ABB BALDOR RELIANCE

Customer information packet

M3112A

.75HP, 1725RPM, 3PH, 60HZ, 56, 3420M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 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	UR
	CSA
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	1.500 A @ 460.0 V
	3.000 A @ 230.0 V
	3.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	R
Type	AC
Mech. spec.	34-1238
Base	
Status	INA/A
Elec. spec.	34WG2100
Layout	34LY1238
Eff. date	03-08-2017
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	1.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
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	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.25 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	M3112A										
SPEC.	34-1238-2100										
HP	.75										
VOLTS	230/460										
AMP	3/1.5										
RPM	1725										
FRAME	56		**HZ**	60		**PH**	3				
SER.F.	1.25	**CODE**	K	**DES**	B	**CL**	B				
NEMA-NOM-EFF	74	**PF**	60								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	OPEN	**SN**									
	SFA 3.4/1.7										

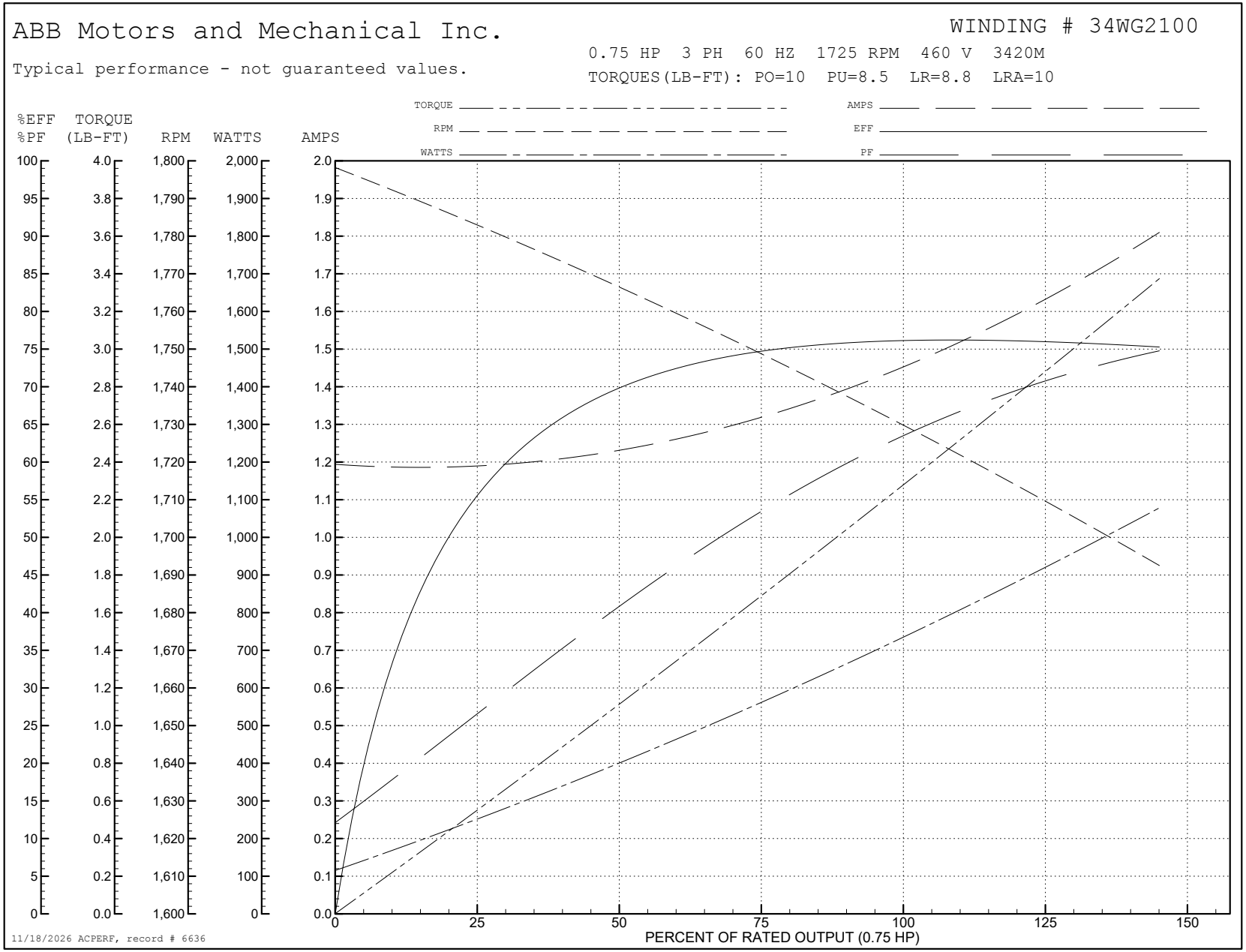
AC Induction Motor Performance Data
Record # 6636
Typical performance - not guaranteed values

Winding: 34WG2100-R001	**Type:** 3420M	**Enclosure:** OPEN

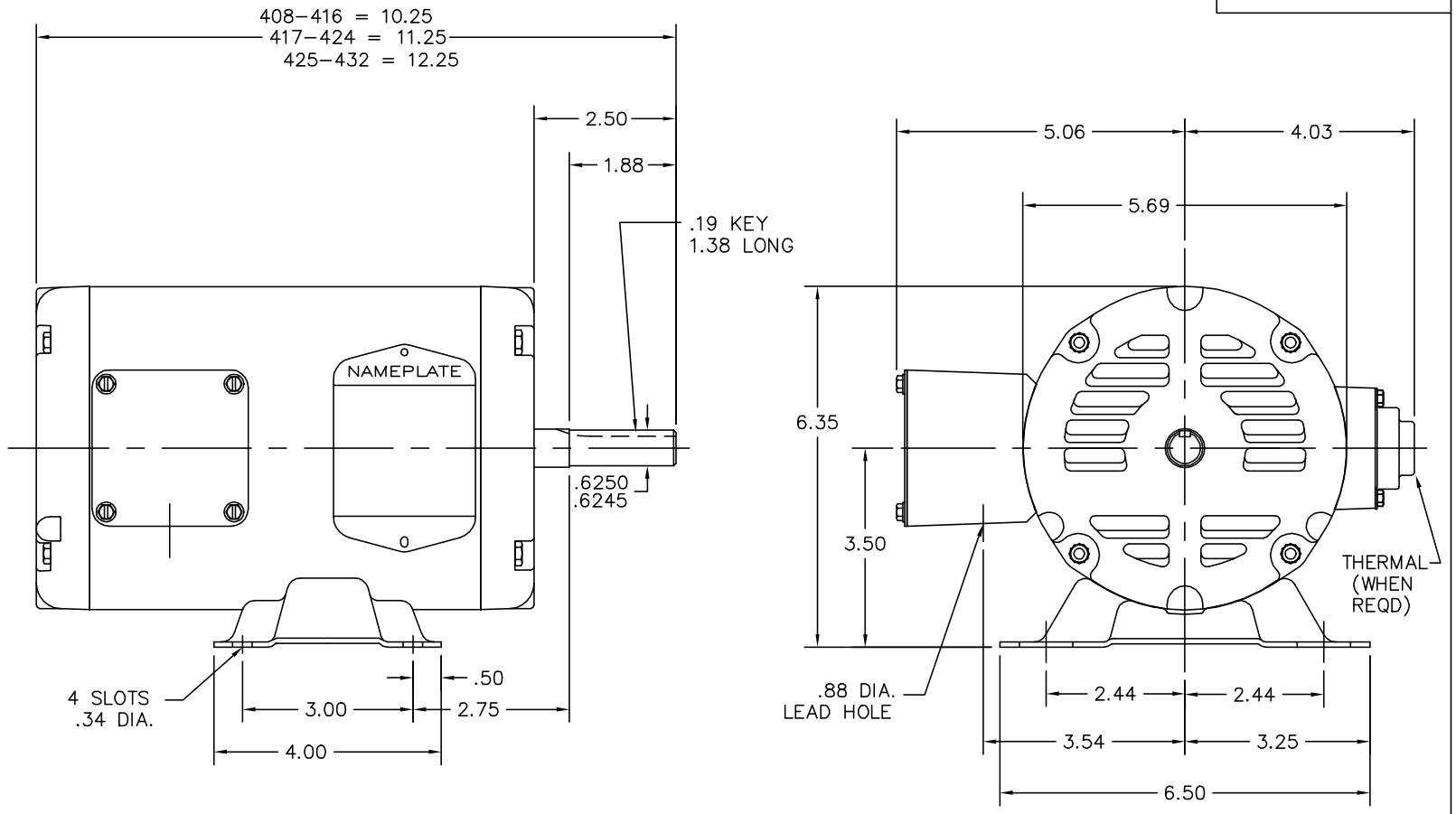
Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.75	**Full Load Torque**	2.25 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		3/1.5	**Breakdown Torque**	10 LB-FT
R.P.M.		1725	**Pull-up Torque**	8.5 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	8.8 LB-FT
NEMA Design Code	B **KVA Code**	K	**Starting Current**	10 A
Service Factor (S.F.)		1.25	**No-load Current**	1.2 A
NEMA Nom. Eff.	74 **Power Factor**	60	**Line-line Res. @ 25ºC**	17.68 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps		3.4/1.7	**Temp. Rise @ S.F. Load**	59°C
			Locked-rotor Power Factor	59
			Rotor inertia	0.0476 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	42	55	64	71	76	71
Efficiency	56.1	69.7	74.7	76.2	76.1	75.2	76.1
Speed	1783	1766	1749	1731	1711	1693	1711
Line amperes	1.2	1.2	1.3	1.5	1.6	1.8	1.6


ABB Motors and Mechanical Inc.
WINDING # 34WG2100
0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3420M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=10 PU=8.5 LR=8.8 LRA=10
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/18/2026 ACPERF, record # 6636

34LY1238

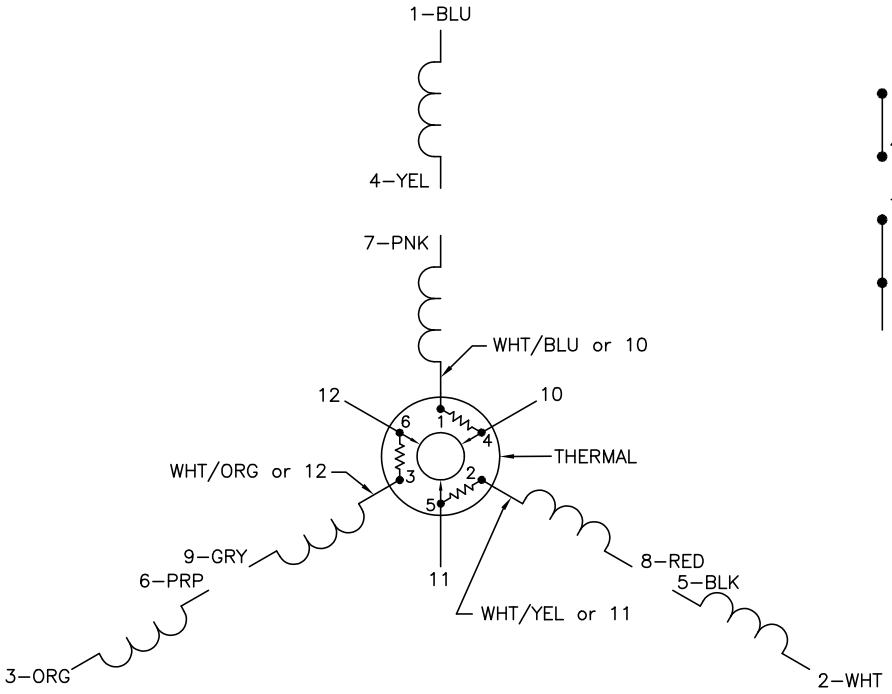


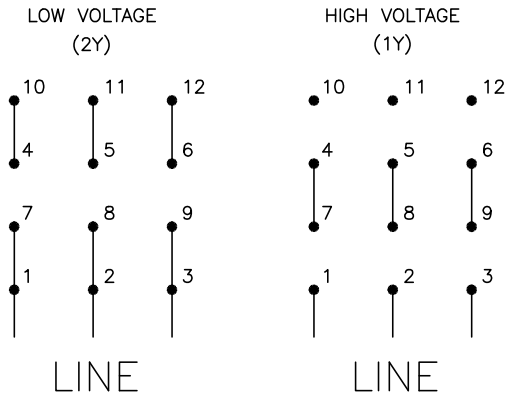
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: NEW KBOX & LID			BALDOR ELECTRIC Co.
REV. LTR: D	BY: RT	REVISED: 08:18:35 10/08/2003	TDR: 314127
34LY1238		FILE: AAA00026160	REF: 34LY1238
		MTL: –	STD HORZ 34M NEMA 56 OPEN

34LY1238

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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007