

ABB BALDOR RELIANCE III

Customer information packet

CM3539

.5HP, 1140RPM, 3PH, 60HZ, 56C, 3418M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUS C UR US
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	1.200 A @ 460.0 V 2.400 A @ 230.0 V 2.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
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	AA
Type	AC
Mech. spec.	34A062
Base	
Status	PRD/A
Elec. spec.	34WG5884
Layout	34LYA062
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	1.2 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3418M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.35 IN
Power Factor	55
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	1.25
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	1140 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	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	CM3539										
SPEC.	34A62-5884										
HP	.5										
VOLTS	230/460										
AMP	2.4/1.2										
RPM	1140										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.25		CODE	J		DES	B	CLASS	B		
NEMA-NOM-EFF	72		PF	55							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TEFC		SN								
	SFA 2.6/1.3										

Parts List

Part number	Description	Quantity
SA009836	SA 34A62-5884	1.000 ea
RA006281	RA 34A62-5884	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A24SP	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea

AC Induction Motor Performance Data

Record # 23697

Typical performance - not guaranteed values

Winding: 34WG5884-R001			Type: 3418M		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		2.3 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2.4/1.2	Breakdown Torque		7.7 LB-FT		
R.P.M.		1140	Pull-up Torque		6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		6.2 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		10 A
Service Factor (S.F.)		1.25	No-load Current		1.9 A		
NEMA Nom. Eff.		72	Power Factor	55	Line-line Res. @ 25°C		9.51 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C
S.F. Amps		2.6/1.3	Temp. Rise @ S.F. Load		77°C		
			Locked-rotor Power Factor		63		
			Rotor inertia		0.0428 LB-FT2		

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	38	48	54	61	64	61
Efficiency	47.9	63.1	67.3	72	72.2	71	72.2
Speed	1185	1170	1155	1140	1120	1100	1120
Line amperes	1.9	2	2.2	2.4	2.6	3	2.6

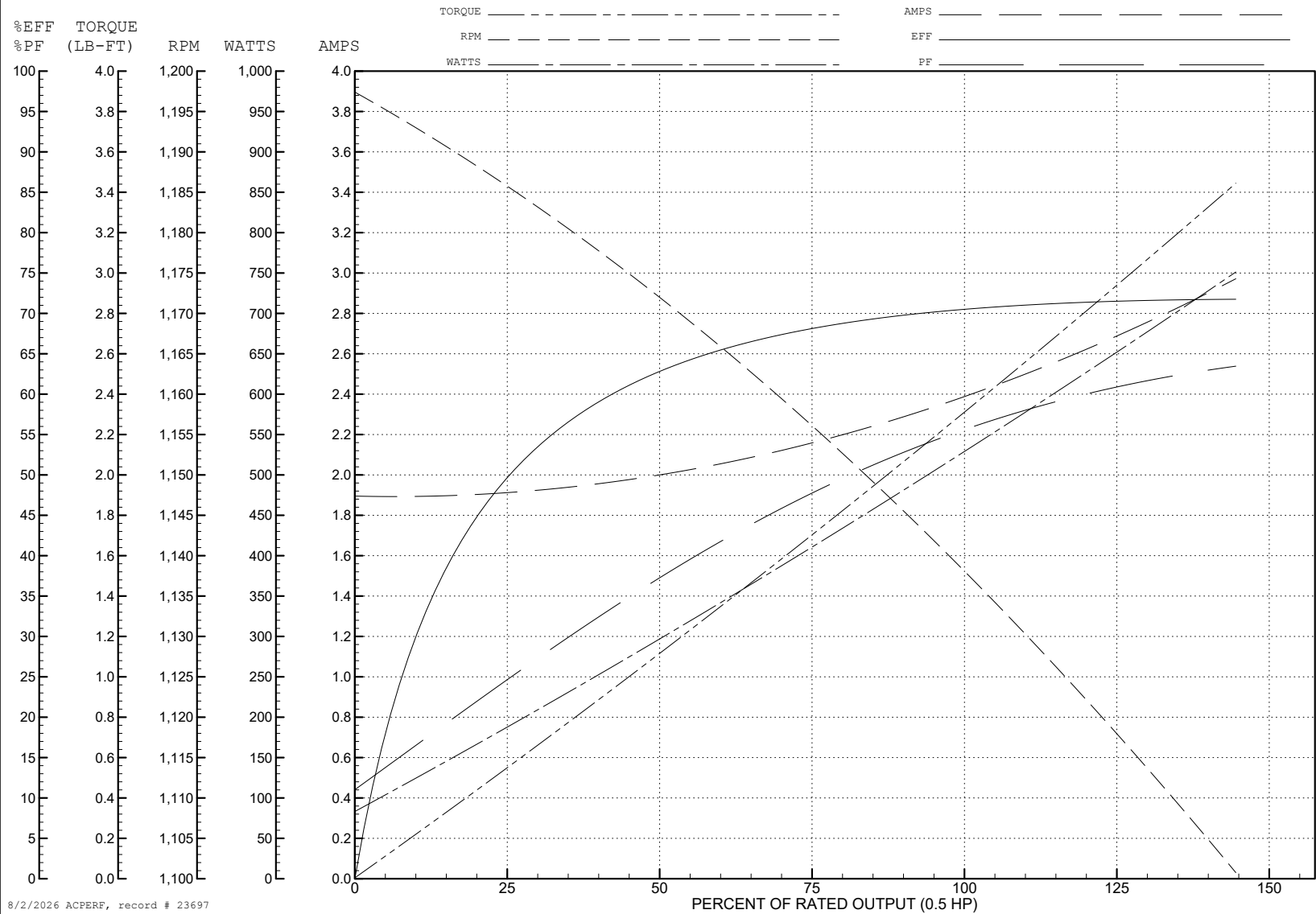
ABB Motors and Mechanical Inc.

WINDING # 34WG5884

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1140 RPM 230 V 3418M

TORQUES (LB-FT) : PO=7.7 PU=6 LR=6.2 LRA=10



AC Induction Motor Performance Data

Record # 6835

Typical performance - not guaranteed values

Winding: 34WG5884-R001			Type: 3418M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.5	Full Load Torque		2.3 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		2.4/1.2	Breakdown Torque		7.7 LB-FT			
R.P.M.		1140	Pull-up Torque		6 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		6.2 LB-FT		
NEMA Design Code		B	KVA Code	J	Starting Current		5 A	
Service Factor (S.F.)		1.25	No-load Current		0.95 A			
NEMA Nom. Eff.		72	Power Factor		55	Line-line Res. @ 25°C		39.6 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C	
S.F. Amps		2.6/1.3	Temp. Rise @ S.F. Load		77°C			

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	20	34	45	55	62	68	62
Efficiency	48	63	67	72	72	71	72
Speed	1185	1170	1155	1140	1120	1100	1120
Line amperes	0.95	1	1.1	1.2	1.3	1.5	1.3

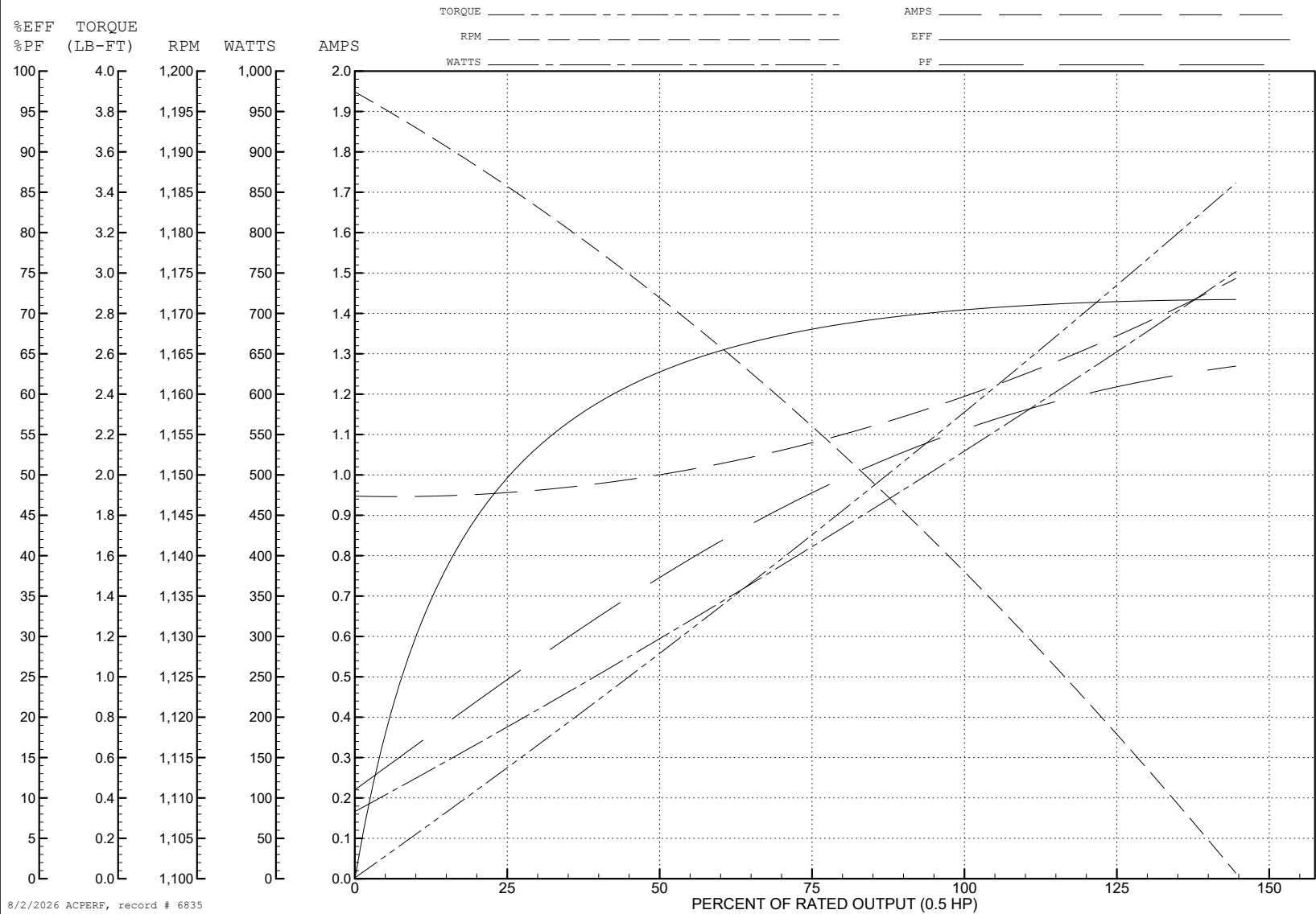
ABB Motors and Mechanical Inc.

WINDING # 34WG5884

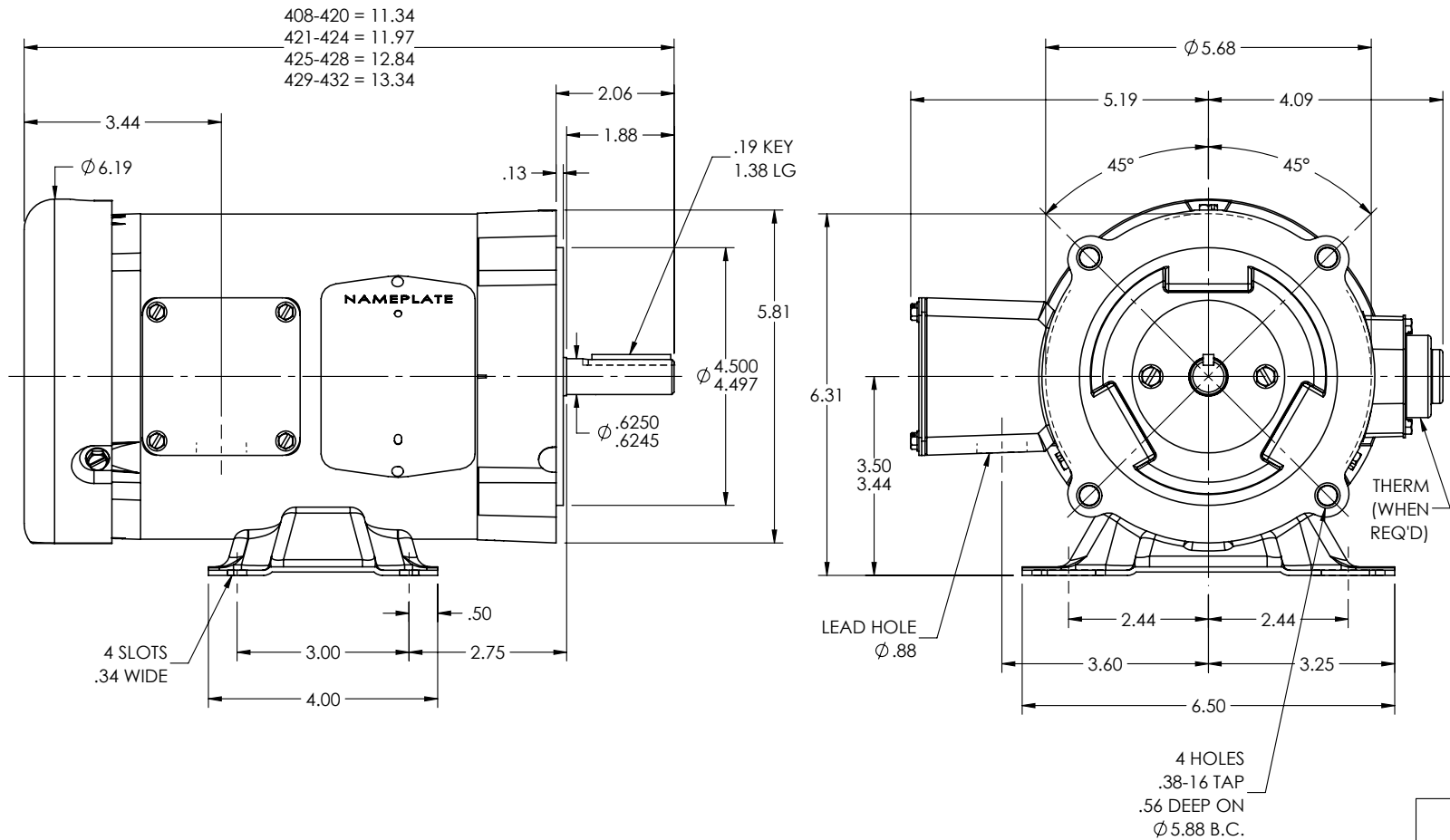
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1140 RPM 460 V 3418M

TORQUES (LB-FT) : PO=7.7 PU=6 LR=6.2 LRA=5



34LYA062



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

REV. DESC: CLEAN UP DIMENSIONING

REV: U VERSION: 06 REVISED: 10:13:09 10/31/2024 TDR: 000001243684

34LYA062

MODEL NO. 34LYA062

BY: ENJEFD0

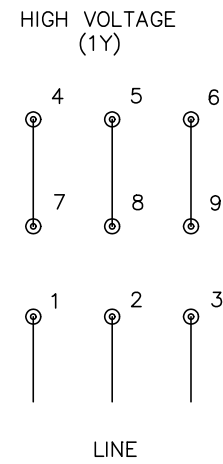
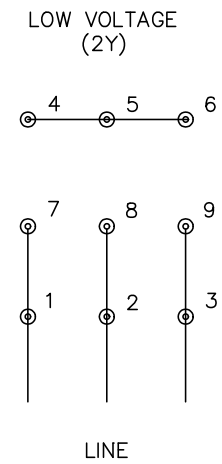
REF: -

BALDOR - RELIANCE®

STD HORZ 34M NEMA 56C TEFC

34LYA062

CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005