ABB BALDOR RELIANCE

Customer information packet

RL1301A277

.33HP/1725RPM/1PH/OPEN/NEMA 56
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	277.0 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	2.500 A @ 277.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	Y
Type	AC
Mech. spec.	34K018
Base	
Status	PRD/A
Elec. spec.	34WGW220
Layout	34LYK018
Eff. date	10-28-2024
CD Diagram	CD0085
Poles	04
Leads	5#18
Proprietary	False
Created date	01-01-0001

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.97 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.35
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Nameplate

	NP1257L									
CAT.NO.	RL1301A277									
SPEC.	34K18W220									
HP	.33									
VOLTS	277									
AMP	2.5									
RPM	1725									
FRAME	56		**HZ**	60		**PH**	1			
SER.F.	1.35	**CODE**	L	**DES**	N	**CL**	B			
NEMA-NOM-EFF	60	**PF**	60							
RATING	40C AMB-CONT									
CC										
DE	6203	**ODE**	6203							
ENCL	OPEN	**SN**								
	SFA 2.8									

Parts List

Part number	Description	Quantity
SA008111	SA 34K18W220	1.000 ea
RA004558	RA 34K18W220	1.000 ea
EC4043D02	ELEC CAP, 43-52 MFD, 330V, 1.4 X 3.38	1.000 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
34EP3202A01	FR ENDPLATE, MACH	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
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 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
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	6.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3203A01	PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	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
34BA4003A01SP	RESILIENT BASE, (LENGTH 8.22")	1.000 ea
SP5068A01	34L TERM PANEL STAT SWITCH #E-6"	1.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0085	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea

34PA1002	PKG GRP, PRINT PK1001A02	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

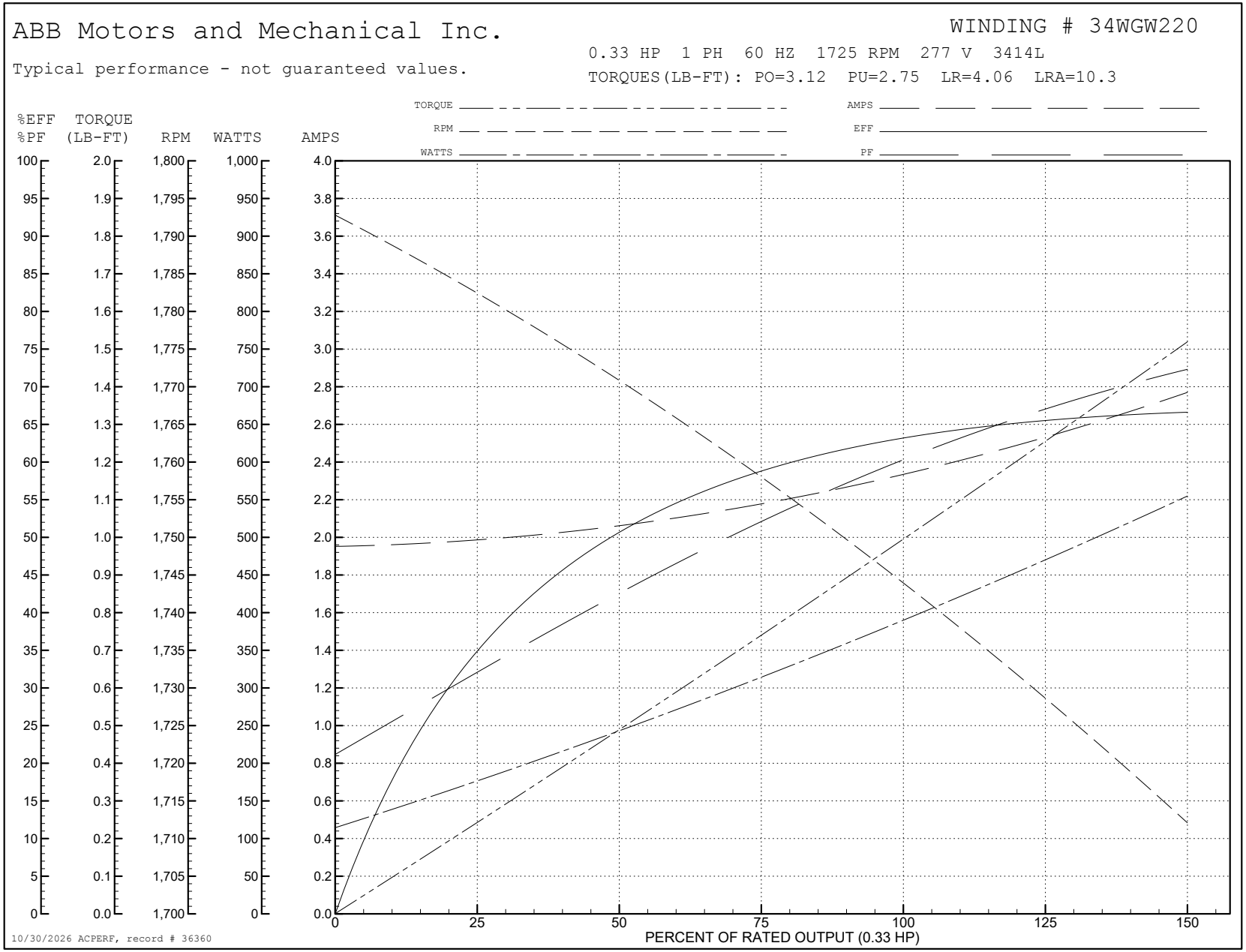
AC Induction Motor Performance Data
Record # 36360
Typical performance - not guaranteed values

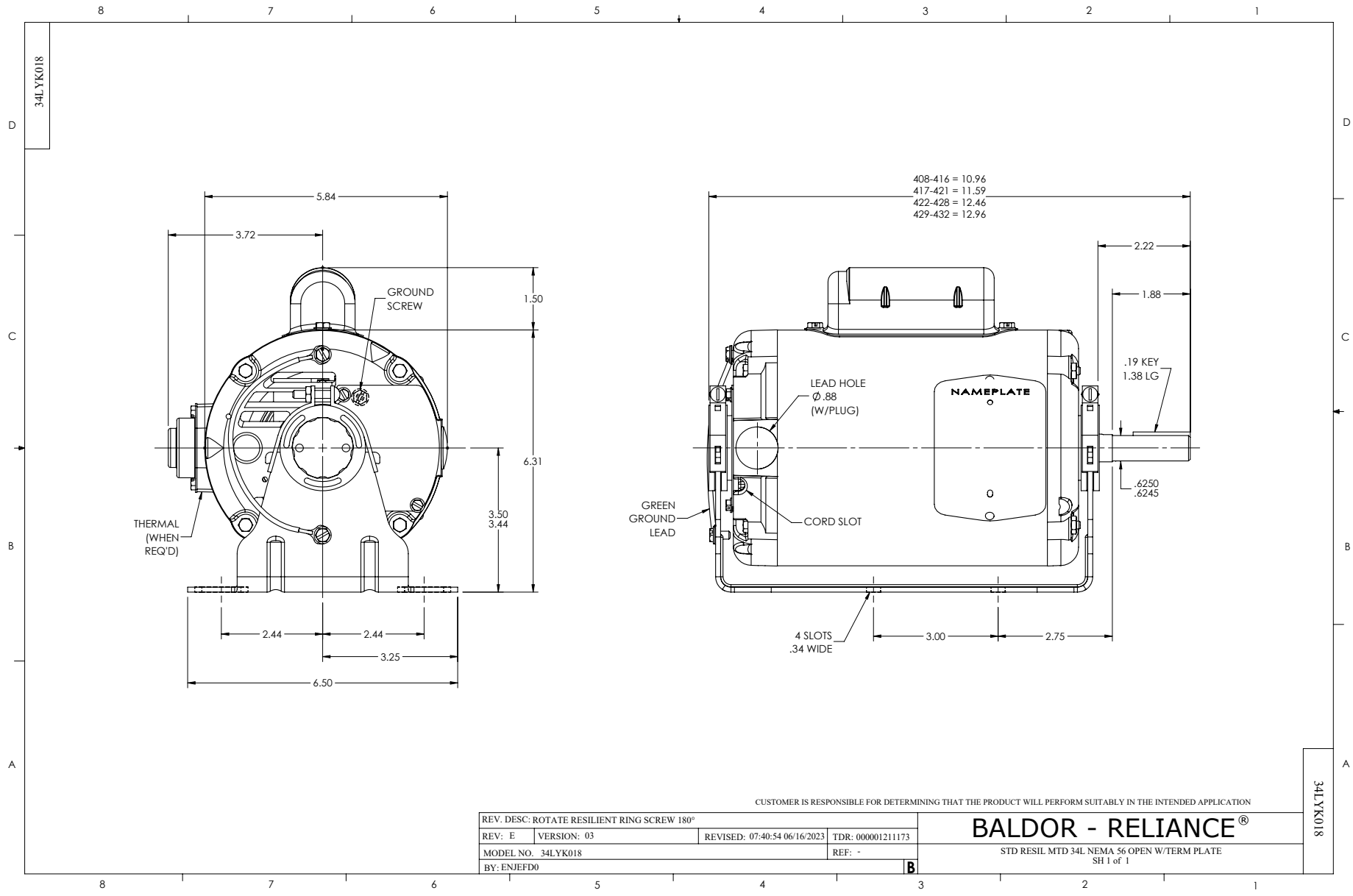
Winding: 34WGW220-R001	**Type:** 3414L	**Enclosure:** TEFC

Nameplate Data				**277 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			.33	**Full Load Torque**	0.994 LB-FT
Volts			277	**Start Configuration**	direct on line
Full Load Amps			2.5	**Breakdown Torque**	3.12 LB-FT
R.P.M.			1725	**Pull-up Torque**	2.75 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	4.06 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	10.3 A
Service Factor (S.F.)			1.35	**No-load Current**	1.95 A
NEMA Nom. Eff.	60	**Power Factor**	60	**Line-line Res. @ 25ºC**	9.11 Ω A Ph 18.4 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			2.8	**Temp. Rise @ S.F. Load**	

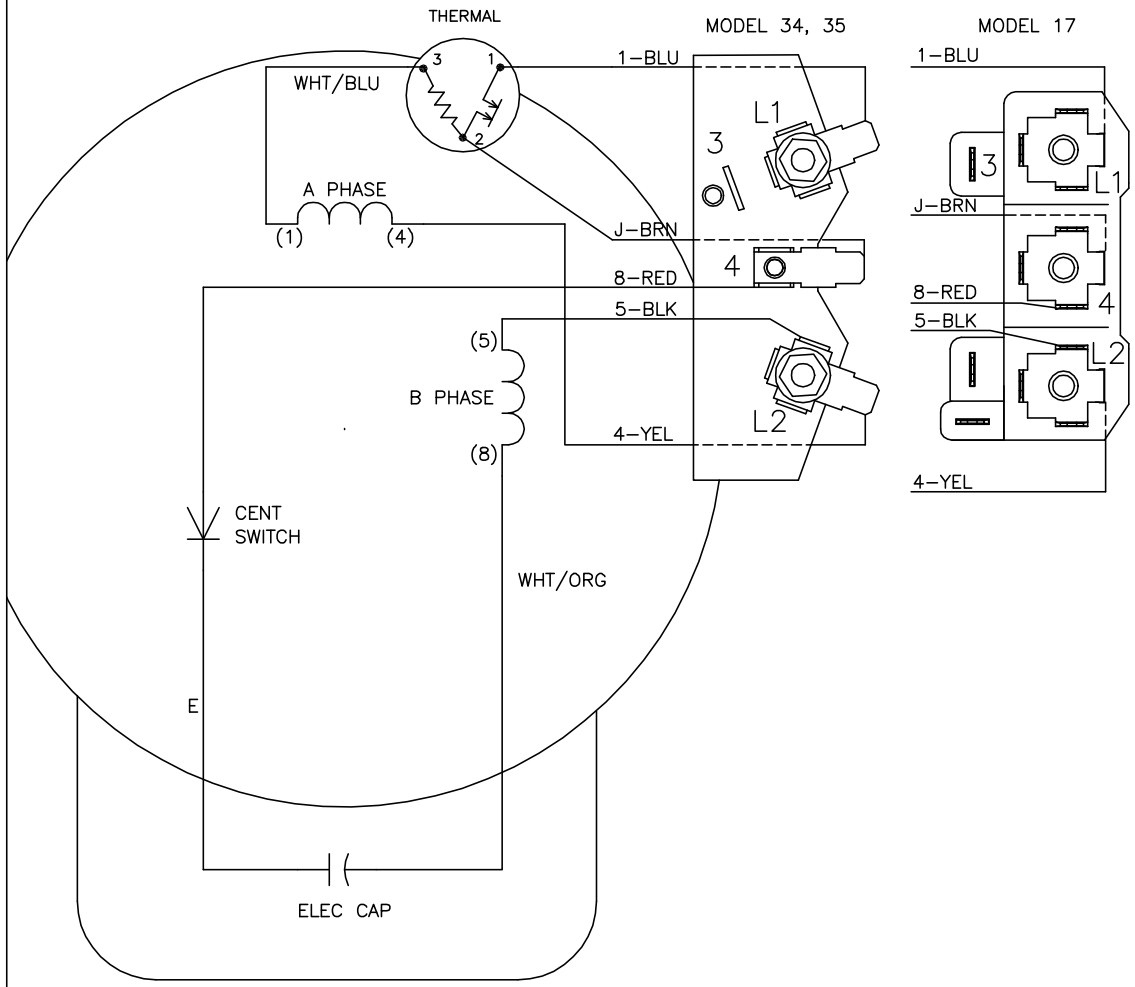
Load Characteristics 277 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	43	52	60	67	72	69
Efficiency	34.7	50.5	58.7	63.3	65.7	66.6	66.1
Speed	1782	1771	1758	1744	1729	1712	1722
Line amperes	1.99	2.06	2.18	2.33	2.53	2.77	2.63


ABB Motors and Mechanical Inc.
WINDING # 34WGW220
0.33 HP 1 PH 60 HZ 1725 RPM 277 V 3414L
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=3.12 PU=2.75 LR=4.06 LRA=10.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
10/30/2026 ACPERF, record # 36360


34LYK018
5.84
3.72
GROUND SCREW
1.50
6.31
3.50
3.44
THERMAL (WHEN REQ'D)
2.44
2.44
3.25
6.50
408-416 = 10.96
417-421 = 11.59
422-428 = 12.46
429-432 = 12.96
2.22
1.88
.19 KEY
1.38 LG
LEAD HOLE
Ø .88
(W/PLUG)
NAMEPLATE
.6250
.6245
GREEN GROUND LEAD
CORD SLOT
4 SLOTS
.34 WIDE
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ROTATE RESILIENT RING SCREW 180°
REV: E
VERSION: 03
REVISED: 07:40:54 06/16/2023
TDR: 000001211173
MODEL NO. 34LYK018
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
STD RESIL MTD 34L NEMA 56 OPEN W/TERM PLATE
SH 1 of 1
34LYK018

CD0085



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0085

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: J	VERSION: 01	TDR: 000000373039	
CD0085	FILE: \AAA\00007\109	REVISED: 13:27:48 08/11/2005	TYPE L, SV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	