

ABB BALDOR RELIANCE III

Customer information packet

CHM545A

1HP, 1725RPM, 3PH, 60HZ, 56YZ, 3428M, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	56YZ
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.400 A @ 230.0 V 3.400 A @ 208.0 V 1.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	K
Type	AC
Mech. spec.	34M249
Base	
Status	PRD/A
Elec. spec.	34WGR237
Layout	34LYM249
Eff. date	10-28-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	10-21-2014

High Voltage Full Load Amps	1.7 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	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.58 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
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	EP

Winding Thermal 2

None

Nameplate

NP1257L									
CAT.NO.	CHM545A								
SPEC.	34M249R237G1								
HP	1								
VOLTS	208-230/460								
AMP	3.4/1.7								
RPM	1725								
FRAME	56YZ		HZ	60		PH	3		
SER.F.	1.15	CODE	L	DES	B	CL	B		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	TEAO	SN							

AC Induction Motor Performance Data

Record # 51607

Typical performance - not guaranteed values

Winding: 34WGR237-R001			Type: 3428M		Enclosure: TEAO		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		3.04 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		3.4/1.7	Breakdown Torque		12.8 LB-FT		
R.P.M.		1725	Pull-up Torque		9.75 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		11.4 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		12.3 A
Service Factor (S.F.)		1.15	No-load Current		1.09 A		
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		15.373 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		
				Locked-rotor Power Factor		66	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	52	63	72	77	81	75
Efficiency	60.2	72.6	77	78.6	79.2	78.5	79
Speed	1783.6	1768.9	1753.9	1738.1	1720.5	1702.1	1728
Line amperes	1.16	1.28	1.46	1.67	1.91	2.18	1.81

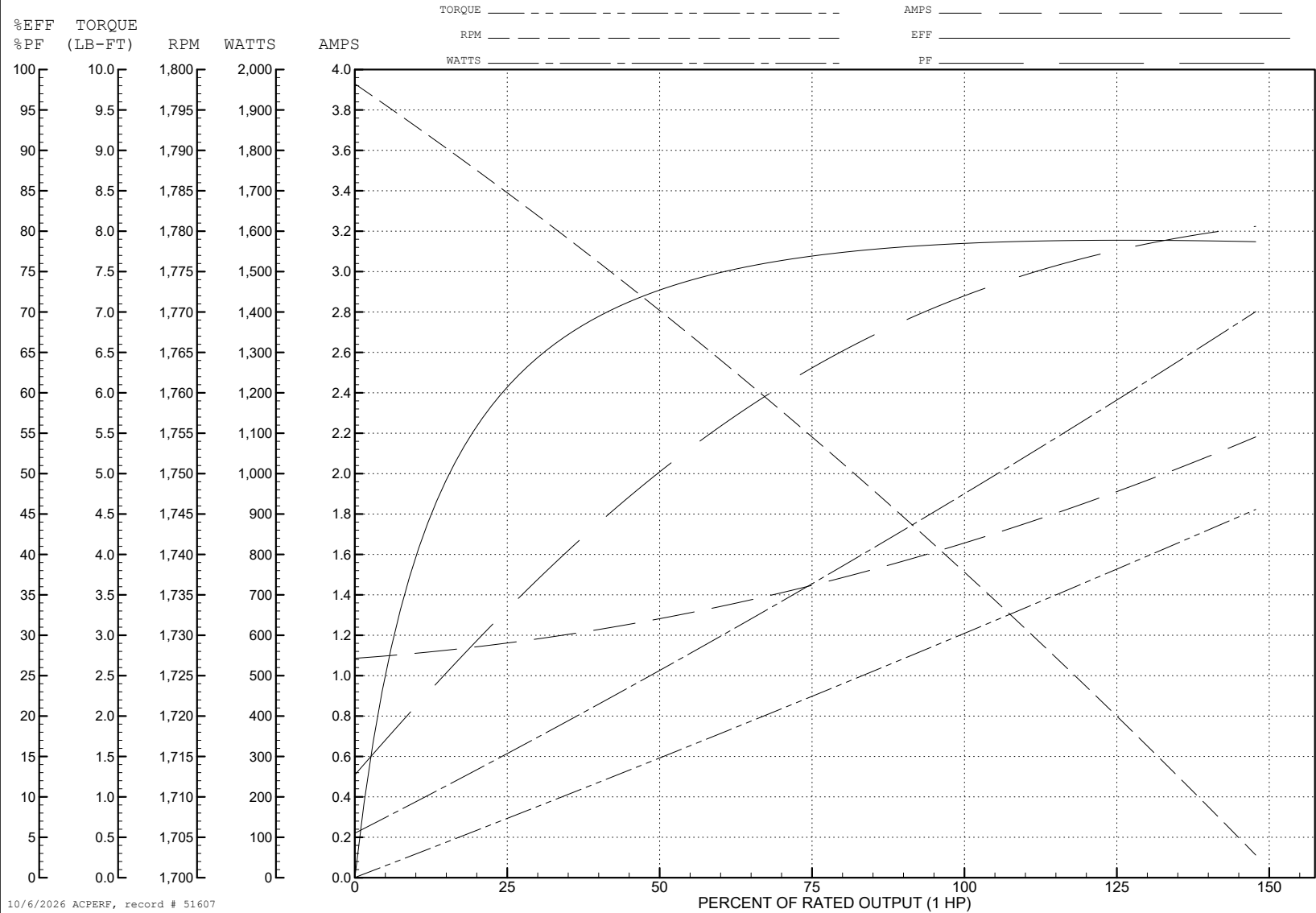
ABB Motors and Mechanical Inc.

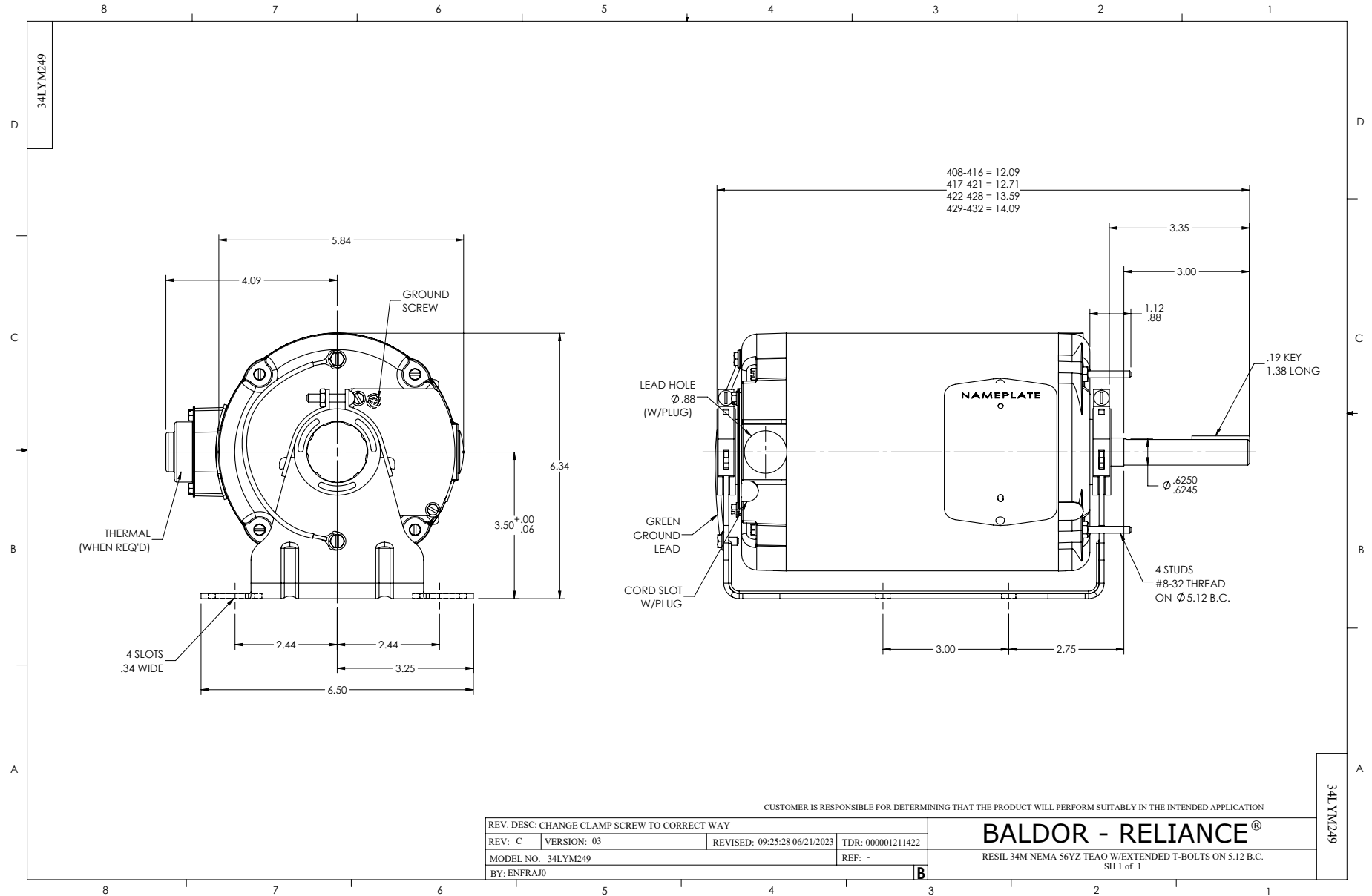
WINDING # 34WGR237

Typical performance - not guaranteed values.

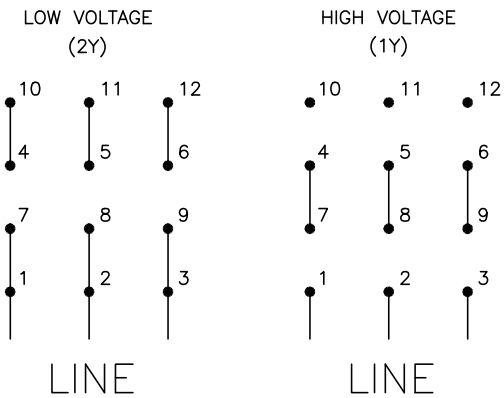
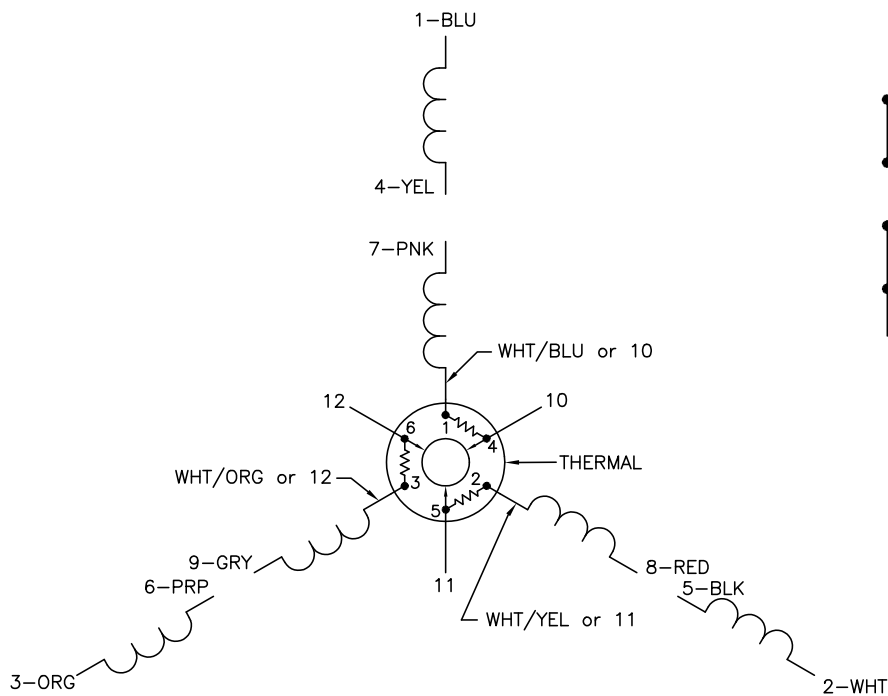
1 HP 3 PH 60 HZ 1725 RPM 460 V 3428M

TORQUES (LB-FT): PO=12.8 PU=9.75 LR=11.4 LRA=12.3





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.

CD0007

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