

ABB BALDOR RELIANCE III

Customer information packet

KM3454-57

.25HP, IP54, 1425RPM, 3PH, 50HZ, 56C, 3410M

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.250 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 400.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS UKCA WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.200 A @ 230.0 V .700 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	64.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	Q
Type	AC
Mech. spec.	34A063
Base	
Status	PRD/A
Elec. spec.	34WGS886
Layout	34LYA063
Eff. date	02-10-2025
CD Diagram	CD0022
Poles	04
Leads	6#18
Proprietary	False
Created date	09-02-2011

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3410M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	59
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	1425 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

NP1372L									
CAT.NO.	KM3454-57								
SPEC.	34A063S886G1								
HP	.25/KW .18								
VOLTS	230/400								
AMP	1.2/.7 SFA 1.3/.75								
R.P.M. (1/MIN)	1425								
FRAME	56C		HZ		50		PH		3
SER.F.	1.25	CODE		L	DES	B	CL	B	
NEMA-NOM-EFF	64	PF		59					
RATING	40C AMB-S1 CONT								
CC			IP44 KG9 IC411						
DE	6203			ODE		6203			
ENCL	TEFC	SN							
	IE2-61.9(75%)53.7(50%)								

Parts List

Part number	Description	Quantity
SA230020	SA 34A063S886G1	1.000 ea
RA217054	RA 34A063S886G1	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
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
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0034	CONNECTION LABEL	1.000 ea
NP1372L	ALUM UL CE UKCA WEEE CC, A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data

Record # 35108

Typical performance - not guaranteed values

Winding: 34WGS886-R001			Type: 3410M		Enclosure: TEFC	
Nameplate Data			400 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		.25	Full Load Torque		0.901 LB-FT	
Volts		230/400	Start Configuration		direct on line	
Full Load Amps		1.2/.7	Breakdown Torque		2.93 LB-FT	
R.P.M.		1425	Pull-up Torque		1.97 LB-FT	
Hz	50 Phase	3	Locked-rotor Torque		2.16 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		2.75 A	
Service Factor (S.F.)		1.25	No-load Current		0.59 A	
NEMA Nom. Eff.		64 Power Factor	Line-line Res. @ 25°C		72 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		53°C	
S.F. Amps		1.3/.75	Temp. Rise @ S.F. Load		60°C	
			Locked-rotor Power Factor		80	
			Rotor inertia		0.0238 LB-FT2	

Load Characteristics 400 V, 50 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	42	51	59	67	74	67
Efficiency	37.9	53.7	61.9	66.1	68.2	68.2	68.2
Speed	1483	1470	1456	1440	1423	1404	1423
Line amperes	0.592	0.603	0.635	0.678	0.723	0.769	0.723

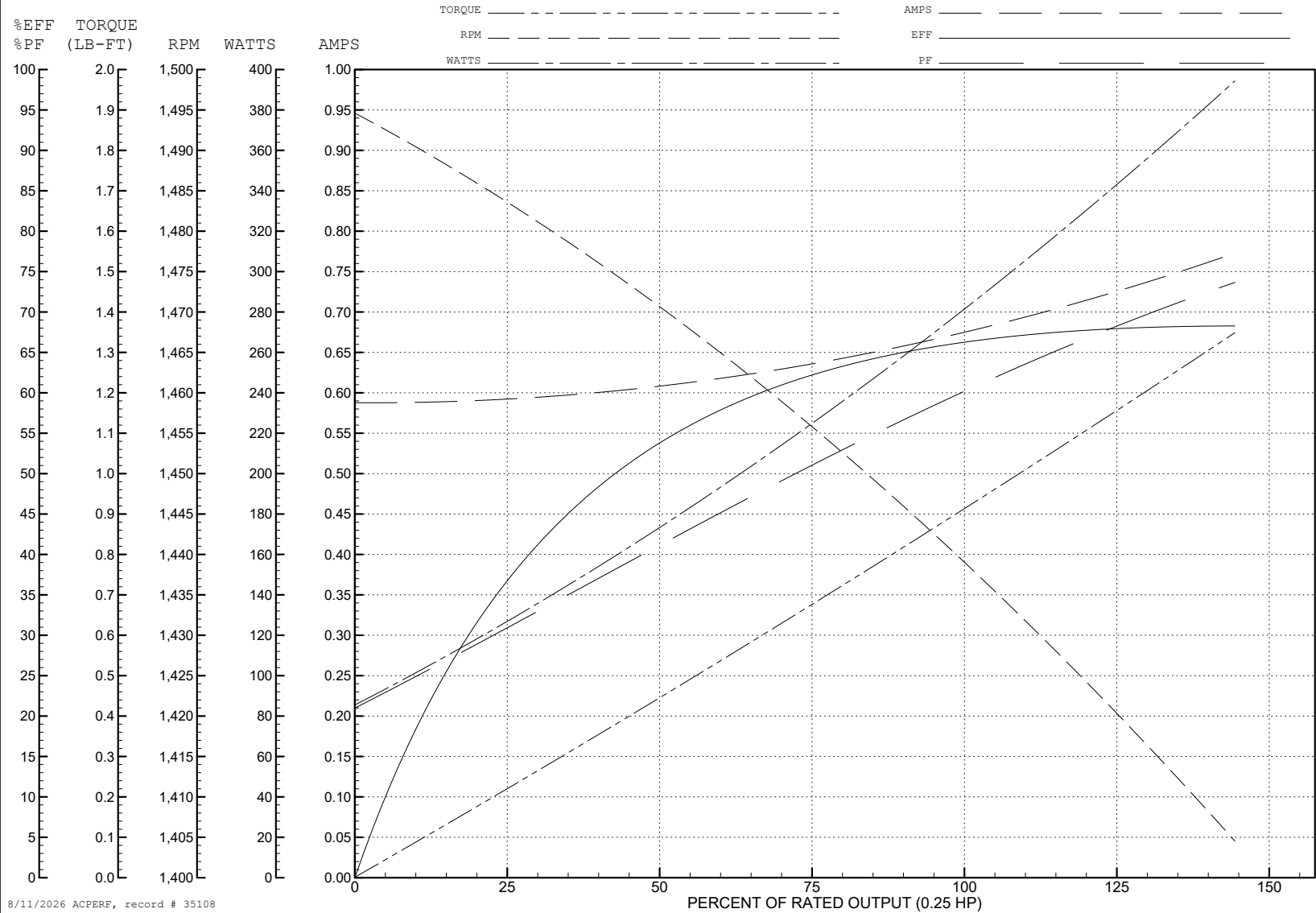
ABB Motors and Mechanical Inc.

WINDING # 34WGS886

Typical performance - not guaranteed values.

0.25 HP 3 PH 50 HZ 1425 RPM 400 V 3410M

TORQUES (LB-FT) : PO=2.93 PU=1.97 LR=2.16 LRA=2.75



AC Induction Motor Performance Data

Record # 46459

Typical performance - not guaranteed values

Winding: 34WGS886-R001			Type: 3410M		Enclosure: TEFC	
Nameplate Data			230 V, 50 Hz: Low Voltage Connection			
Rated Output (HP)		.25	Full Load Torque		0.901 LB-FT	
Volts		230/400	Start Configuration		direct on line	
Full Load Amps		1.2/.7	Breakdown Torque		2.91 LB-FT	
R.P.M.		1425	Pull-up Torque		1.95 LB-FT	
Hz	50 Phase	3	Locked-rotor Torque		2.14 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		4.74 A	
Service Factor (S.F.)		1.25	No-load Current		1.01 A	
NEMA Nom. Eff.		64 Power Factor	Line-line Res. @ 25°C		24.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		52°C	
S.F. Amps		1.3/.75	Temp. Rise @ S.F. Load		59°C	
			Locked-rotor Power Factor		80	
			Rotor inertia		0.0238 LB-FT2	

Load Characteristics 230 V, 50 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	42	52	60	68	74	68
Efficiency	38.4	54.1	62.3	66.3	68.4	68.3	68.4
Speed	1483	1470	1456	1440	1422	1403	1422
Line amperes	1.02	1.04	1.09	1.17	1.24	1.33	1.24

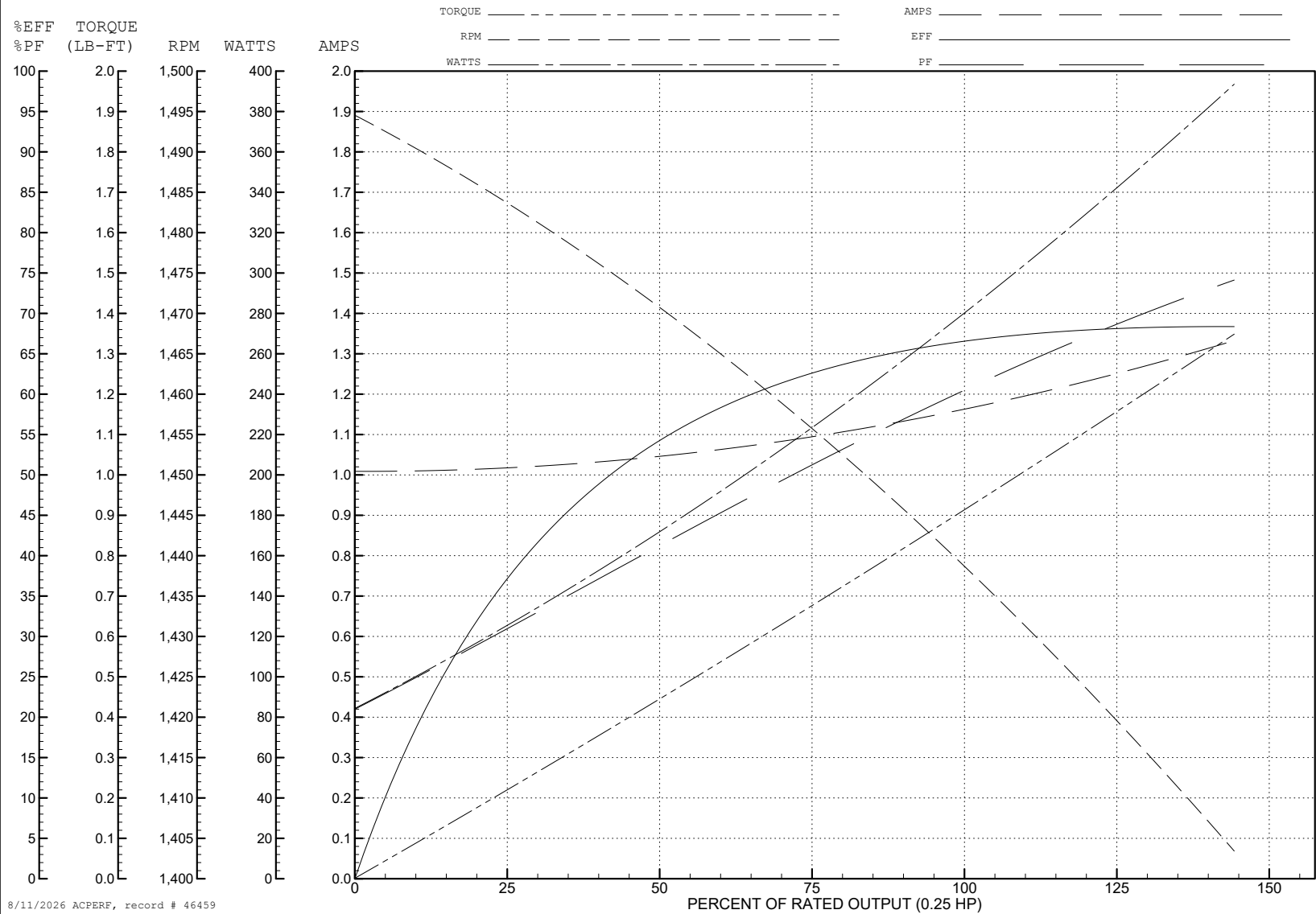
ABB Motors and Mechanical Inc.

WINDING # 34WGS886

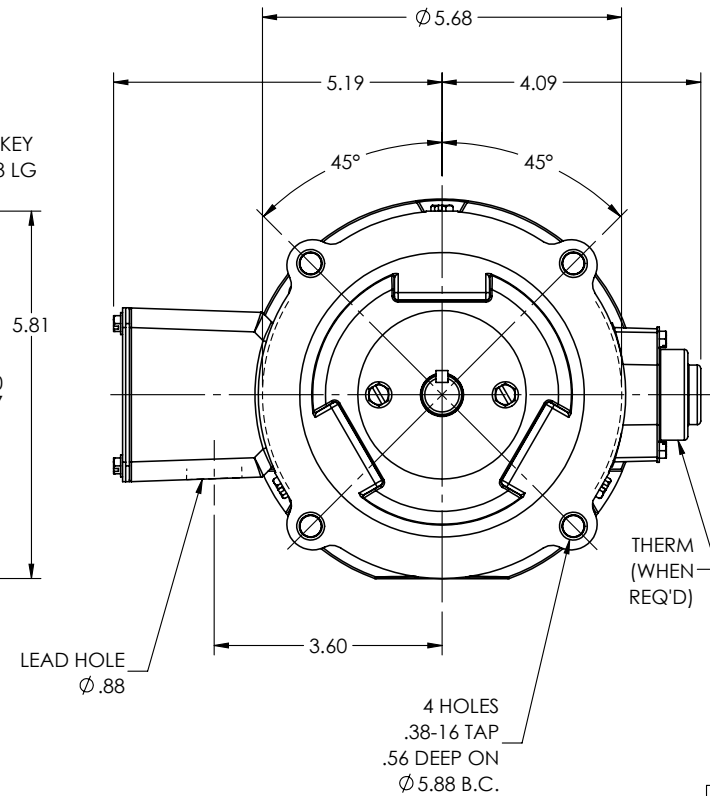
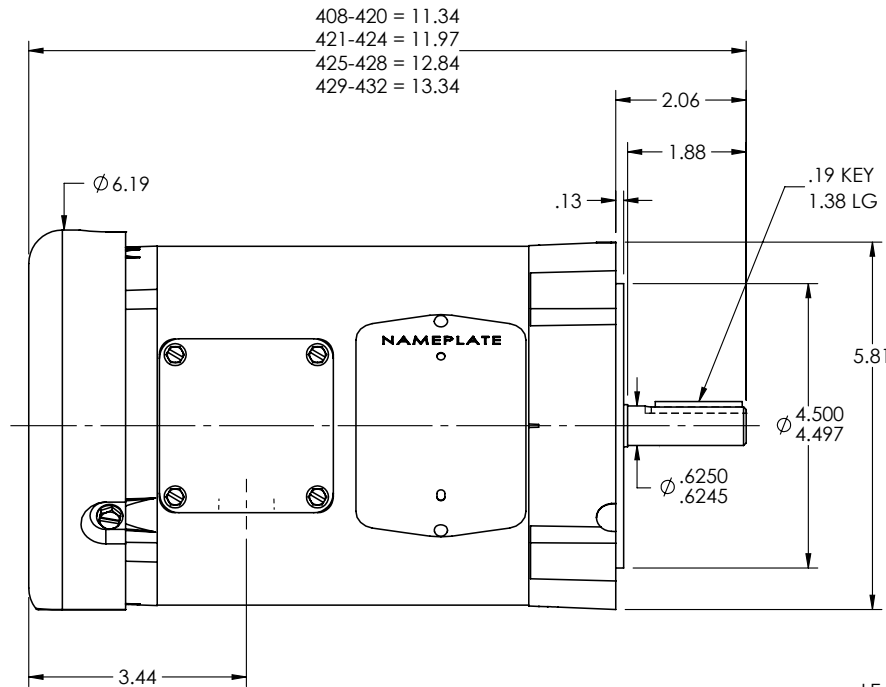
Typical performance - not guaranteed values.

0.25 HP 3 PH 50 HZ 1425 RPM 230 V 3410M

TORQUES (LB-FT) : PO=2.91 PU=1.95 LR=2.14 LRA=4.74



34LYA063



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

REV. DESC: CLEAN UP DIMENSIONING

REV: P

VERSION: 05

REVISED: 08:51:08 10/31/2024

TDR: 000001243684

34LYA063

MODEL NO. 34LYA063

BY: ENJEFD0

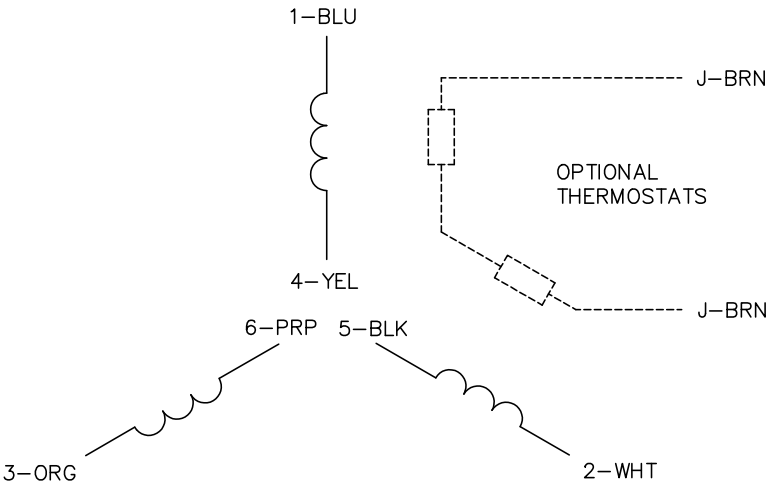
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BALDOR - RELIANCE®

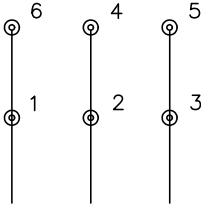
STD VERT 34M NEMA 56C TEFC

34LYA063

CD0022

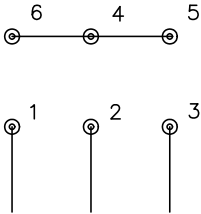


LOW VOLTAGE
(1D)



LINE

HIGH VOLTAGE
(1Y)



LINE

- 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: F

BY: JLP

REVISED: 01/21/99 3:54

TDR: 0171435

CD0022

FILE: AAA00005144

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022