ABB BALDOR RELIANCE

Customer information packet

ERM3003

.25HP, 1725RPM, 3PH, 60HZ, 48, 3413M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	48
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	.500 A @ 460.0 V
	1.000 A @ 230.0 V
	1.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	69.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	K
Type	AC
Mech. spec.	34K015
Base	
Status	PRD/A
Elec. spec.	34WGR137
Layout	34LYK015
Eff. date	10-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-06-2014

High Voltage Full Load Amps	0.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
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	10.34 IN
Power Factor	62
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.500 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

NP3155L											
CAT.NO.	ERM3003										
SPEC.	34K015R137G1										
HP	.25										
VOLTS	230/460										
AMP	1/.5										
RPM	1725										
FRAME	48		**HZ**	60			**PH**	3			
SER.F.	1.35	**CODE**	M	**DES**	B	**CL**	B				
F.L. AVG. EFF.	69.5	**PF**	62								
RATING	40C AMB-CONT										
CC											
DE	6203		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 1.2/.6										

Parts List

Part number	Description	Quantity
SA288632	SA 34K015R137G1	1.000 ea
RA274820	RA 34K015R137G1	1.000 ea
SP1000A09	TERM BOARD, MODEL 34 SW, (RPL SP1000A01)	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
LD5000A52	LEAD ASSY W/INTERNAL STAR RING TERMINALS	1.000 ea
11XT1032A06	10-32 X 3/8 HX WSHR HD SLTD TYPE 23	2.000 ea
34EP3202A01	FR ENDPLATE, MACH	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3203A01	PU ENDPLATE, MACH	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
34BA4001A01SP	RESILIENT BASE, 408-416	1.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3155L	ALUM SUPER-E UL CC "SEMS"	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

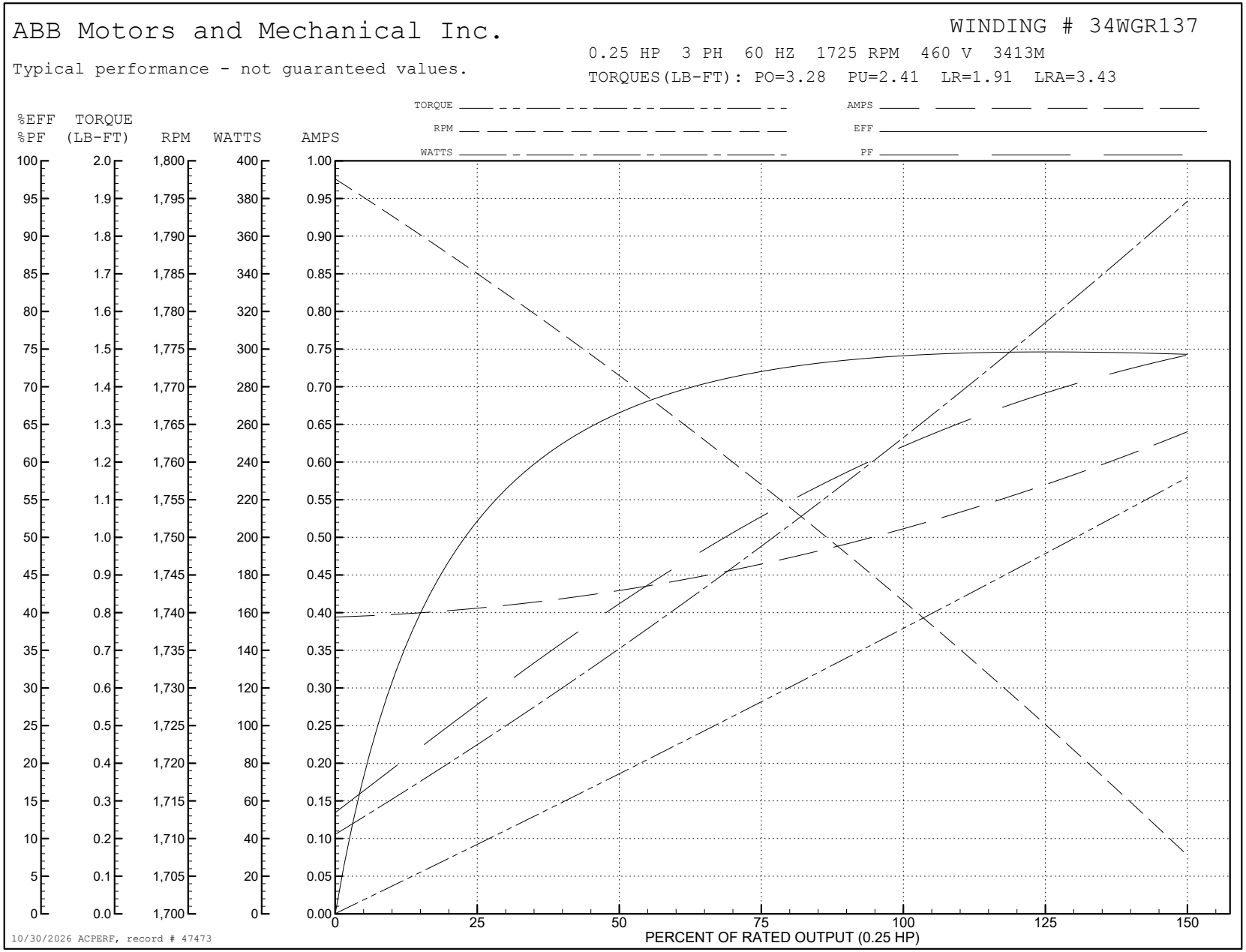
AC Induction Motor Performance Data
Record # 47473
Typical performance - not guaranteed values

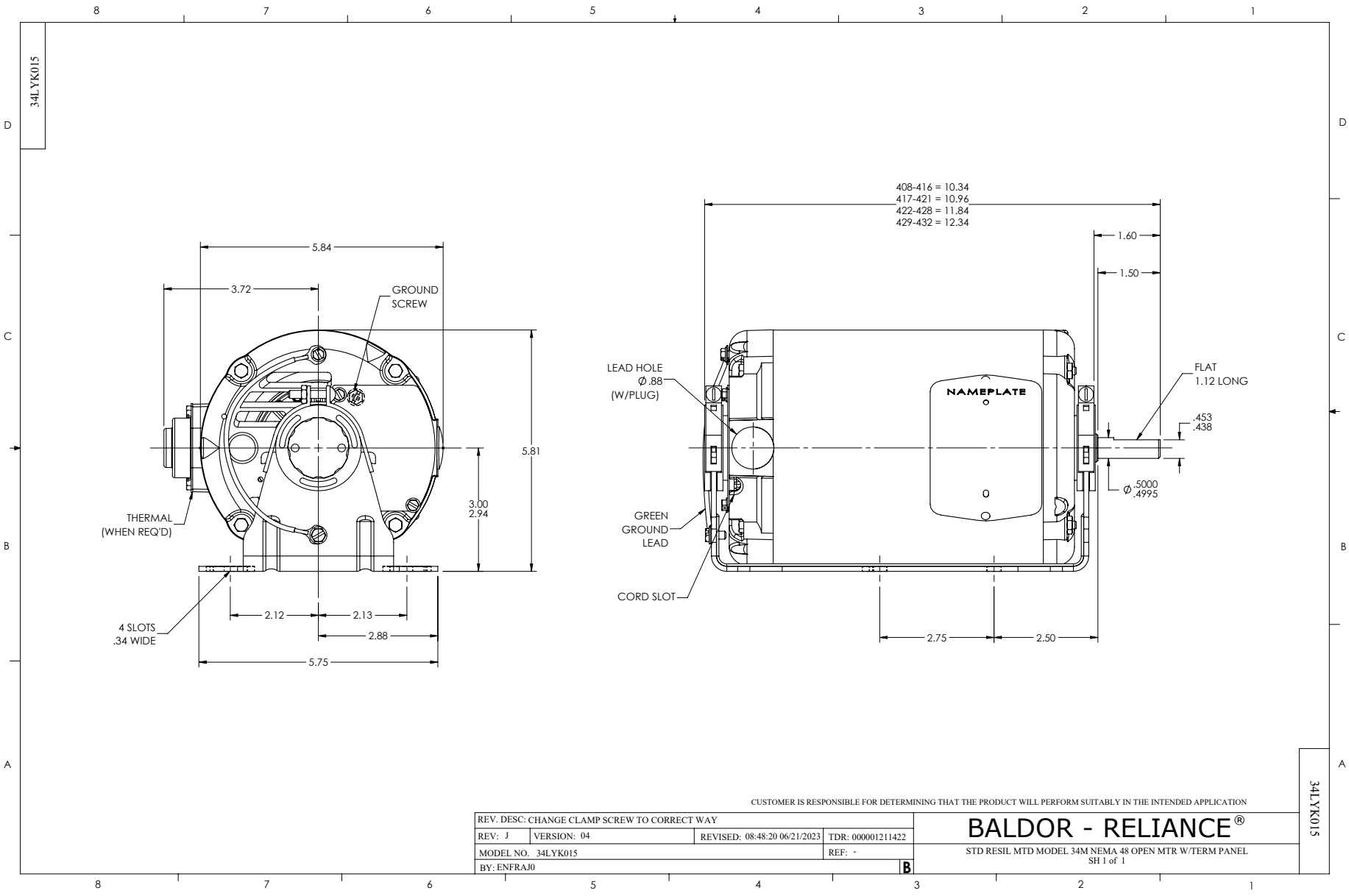
Winding: 34WGR137-R002	**Type:** 3413M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.25	**Full Load Torque**	0.76 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1/.5	**Breakdown Torque**	3.28 LB-FT
R.P.M.			1725	**Pull-up Torque**	2.41 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	1.91 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	3.43 A
Service Factor (S.F.)			1.35	**No-load Current**	0.395 A
NEMA Nom. Eff.	69.5	**Power Factor**	62	**Line-line Res. @ 25ºC**	60.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	16°C
S.F. Amps			1.2/.6	**Temp. Rise @ S.F. Load**	20°C
				Locked-rotor Power Factor	62.5478
				Rotor inertia	0.031 lb-ft²

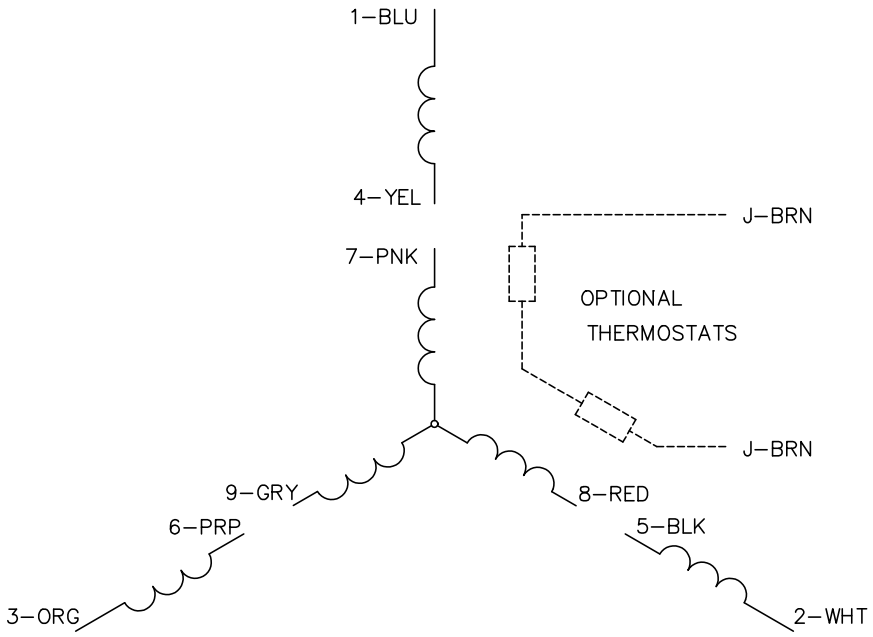
Load Characteristics 460 V, 60 Hz, 0.25 HP

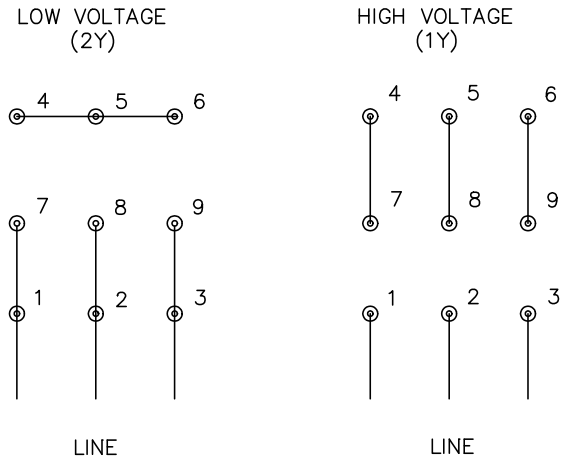
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	41	53	62	69	74	71
Efficiency	52.2	65.8	72.5	74	74.8	74.2	74.6
Speed	1783	1771	1757	1742	1726	1707	1718
Line amperes	0.405	0.428	0.467	0.514	0.568	0.64	0.597


ABB Motors and Mechanical Inc.
WINDING # 34WGR137
Typical performance - not guaranteed values.
0.25 HP 3 PH 60 HZ 1725 RPM 460 V 3413M
TORQUES(LB-FT): PO=3.28 PU=2.41 LR=1.91 LRA=3.43
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0
1,800 1,795 1,790 1,785 1,780 1,775 1,770 1,765 1,760 1,755 1,750 1,745 1,740 1,735 1,730 1,725 1,720 1,715 1,710 1,705 1,700
400 380 360 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0
1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.10 0.05 0.00
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.25 HP)
10/30/2026 ACPERF, record # 47473


34LYK015
5.84
3.72
GROUND SCREW
5.81
3.00
2.94
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.12
2.13
2.88
5.75
408-416 = 10.34
417-421 = 10.96
422-428 = 11.84
429-432 = 12.34
1.60
1.50
LEAD HOLE Ø .88 (W/PLUG)
NAMEPLATE
FLAT 1.12 LONG
.453
.438
Ø .5000
.4995
GREEN GROUND LEAD
CORD SLOT
2.75
2.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: J
VERSION: 04
REVISED: 08:48:20 06/21/2023
TDR: 000001211422
MODEL NO. 34LYK015
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD RESIL MTD MODEL 34M NEMA 48 OPEN MTR W/TERM PANEL
SH 1 of 1
34LYK015

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