



Product Information Packet

PFC EQUIPMENT

VNM3538

.5HP,1725RPM,3PH,60HZ,56C,3416M,TENV,F1

Part Detail							
Revision:	X	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	34WG0872	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	34K013	Layout:	34LYK013	Poles:	04	Created Date:	
Base:	N	Eff. Date:	10-12-2019	Leads:	9#18		

Specs			
Catalog Number:	VNM3538	Insulation Class:	F
Enclosure:	TENV	Inverter Code:	Not Inverter
Frame:	56C	KVA Code:	L
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	460.0 V @ 60 HZ	Motor Type:	3416M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	63
Agency Approvals:	UR	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	No Mounting	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	1.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	2.000 A @ 230.0 V	Shaft Rotation:	Reversible
	2.100 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	VNM3538												
SPEC.	34K13-872												
HP	.5												
VOLTS	208-230/460												
AMP	2.1-2/1												
RPM	1725												
FRAME	56C				HZ		60				PH		3
SER.F.	1.00			CODE		L	DES		B	CLASS		F	
NEMA-NOM-EFF	74			PF		63							
RATING	40C AMB-CONT												
CC				USABLE AT 208V									2.1
DE	6203				ODE		6203						
ENCL	TENV			SN									

Parts List		
Part Number	Description	Quantity
SA008079	SA 34K13-872	1.000 EA
RA004526	RA 34K13-872	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
34EP3100A03SP	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
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
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.014 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
34PA1002	PKG GRP, PRINT PK1001A01	1.000 EA
PK3083T	STYROFOAM PACKING CRADLE	1.000 EA
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS 5,400/RL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA

AC Induction Motor Performance Data

Record # 6601 - Typical performance - not guaranteed values

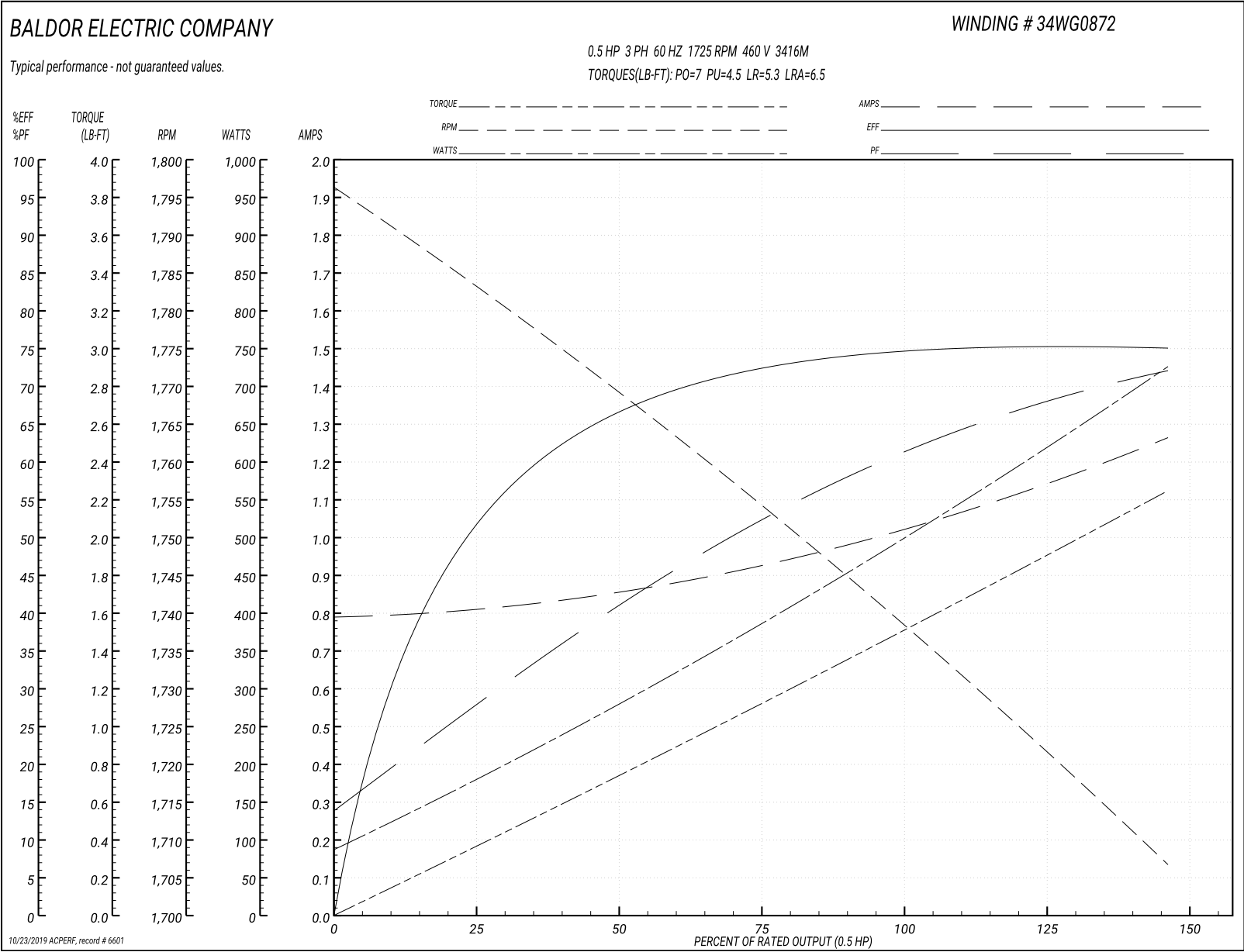
Winding: 34WG0872-R013	Type: 3416M	Enclosure: TENV
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.5 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	2.1-2/1			Breakdown Torque	7 LB-FT
R.P.M.	1725			Pull-up Torque	4.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.3 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	6.5 A
Service Factor (S.F.)	1			No-load Current	0.8 A
NEMA Nom. Eff.	74	Power Factor	63	Line-line Res. @ 25°C	32 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	94°C

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	43	55	63	69	75
Efficiency	53.2	66.4	72.5	74.6	75.3	75.1
Speed	1782	1769	1754	1739	1724	1706
Line amperes	0.8	0.85	0.92	1.03	1.15	1.25

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 46664 - Preliminary Data Sheet

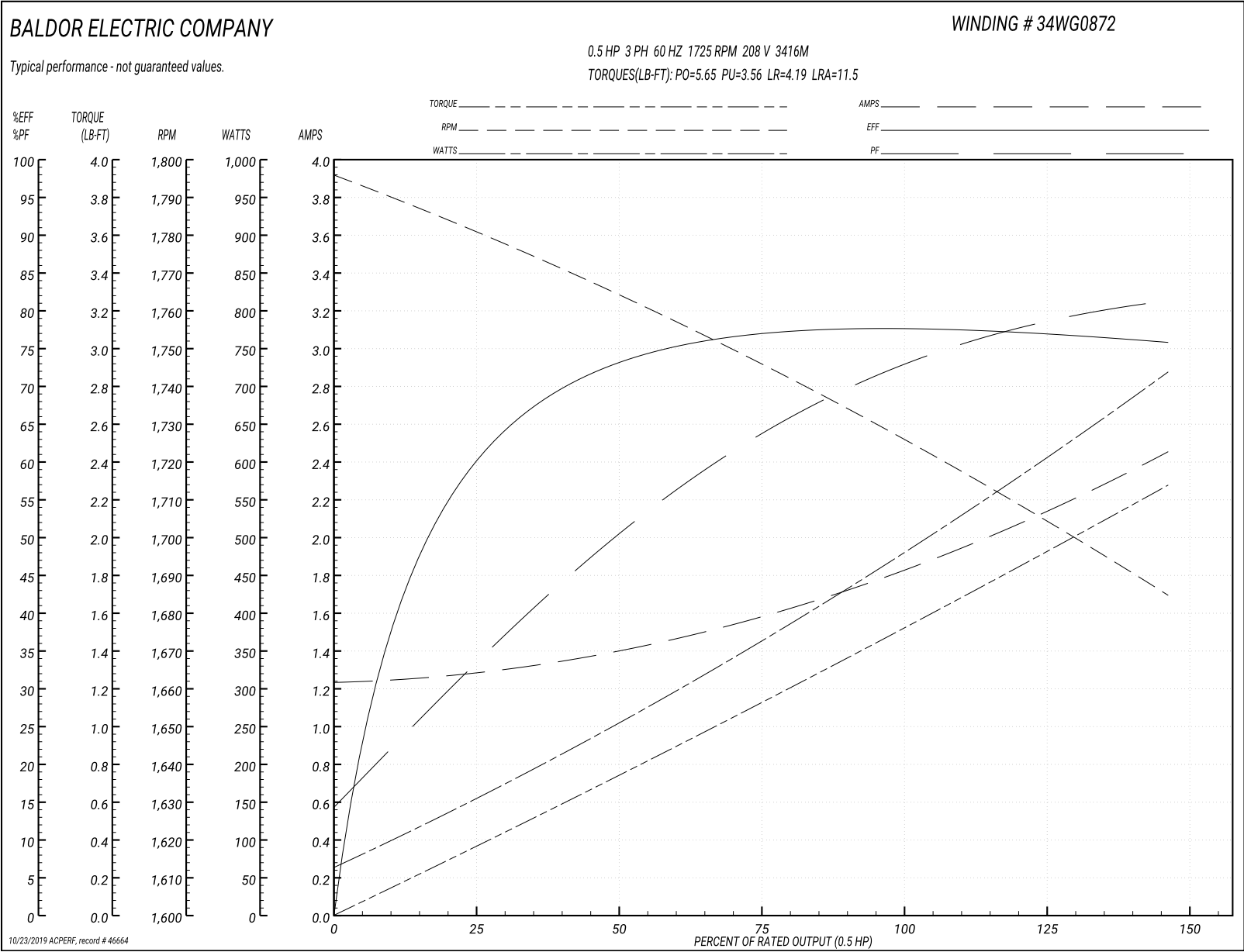
Winding: 34WG0872-R013	Type: 3416M	Enclosure: TENV
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Nameplate Data				208 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.51 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	2.1-2/1			Breakdown Torque	5.65 LB-FT
R.P.M.	1725			Pull-up Torque	3.56 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	4.19 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	11.5 A
Service Factor (S.F.)	1			No-load Current	1.25 A
NEMA Nom. Eff.	74	Power Factor	63	Line-line Res. @ 25°C	8.35 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	
				Locked-rotor Power Factor	65
				Rotor inertia	0.0381 LB-FT ²

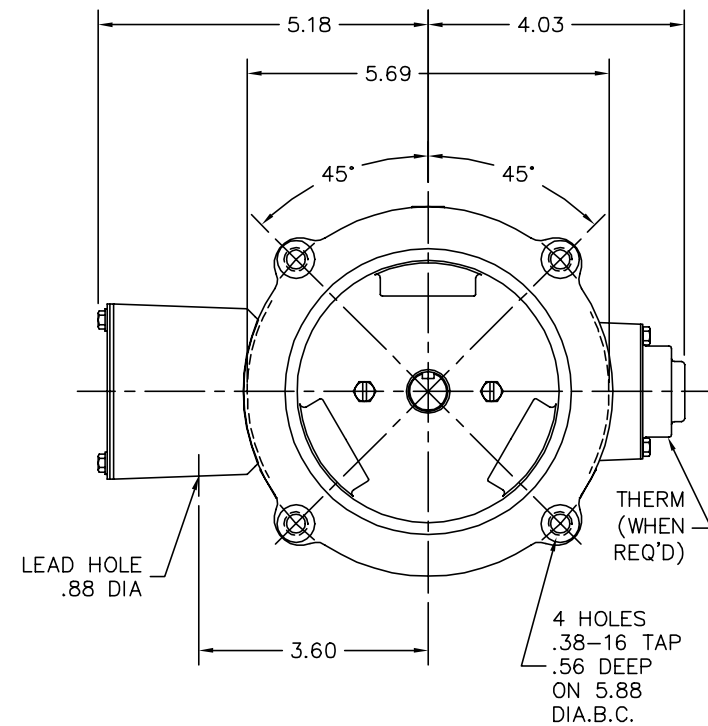
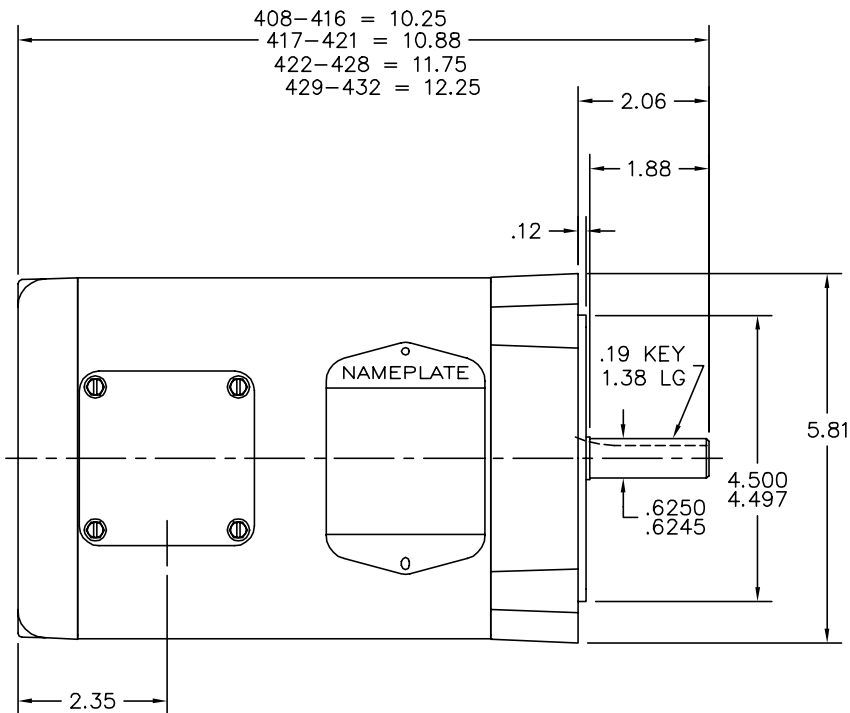
Load Characteristics 208 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	52	64	72	77	82
Efficiency	61.8	72.7	77	77.7	77	75.9
Speed	1779	1764	1746	1727	1707	1684
Line amperes	1.27	1.39	1.57	1.84	2.14	2.43

Performance Graph at 208V, 60Hz, 0.5HP Typical performance - Not guaranteed values



34LYK013



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE ACAD & KBOX

REV. LTR: D BY: RT REVISED: 14:11:23 02/04/2005 TDR: 355794

34LYK013

FILE: AAA00026147

REF: 34LYK013

MTL: -

BALDOR ELECTRIC Co.

STD VERT MODEL 34M NEMA 56C TENV

34LYK013

