ABB BALDOR RELIANCE

Customer information packet

KBM3458

.33HP, 1725RPM, 3PH, 60HZ, 56C, BRAKE, 3416M
Class - None
Division - Not Applicable

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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	.330 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	1.500 A @ 208.0 V
	1.400 A @ 230.0 V
	.700 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	Brake Mounting

Part Detail

Revision	AF
Type	AC
Mech. spec.	34K045
Base	
Status	PRD/A
Elec. spec.	34WG0116
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	0.7 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	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.36 IN
Power Factor	64
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

Nameplate

NP1256L									
CAT.NO.	KBM3458								
SPEC.	34K45-116-B								
HP	.33								
VOLTS	208-230/460								
AMP	1.5-1.4/.7								
RPM	1725								
FRAME	56C		**HZ**	60			**PH**	3	
SER.F.	1.00	**CODE**	K	**DES**	B	**CLASS**		B	
NEMA-NOM-EFF	70	**PF**	64						
RATING	40C AMB-CONT								
CC									
DE	6203		**ODE**	6203					
ENCL	TENV	**SN**							

Parts List

Part number	Description	Quantity
SA008180	SA 34K45-116-B	1.000 ea
RA004627	RA 34K45-116-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
WD4006C05	ORANGE, WIRENUT, G-B #13-003 ORGSIZE 73B	3.000 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 PK1027A07	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

AC Induction Motor Performance Data
Record # 6545
Typical performance - not guaranteed values

Winding: 34WG0116-R001	**Type:** 3416M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			1.5-1.4/.7	**Breakdown Torque**	4.9 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.35 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	3.75 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	4.3 A
Service Factor (S.F.)			1	**No-load Current**	0.54 A
NEMA Nom. Eff.	70	**Power Factor**	64	**Line-line Res. @ 25ºC**	39.4 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	60°C

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	28	41	52	61	68	73
Efficiency	50	65	72	75.5	77	77
Speed	1784	1771	1758	1744	1729	1713
Line amperes	0.55	0.58	0.62	0.67	0.73	0.81

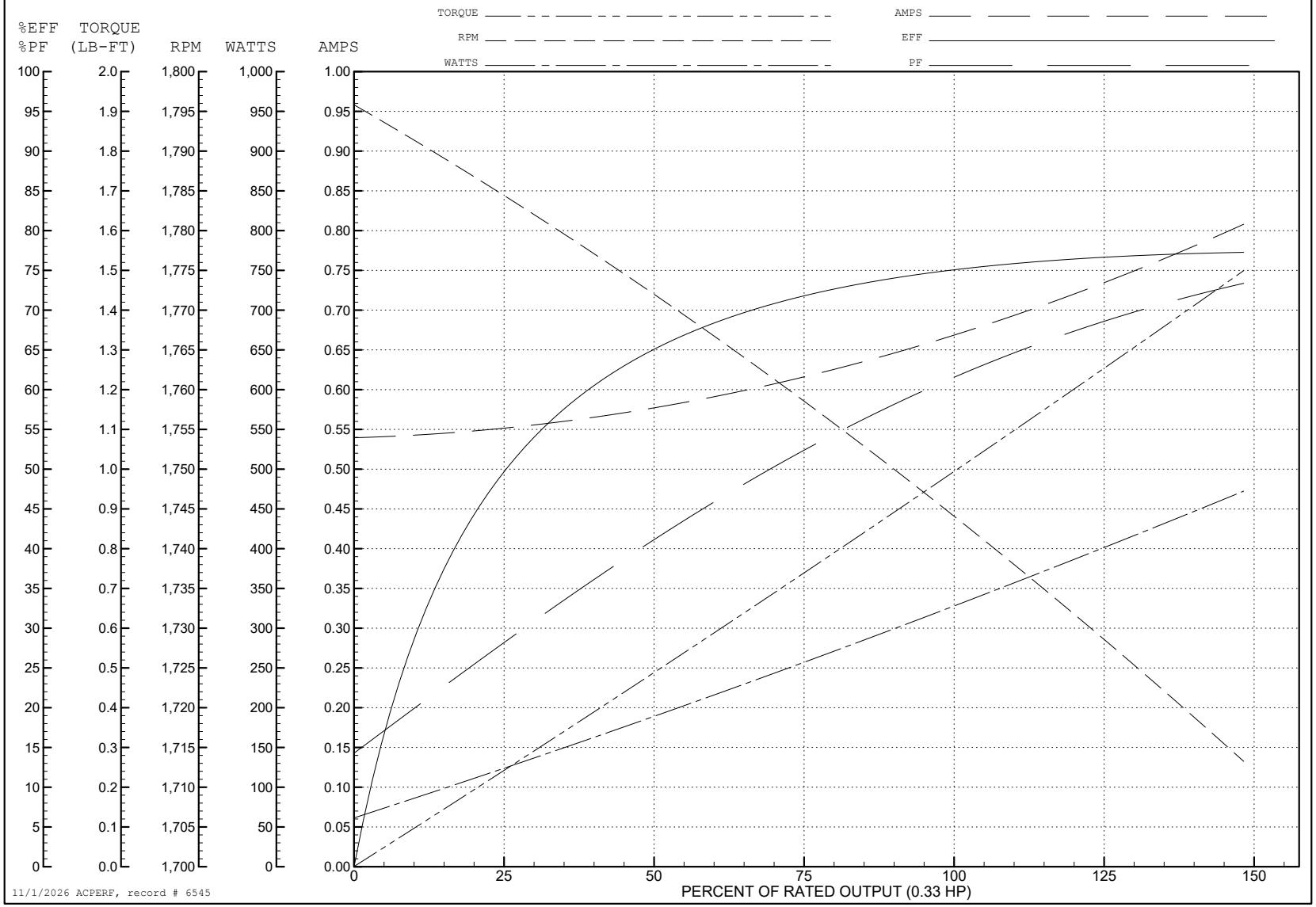
ABB Motors and Mechanical Inc.

WINDING # 34WG0116

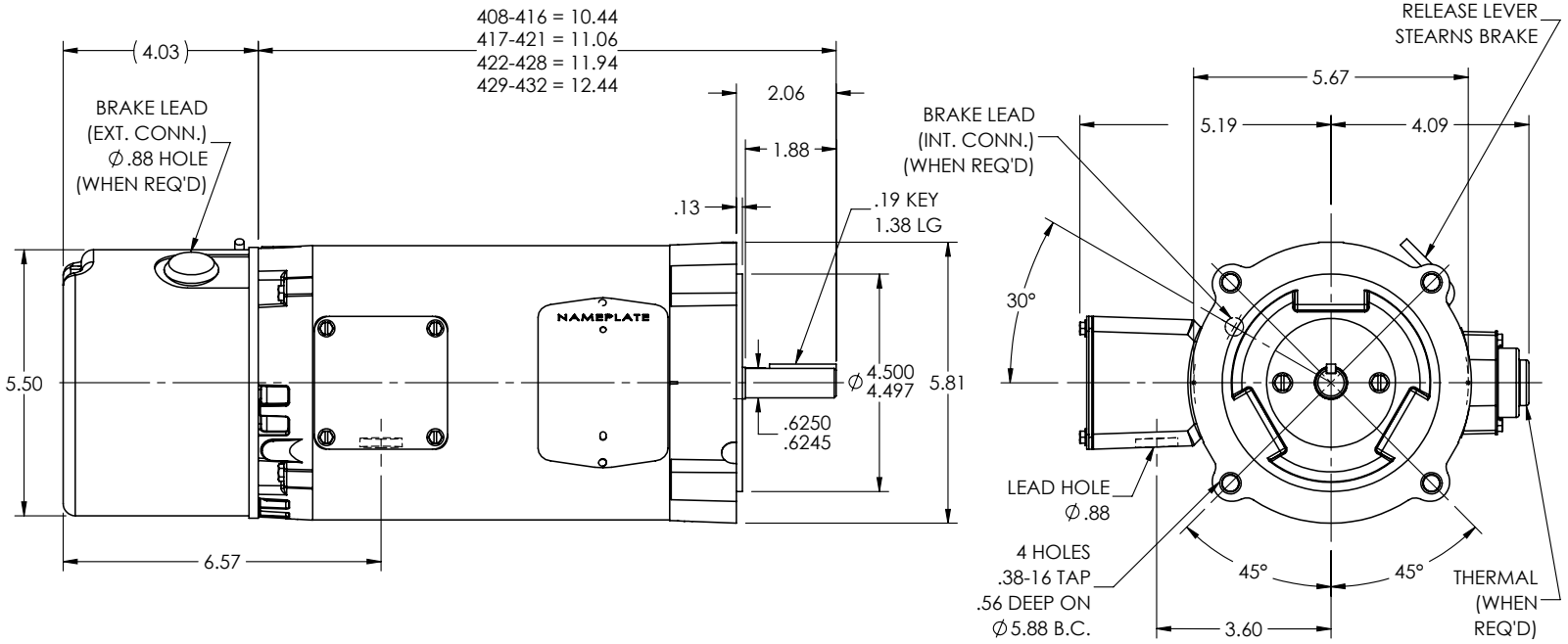
0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.9 PU=3.35 LR=3.75 LRA=4.3



34LYK045



34LYK045

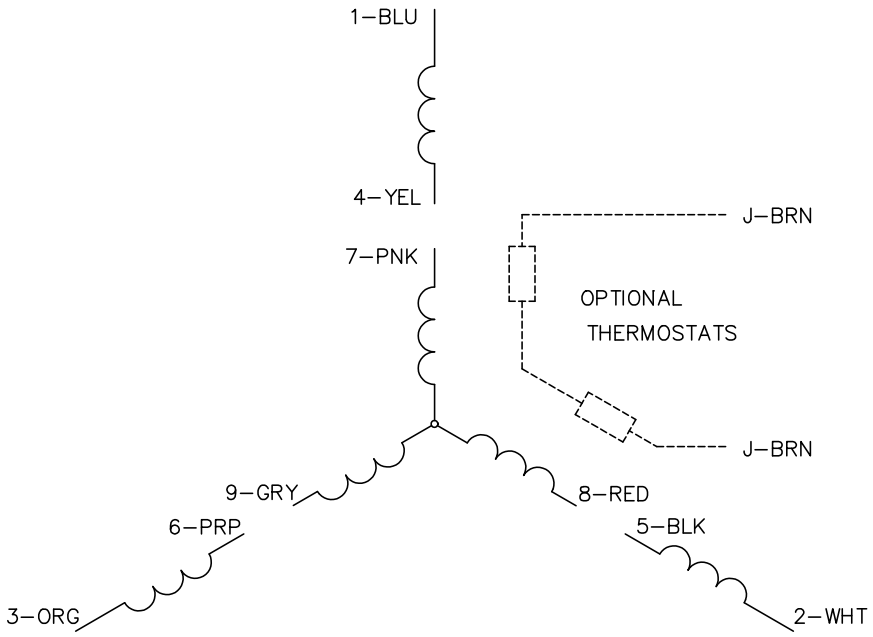
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

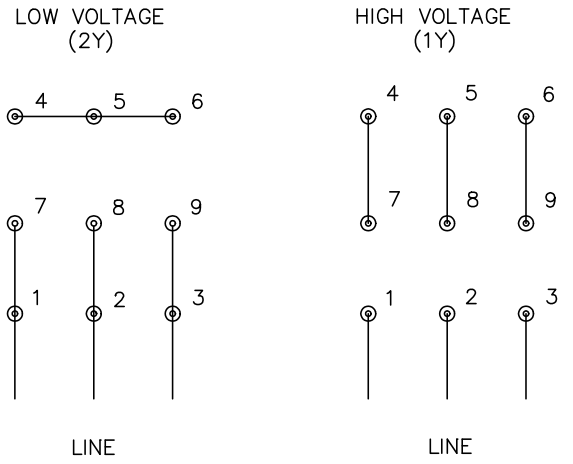
REV. DESC: LOAD TO SOLIDWORKS - REV H			
REV: J	VERSION: 03	REVISED: 08:31:02 04/13/2023	TDR: 000001201165
34LYK045	MODEL NO. 34LYK045		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

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

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS