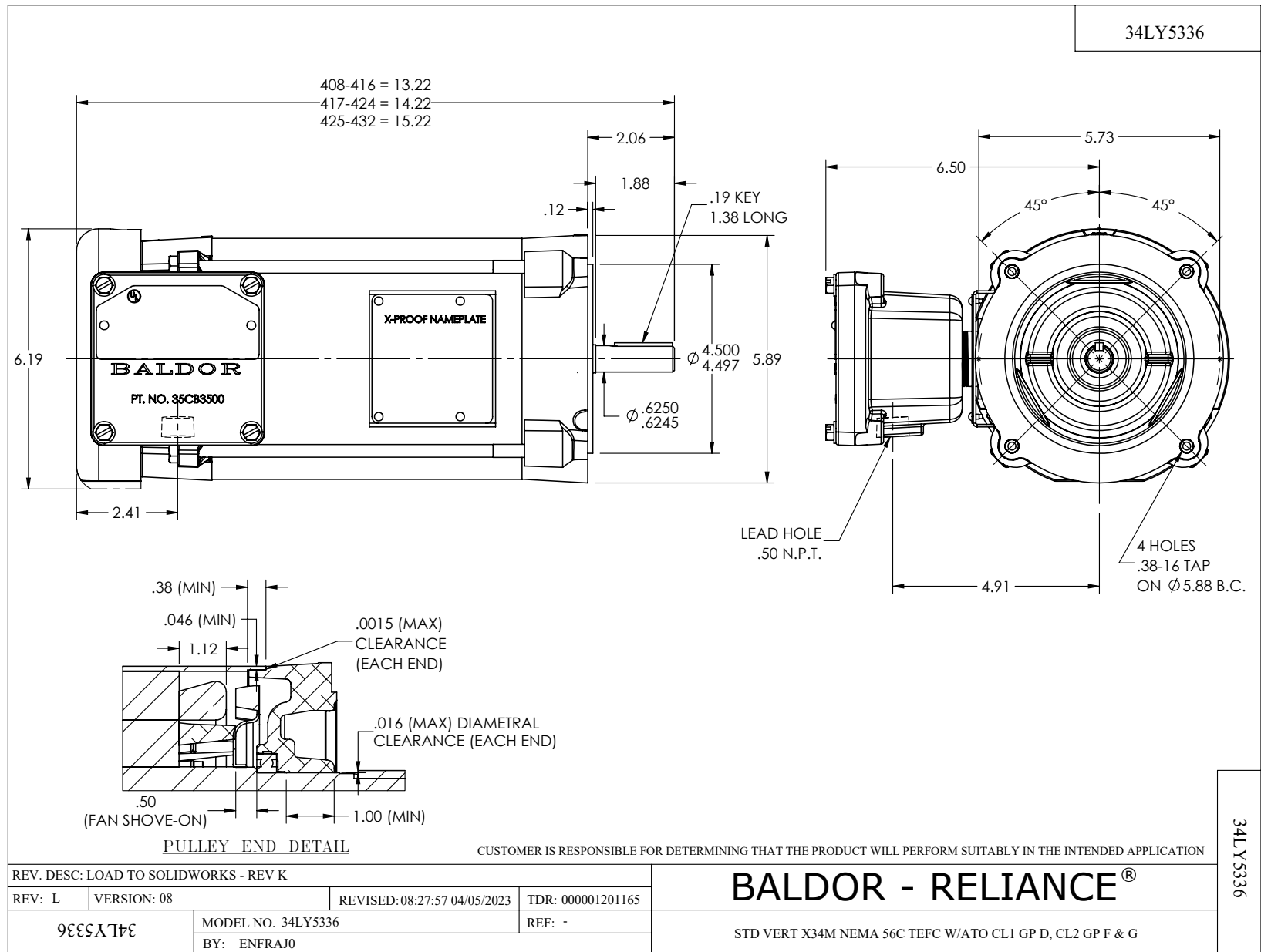
WINDING # 34WG5723

Typical performance - not guaranteed values.

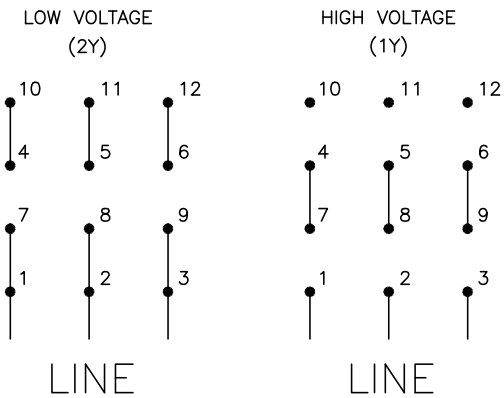
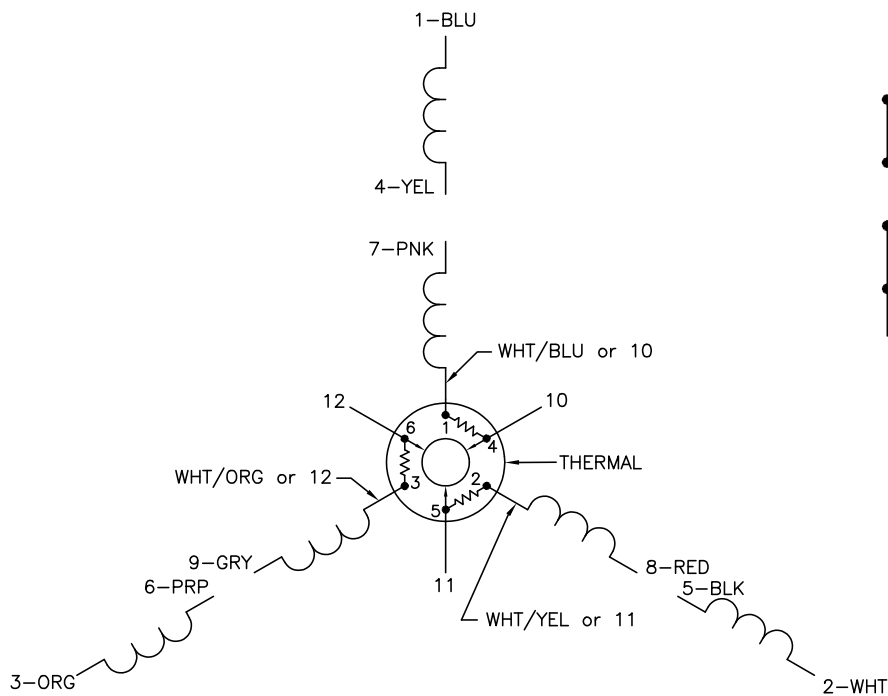
0.33 HP 3 PH 60 HZ 1725 RPM 230 V 3413M

TORQUES (LB-FT) : PO=4.7 PU=3.35 LR=3.75 LRA=8.8





CD0007



- NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
200000		FILE: AAA00008370	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS

CD0007