

ABB BALDOR RELIANCE III

Customer information packet

KBM3454

.25HP, 1725RPM, 3PH, 60HZ, 56C, BRAKE, 3413M

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
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	.250 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Brake Torque	3.0 lb-ft
Current @ Voltage	1.000 A @ 230.0 V .950 A @ 208.0 V .500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting

Part Detail

Revision	AH
Type	AC
Mech. spec.	34K045
Base	
Status	PRD/A
Elec. spec.	34WG0139
Layout	34LYK045
Eff. date	10-28-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
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	3413M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.36 IN
Power Factor	66
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	1.00
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
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	KBM3454										
SPEC.	34K45-139-B										
HP	.25										
VOLTS	208-230/460										
AMP	.95-1/.5										
RPM	1725										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.00		CODE	K	DES	B		CLASS		B	
NEMA-NOM-EFF	68		PF	66							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TENV		SN								

Parts List

Part number	Description	Quantity
SA008181	SA 34K45-139-B	1.000 ea
RA004628	RA 34K45-139-B	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
34EP3900T09	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
18XN2520A12	1/4-20 X 3/4",FL HD SL ZN	2.000 ea
HW2500A13	KEY, USA #605, WOODRUFF	1.000 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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1185	LABEL,BRAKE CONNECTION (ON ROLLS)	1.000 ea
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.001 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
48BK6101BP-	1-048-161-01-BP- BRAKE	1.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
27PA1001	PKG GRP, PRINT PK1027A06	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
WD4006C05	ORANGE, WIRENUT, G-B #13-003 ORGSIZE 73B	3.000 ea

AC Induction Motor Performance Data

Record # 6548

Typical performance - not guaranteed values

Winding: 34WG0139-R001			Type: 3413M		Enclosure: TENV	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.25		Full Load Torque		0.75 LB-FT
Volts		208-230/460		Start Configuration		direct on line
Full Load Amps		0.95-1/.5		Breakdown Torque		3.1 LB-FT
R.P.M.		1725		Pull-up Torque		2.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		2.5 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		3 A
Service Factor (S.F.)		1		No-load Current		0.38 A
NEMA Nom. Eff.		68	Power Factor	Line-line Res. @ 25°C		60.4 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		36°C

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	32	45	56	65	72	77
Efficiency	48	63.4	70.3	73.7	75.3	75.8
Speed	1781	1768	1753	1738	1722	1704
Line amperes	0.39	0.41	0.44	0.49	0.54	0.6

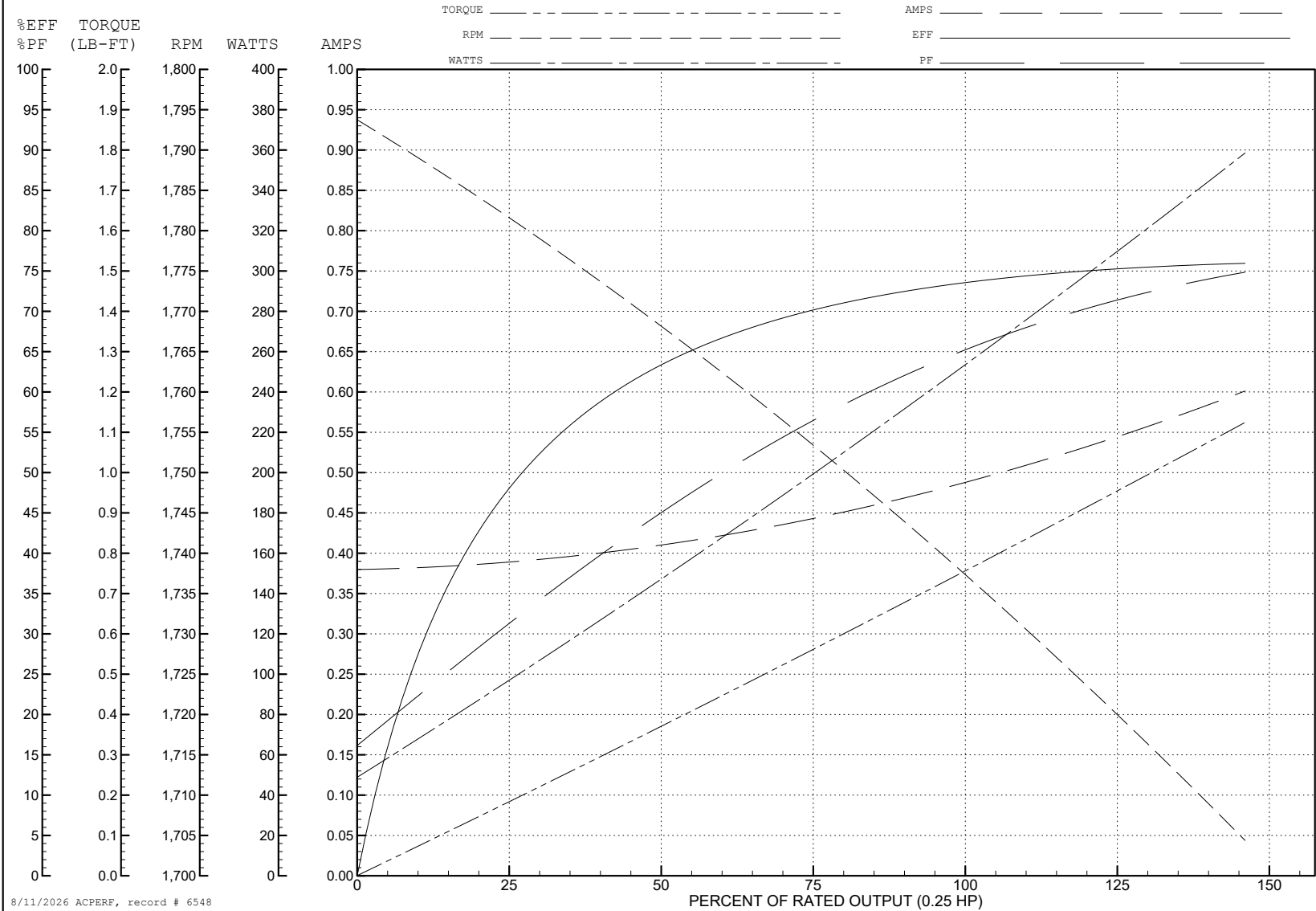
ABB Motors and Mechanical Inc.

WINDING # 34WG0139

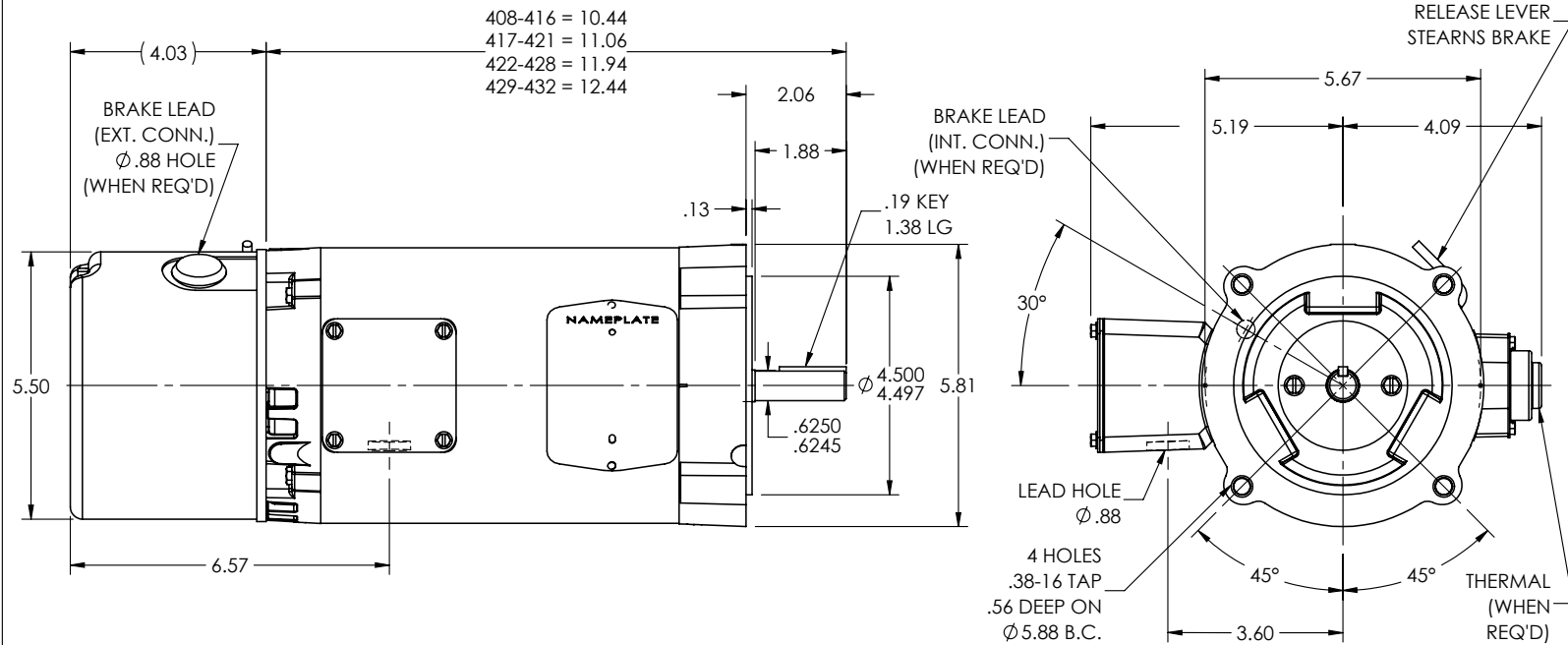
0.25 HP 3 PH 60 HZ 1725 RPM 460 V 3413M

Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=3.1 PU=2.4 LR=2.5 LRA=3



34LYK045



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

REV. DESC: LOAD TO SOLIDWORKS - REV H

REV: J

VERSION: 03

REVISED: 08:31:02 04/13/2023

TDR: 000001201165

BALDOR - RELIANCE®

34LYK045

MODEL NO. 34LYK045

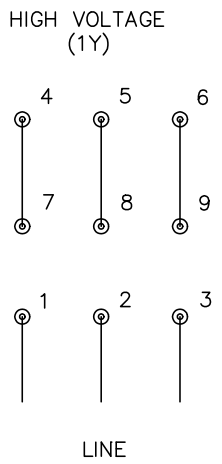
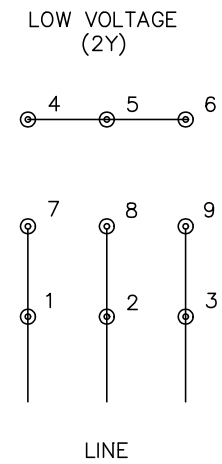
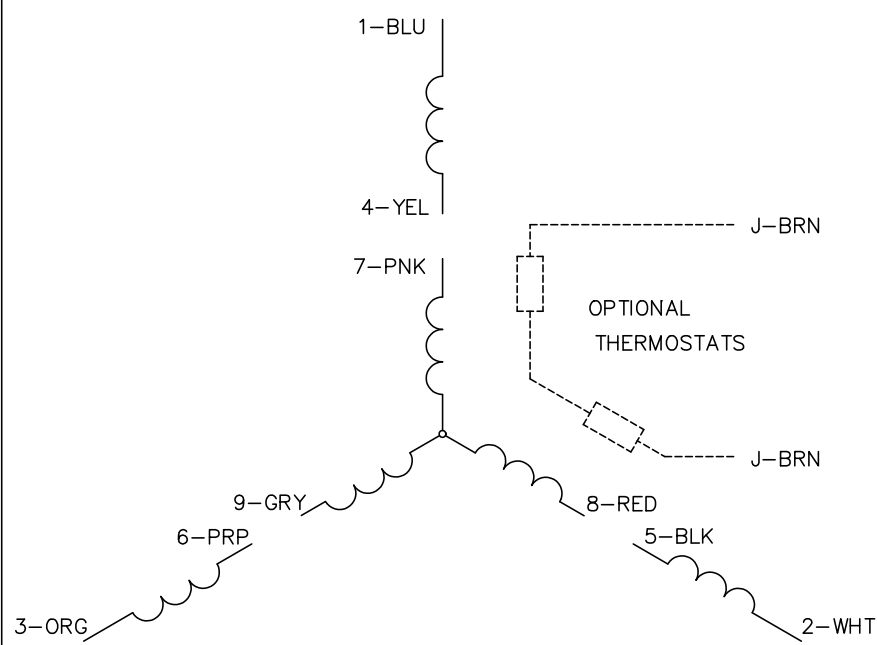
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BY: ENFRAJ0

VERT 34M NEMA 56C TENV W/STEARNS BRAKE (48 SERIES)

34LYK045

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