

ABB BALDOR RELIANCE III

Customer information packet

RM3120

1.5HP, 3450RPM, 3PH, 60HZ, 56H, 3424M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56HH
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 460.0 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	5.300 A @ 208.0 V 4.900 A @ 208.0 V 4.600 A @ 230.0 V 2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount

Part Detail

Revision	V
Type	AC
Mech. spec.	34K065
Base	
Status	NLA/A
Elec. spec.	34WG0283
Layout	34LYK065
Eff. date	01-23-2015
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 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
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.47 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	3450 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.	RM3120										
SPEC.	34K65-283										
HP	1.5										
VOLTS	208-230/460										
AMP	4.9-4.6/2.3										
RPM	3450										
FRAME	56HH		HZ		60		PH		3		
SER.F.	1.15	CODE		L	DES	B	CLASS		B		
NEMA-NOM-EFF	80	PF		74							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE		6203						
ENCL	OPEN	SN									
	SFA 5.3-5/2.5										

AC Induction Motor Performance Data

Record # 6569

Typical performance - not guaranteed values

Winding: 34WG0283-R001			Type: 3424M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		2.25 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		4.9-4.6/2.3	Breakdown Torque		10.6 LB-FT		
R.P.M.		3450	Pull-up Torque		10 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		11.7 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		18.4 A
Service Factor (S.F.)		1.15		No-load Current		1.4 A	
NEMA Nom. Eff.		80	Power Factor	74	Line-line Res. @ 25°C		8.53 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		71°C	
S.F. Amps		5.3-5/2.5		Temp. Rise @ S.F. Load		83°C	
				Locked-rotor Power Factor		67	
				Rotor inertia		0.0223 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	57	68	76	81	84	79
Efficiency	70.7	79.6	81.8	82.3	81.7	80.6	81.9
Speed	3564	3533	3501	3466	3429	3394	3444
Line amperes	1.5	1.7	2	2.3	2.7	3	2.54

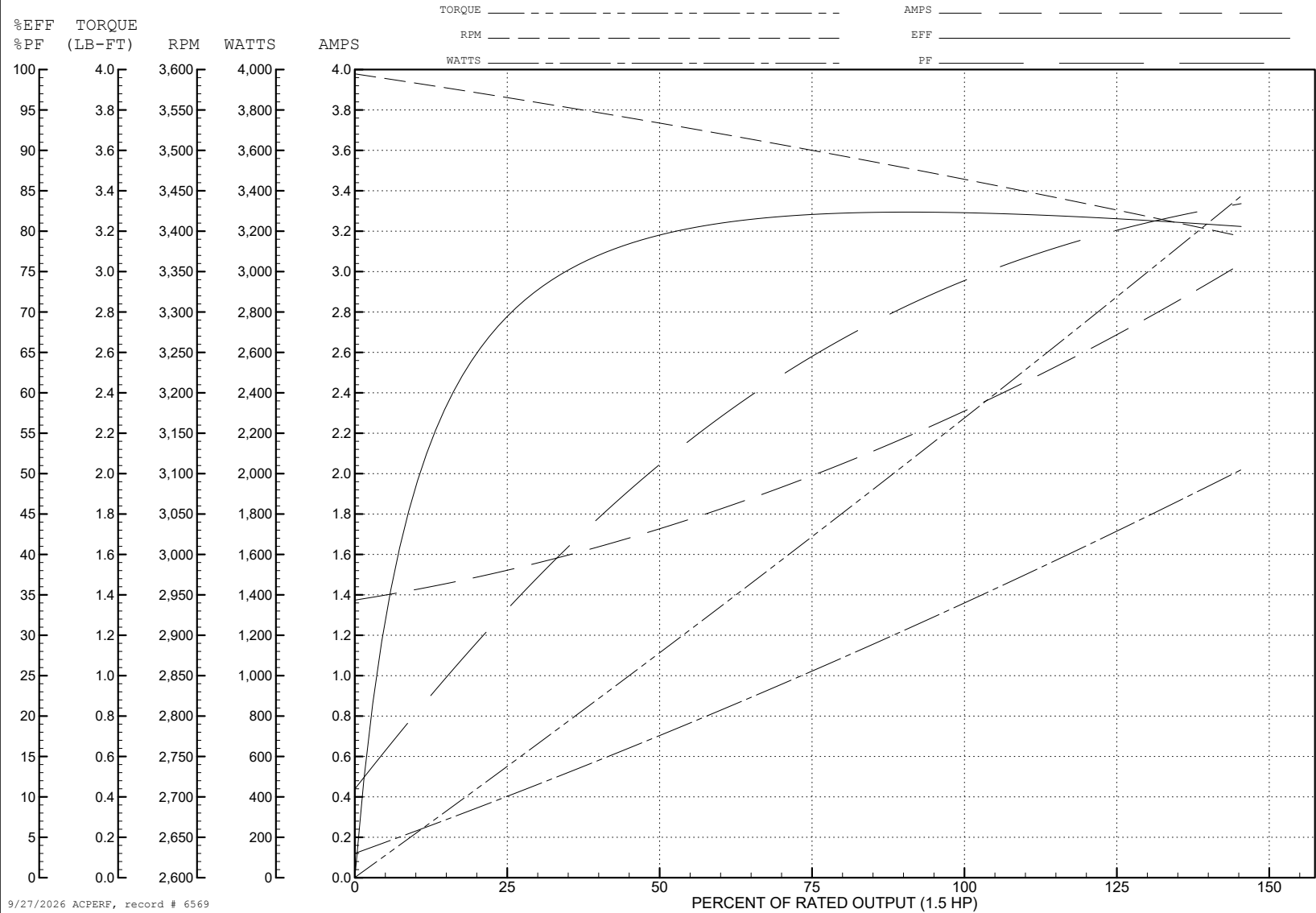
ABB Motors and Mechanical Inc.

WINDING # 34WG0283

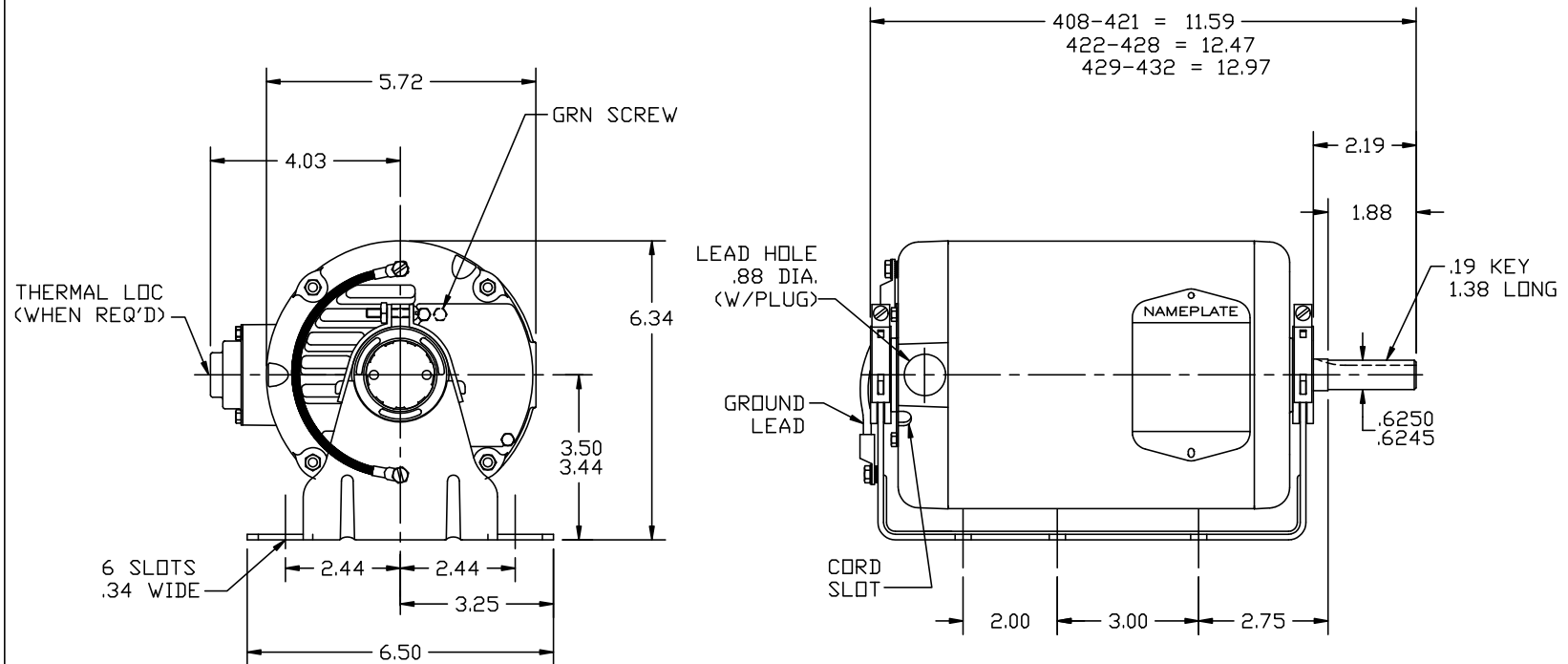
Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3450 RPM 460 V 3424M

TORQUES (LB-FT): PO=10.6 PU=10 LR=11.7 LRA=18.4



34K065



CUST. NAME		CUST. P.O.		CERTIFIED BY		MODEL		INSUL		AMB							
H.P.		MTG		TYPE		R.P.M.		VOLTS		ENCL		PHASE		FREQ		FRAME	
REMARKS:										BALDOR ELECTRIC Co.							
REV:		D	MOVED TO ACAD														
G90K4C		REF: 34K15		BY: MW		REVISED: 01/13/96											
		FILE: AAA00026679			TDR: 0087130			STD RESIL MTD MODEL 34M NEMA 56H OPEN MTR W/TERM PANEL									

34K065

