

ABB BALDOR RELIANCE III

Customer information packet

AOM3538

.5HP, 1725RPM, 3PH, 60HZ, 56, 3413M, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
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	.500 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.400 A @ 208.0 V 2.200 A @ 230.0 V 1.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	T
Type	AC
Mech. spec.	34T045
Base	
Status	PRD/A
Elec. spec.	34WGW138
Layout	34LYT045
Eff. date	10-28-2024
CD Diagram	CD0005
Poles	04
Leads	9#18 36" LG Y
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	1.1 a
Insulation Class	F
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	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3413M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.25 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	1.00
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

Nameplate

NP1256L											
CAT.NO.	AOM3538										
SPEC.	34T45W138										
HP	.5 AIR OVER										
VOLTS	208-230/460										
AMP	2.4-2.2/1.1										
RPM	1725										
FRAME	56			HZ	60				PH	3	
SER.F.	1.00		CODE	L	DES	B		CLASS		F	
NEMA-NOM-EFF	70		PF	60							
RATING	40C AMB-CONT										
CC											
DE	6203			ODE	6203						
ENCL	TEAO		SN								
	1000 FPM AT 44 CFM										

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 6894

Typical performance - not guaranteed values

Winding: 34WGW138-R001			Type: 3413M		Enclosure: TEAO		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5 AIR OVER	Full Load Torque		1.5 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		2.4-2.2/1.1	Breakdown Torque		5.7 LB-FT		
R.P.M.		1725	Pull-up Torque		4.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		5.3 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		6.2 A
Service Factor (S.F.)		1		No-load Current		1.02 A	
NEMA Nom. Eff.		70	Power Factor	60	Line-line Res. @ 25°C		35.4 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		70°C	
				Locked-rotor Power Factor		67	
				Rotor inertia		0.031 LB-FT2	

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	27	38	48	57	65	71
Efficiency	42	58	65	69	70	71
Speed	1779	1762	1743	1723	1701	1677
Line amperes	1.03	1.06	1.11	1.18	1.27	1.39

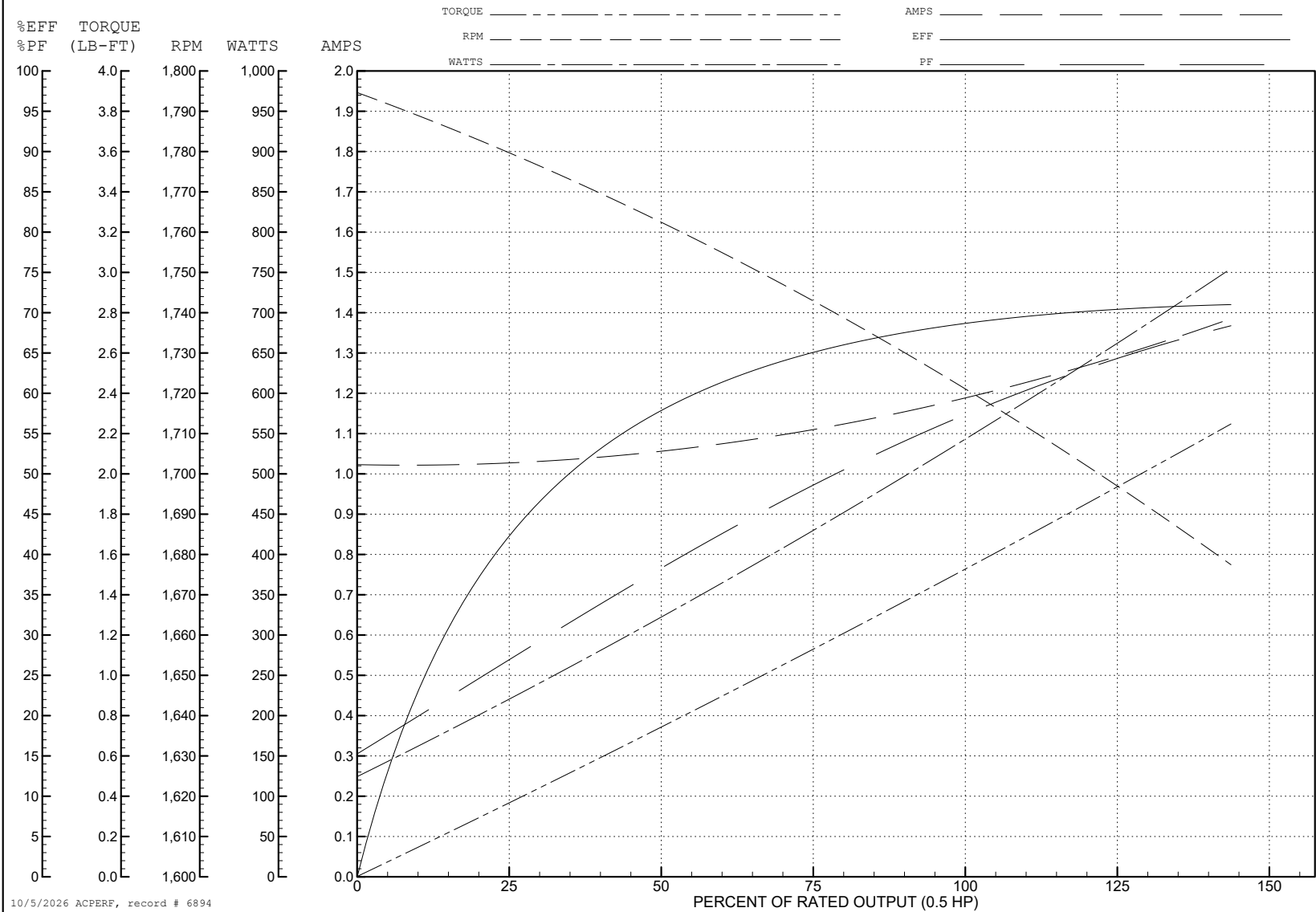
ABB Motors and Mechanical Inc.

WINDING # 34WGW138

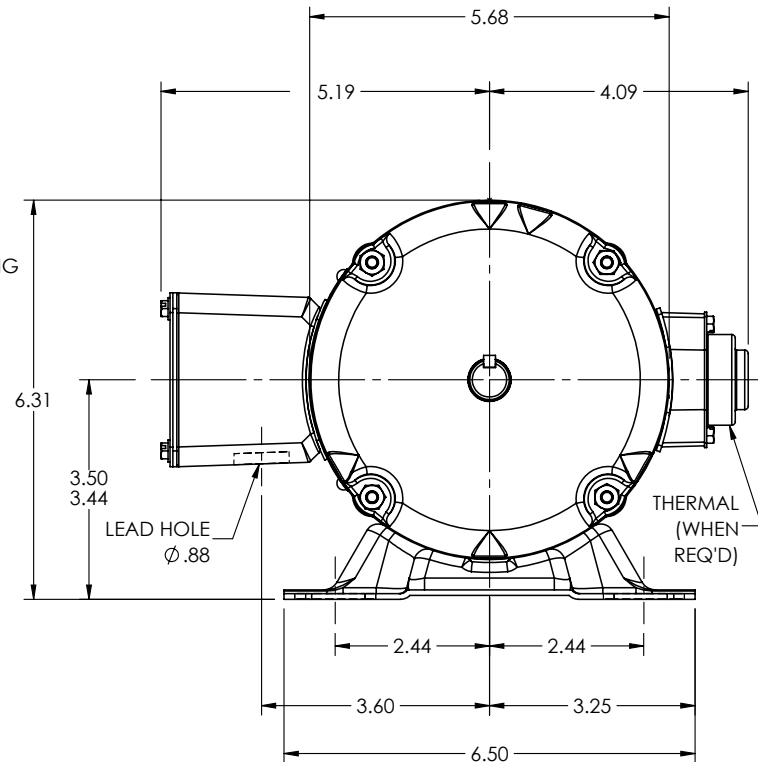
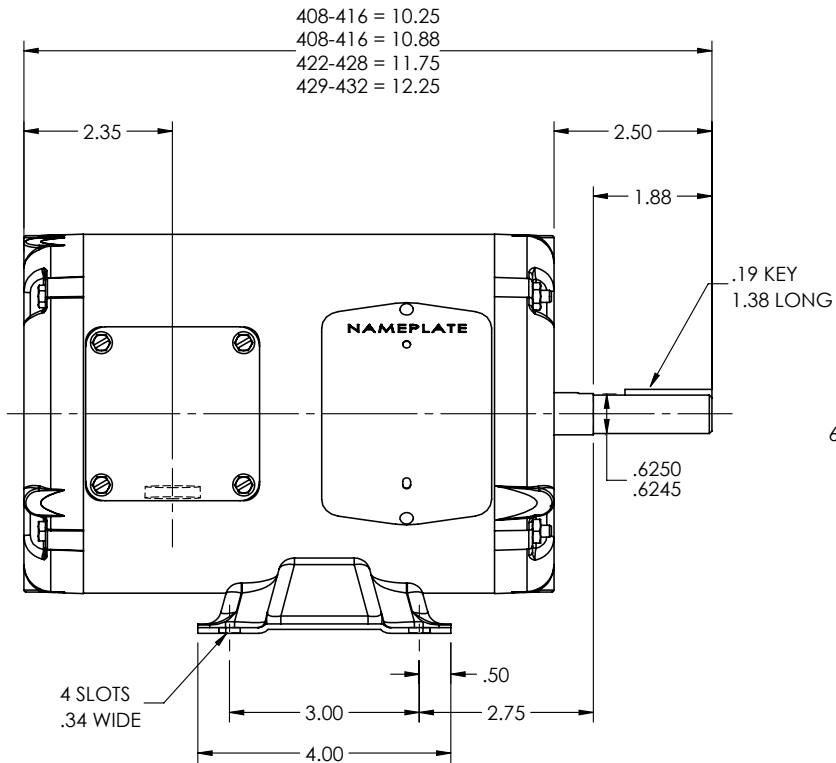
Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=5.7 PU=4.2 LR=5.3 LRA=6.2



34LYT045



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS - REV D

REV: E

VERSION: 02

REVISED: 03:33:19 01/03/2023

TDR: 000001201165

34LYT045

MODEL NO. 34LYT045

BY: ENFRAJ0

REF: -

BALDOR - RELIANCE®

STD HORZ MODEL 34M NEMA 56 TEAO

34LYT045

