Customer information packet

RM3157A

2HP, 1770RPM, 3PH, 60HZ, 56H, 3526M, OPAO, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPAO
Frame	56H
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	2.000 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	C UR US
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	5.800 A @ 230.0 V
	5.800 A @ 208.0 V
	2.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.9 a

Part Detail

Revision	D
Type	AC
Mech. spec.	35N501
Base	
Status	PRD/A
Elec. spec.	35WGG312
Layout	35LYN501
Eff. date	11-12-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	02-23-2023

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.42 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valiid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	RM3157A										
SPEC.	35N501G312										
HP	2										
VOLTS	208-230/460										
AMP	5.8/2.9										
RPM	1770										
FRAME	56H		**HZ**	60		**PH**	3				
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F				
NEMA-NOM-EFF	86.5	**PF**	74								
RATING	40C AMB-CONT										
CC											
DE	6205	**ODE**	6203								
ENCL	OPAO	**SN**									
	SFA 6.6/3.3										

Parts List

Part number	Description	Quantity
SA416886	SA 35N501G312	1.000 ea
RA408736	RA 35N501G312	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
35EP3202A01	STD OPEN FR EP - RESILIENT MTD	1.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 ea
LD5000A01	LEAD ASSY, ML1400DF14 7" RING TRM EA END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 ea
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 ea
SP1003A06	TERM. BOARD, MODE 35 SW X H-23655 SPL CU	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1209A01	PU ENDPLATE, MACH	1.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
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
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
35BA4002B01	RESILIENT BASE, STAMPED	1.000 ea
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS TDR	1.000 ea
35AD2008A01	AIR DEFLECTOR FOR SL BANDW/THERMAL IN FR	1.000 ea

HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0007	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

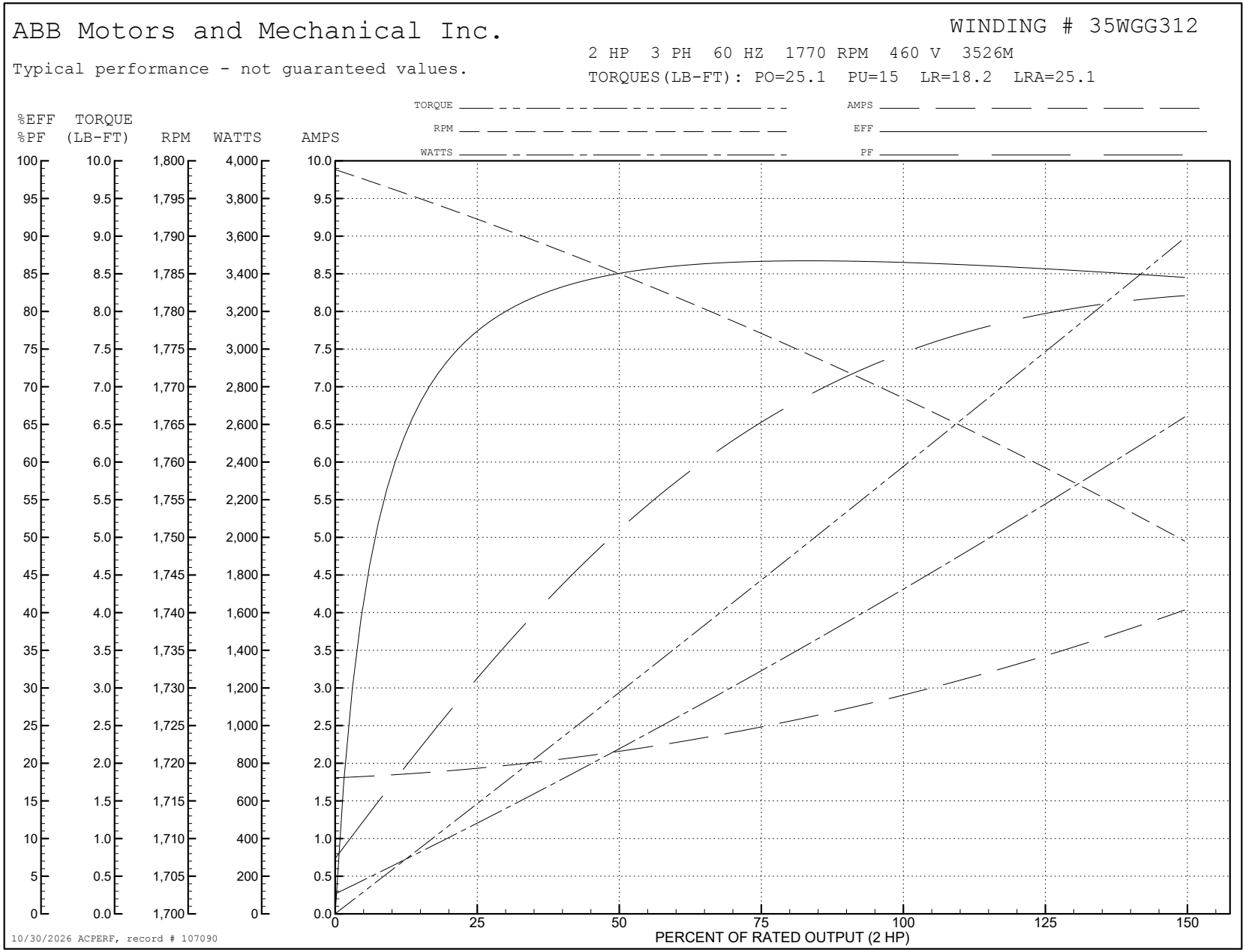
AC Induction Motor Performance Data
Record # 107090
Preliminary Data Sheet

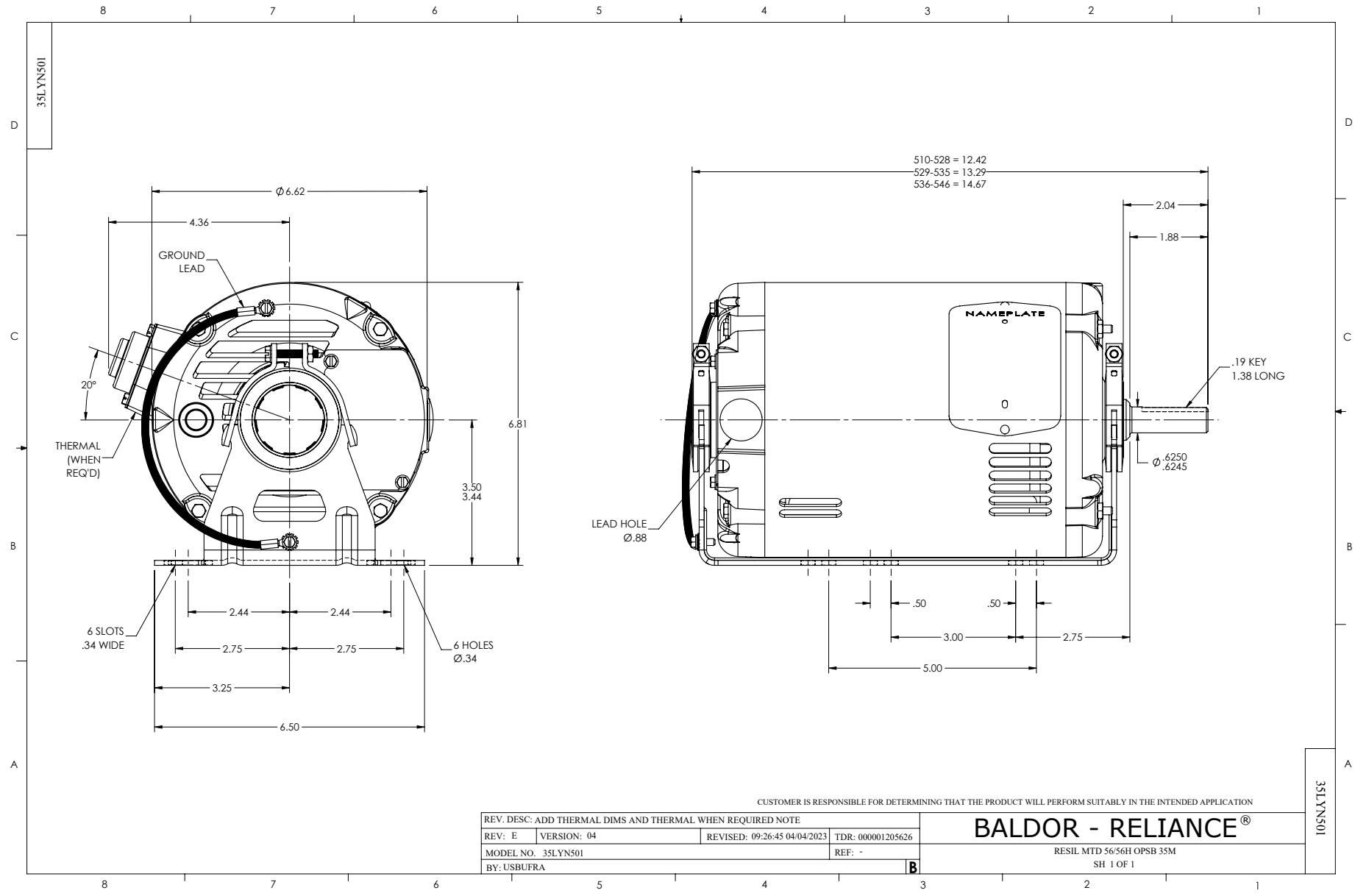
Winding: 35WGG312-R005	**Type:** 3526M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.95 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			5.8/2.9	**Breakdown Torque**	25.1 LB-FT
R.P.M.			1770	**Pull-up Torque**	15 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	18.2 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	25.1 A
Service Factor (S.F.)			1.15	**No-load Current**	1.83 A
NEMA Nom. Eff.	86.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	9.39 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps			6.6/3.3	**Temp. Rise @ S.F. Load**	68°C
				Locked-rotor Power Factor	59.6
				Rotor inertia	0.188 lb-ft²

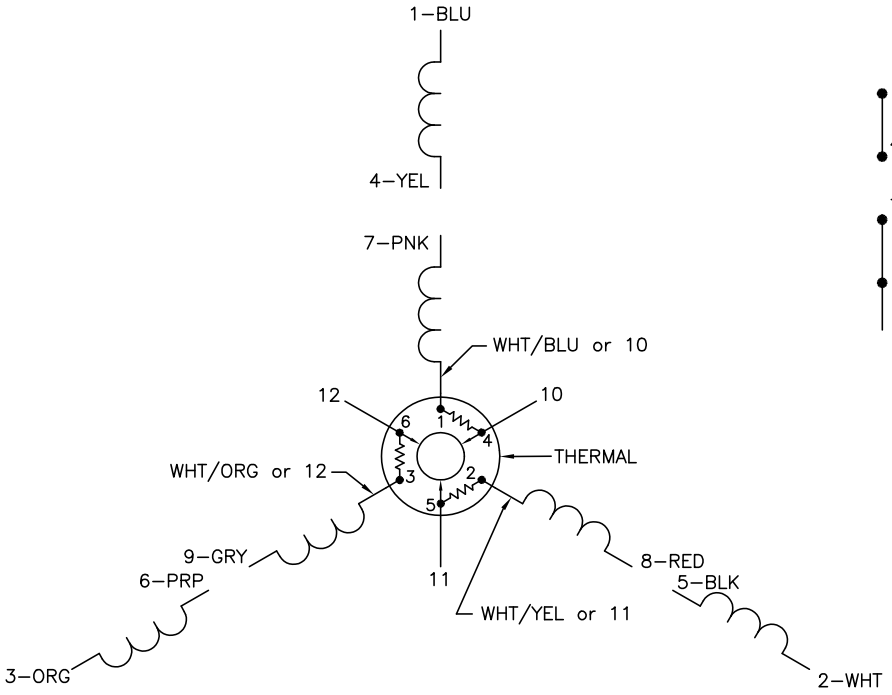
Load Characteristics 460 V, 60 Hz, 2 HP

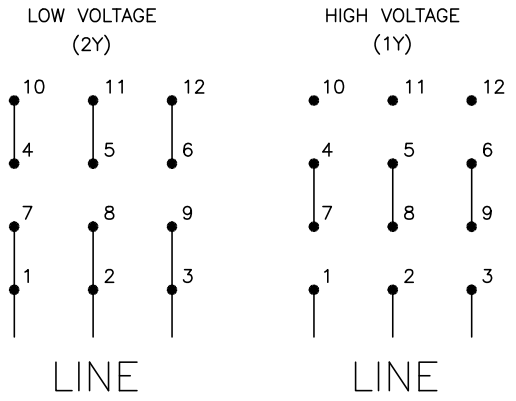
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	65	74	79	83	77
Efficiency	76.8	84.6	86.7	86.7	85.7	84.4	86.1
Speed	1792	1785	1777	1768	1760	1749	1763
Line amperes	1.91	2.14	2.48	2.93	3.47	4.01	3.25


ABB Motors and Mechanical Inc.
WINDING # 35WGG312
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1770 RPM 460 V 3526M
TORQUES(LB-FT): PO=25.1 PU=15 LR=18.2 LRA=25.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
10/30/2026 ACPERF, record # 107090


35LYN501
Ø 6.62
4.36
GROUND LEAD
20°
THERMAL (WHEN REQ'D)
6.81
3.50
3.44
2.44
2.44
2.75
2.75
3.25
6.50
6 SLOTS .34 WIDE
6 HOLES Ø.34
510-528 = 12.42
529-535 = 13.29
536-546 = 14.67
2.04
1.88
NAMEPLATE
.19 KEY
1.38 LONG
Ø .6250
.6245
LEAD HOLE Ø.88
.50
.50
3.00
2.75
5.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: E
VERSION: 04
REVISED: 09:26:45 04/04/2023
TDR: 000001205626
MODEL NO. 35LYN501
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
RESIL MTD 56/56H OPSB 35M
SH 1 OF 1
35LYN501

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007