Customer information packet

VL1406T

3HP, 3450RPM, 1PH, 60HZ, 182TC, 3532LC, ODTF
Class - None
Division - Not Applicable

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Specifications

Enclosure	ODTF
Frame	182TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUS
	C UR US
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
Current @ Voltage	13.600 A @ 230.0 V
	14.700 A @ 208.0 V
	27.200 A @ 115.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	Y
Type	AC
Mech. spec.	35U226
Base	
Status	PRD/A
Elec. spec.	35WGZ508
Layout	35LYU226
Eff. date	05-07-2024
CD Diagram	CD0055
Poles	02
Leads	4#14 A PH,2#18 B PH
Proprietary	False
Created date	06-22-2007

High Voltage Full Load Amps	13.6 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.18 IN
Power Factor	92
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	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1256L									
CAT.NO.	VL1406T								
SPEC.	35U226Z508								
HP	3								
VOLTS	115/230								
AMP	27.2/13.6								
RPM	3450								
FRAME	182TC	**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	H	**DES**	L	**CLASS**	B		
NEMA-NOM-EFF	75.5	**PF**	92						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6203						
ENCL	ODTF	**SN**							

Accessories

Part number	Description	Multiplier
35-1409	C FACE KIT	A8

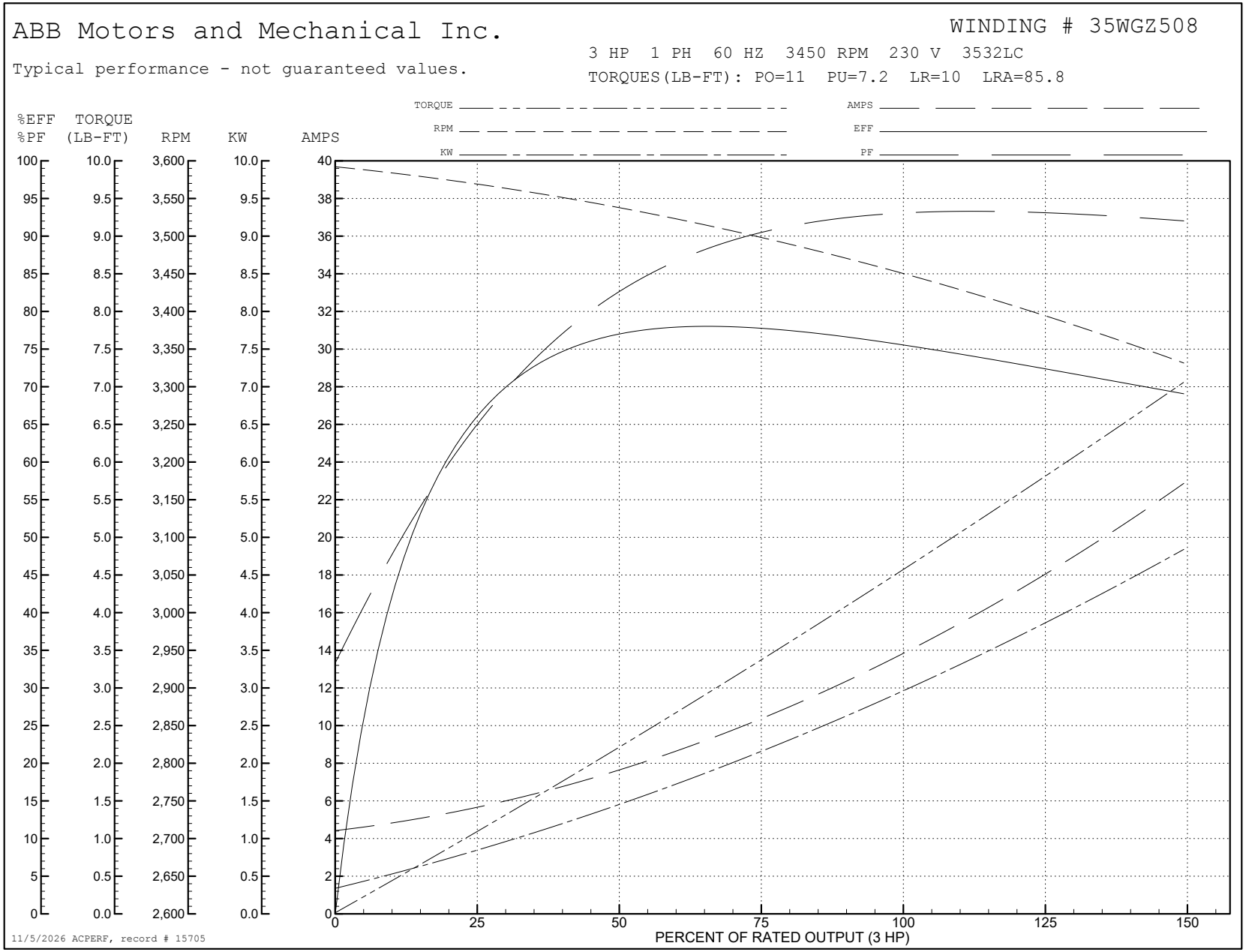
AC Induction Motor Performance Data
Record # 15705
Typical performance - not guaranteed values

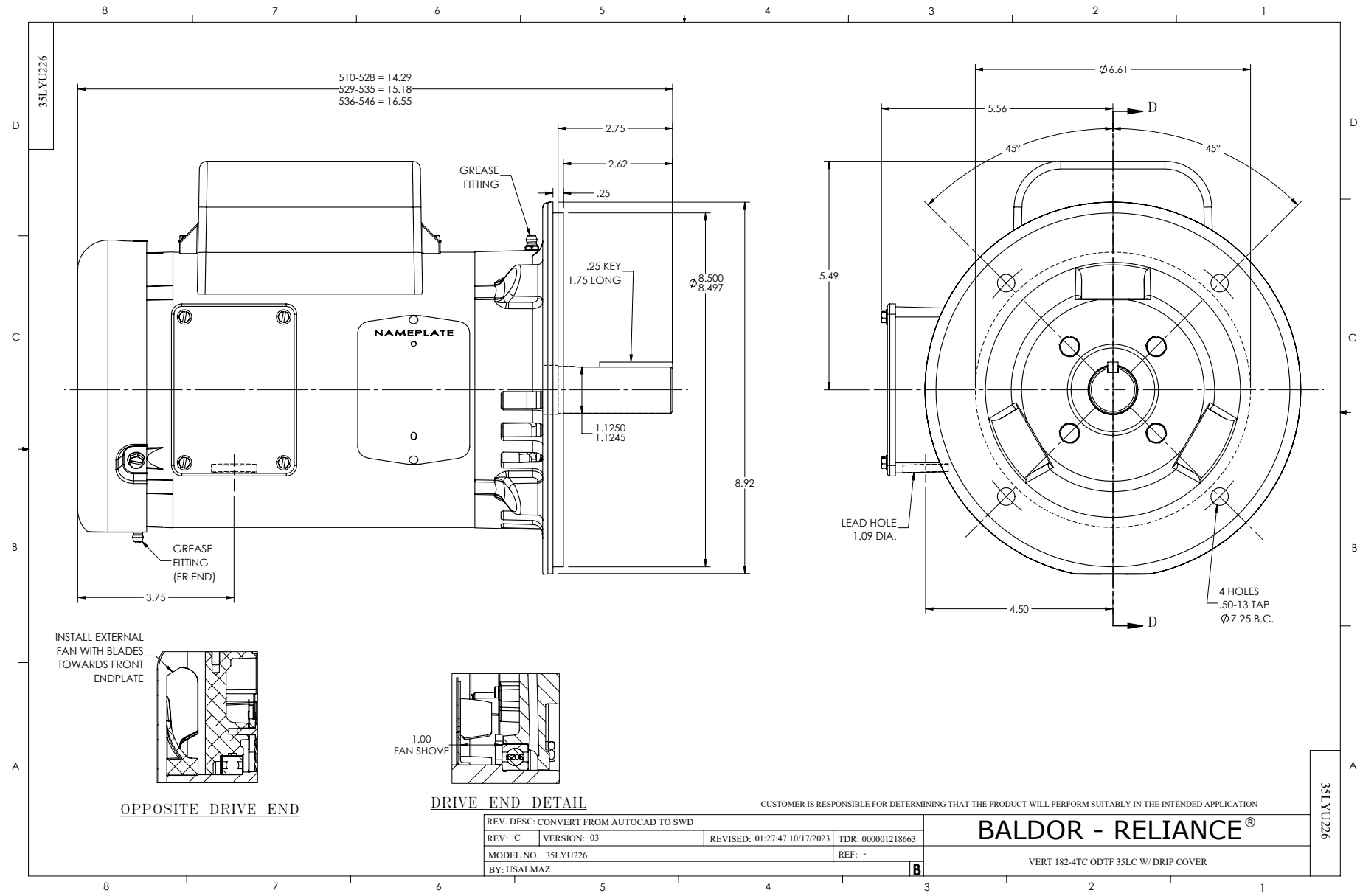
Winding: 35WGZ508-R001	**Type:** 3532LC	**Enclosure:** ODTF

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			27.2/13.6	**Breakdown Torque**	11 LB-FT
R.P.M.			3450	**Pull-up Torque**	7.2 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	10 LB-FT
NEMA Design Code	L	**KVA Code**	H	**Starting Current**	85.8 A
Service Factor (S.F.)			1.15	**No-load Current**	4.42 A
NEMA Nom. Eff.	75.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	0.812 Ω A Ph 1.04 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C

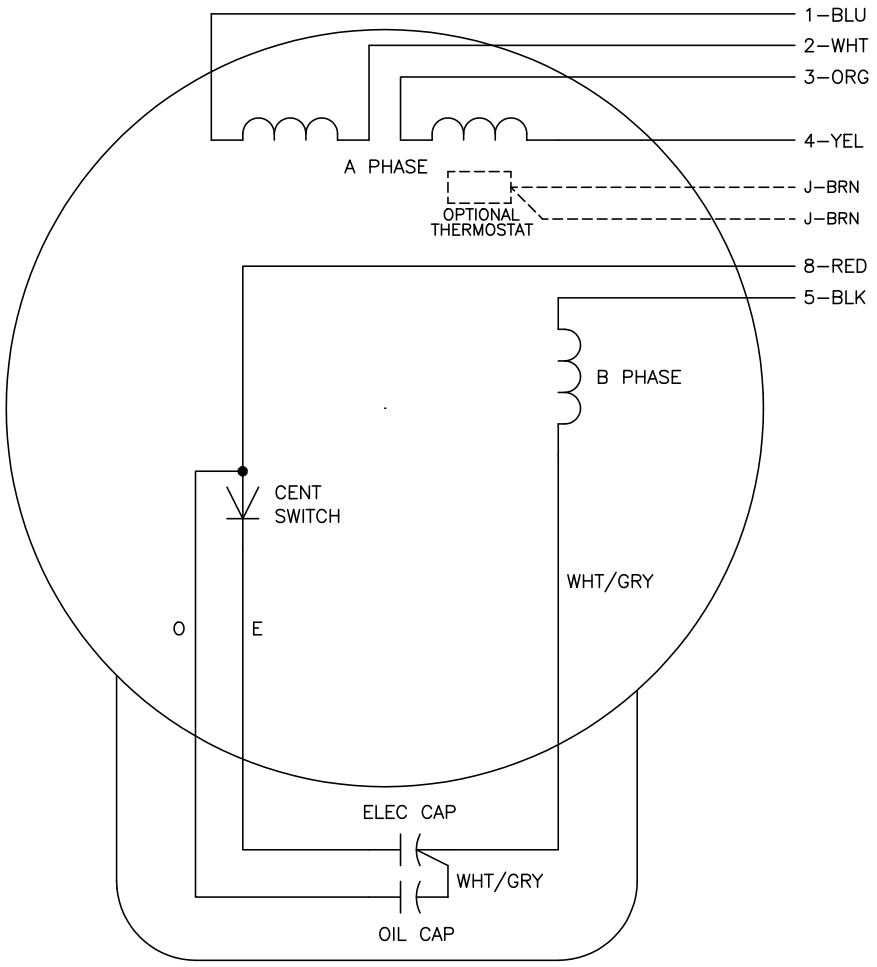
Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	67	83	89	92	93	93	93
Efficiency	62.1	74.3	77.4	76.6	73.4	68.4	74.7
Speed	3564	3534	3500	3458	3405	3324	3426
Line amperes	5.47	7.62	10.3	13.6	17.7	23	16.1


ABB Motors and Mechanical Inc.
WINDING # 35WGZ508
Typical performance - not guaranteed values.
3 HP 1 PH 60 HZ 3450 RPM 230 V 3532LC
TORQUES(LB-FT): PO=11 PU=7.2 LR=10 LRA=85.8
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/5/2026 ACPERF, record # 15705


35LYU226
510-528 = 14.29
529-535 = 15.18
536-546 = 16.55
2.75
2.62
.25
GREASE FITTING
.25 KEY
1.75 LONG
Ø8.500
8.497
NAMEPLATE
1.1250
1.1245
8.92
GREASE FITTING (FR END)
3.75
Ø6.61
5.56
D
45°
45°
5.49
LEAD HOLE
1.09 DIA.
4.50
4 HOLES
.50-13 TAP
Ø7.25 B.C.
INSTALL EXTERNAL FAN WITH BLADES TOWARDS FRONT ENDPLATE
1.00
FAN SHOVE
OPPOSITE DRIVE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: C
VERSION: 03
REVISED: 01:27:47 10/17/2023
TDR: 000001218663
MODEL NO. 35LYU226
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
VERT 182-4TC ODTF 35LC W/ DRIP COVER
35LYU226

CD0055



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	–
LOW OPP	1,3,5	2,4,8	–

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS