ABB BALDOR RELIANCE

Customer information packet

M3611T

3HP, 1750RPM, 3PH, 60HZ, 182T, 3546M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182T
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	3.000 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	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	9.100 A @ 208.0 V
	8.400 A @ 230.0 V
	4.200 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	35L100
Base	
Status	NLA/A
Elec. spec.	35WGP797
Layout	35LYL100
Eff. date	07-20-2010
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-29-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3542M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.52 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	1750 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.	M3611T								
SPEC.	35L100P797H1								
HP	3								
VOLTS	208-230/460								
AMP	9.1-8.4/4.2								
RPM	1750								
FRAME	182T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	87.5	**PF**	78						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6203						
ENCL	TEFC	**SN**							

Accessories

Part number	Description	Multiplier
35-1325	C FACE KIT	A8

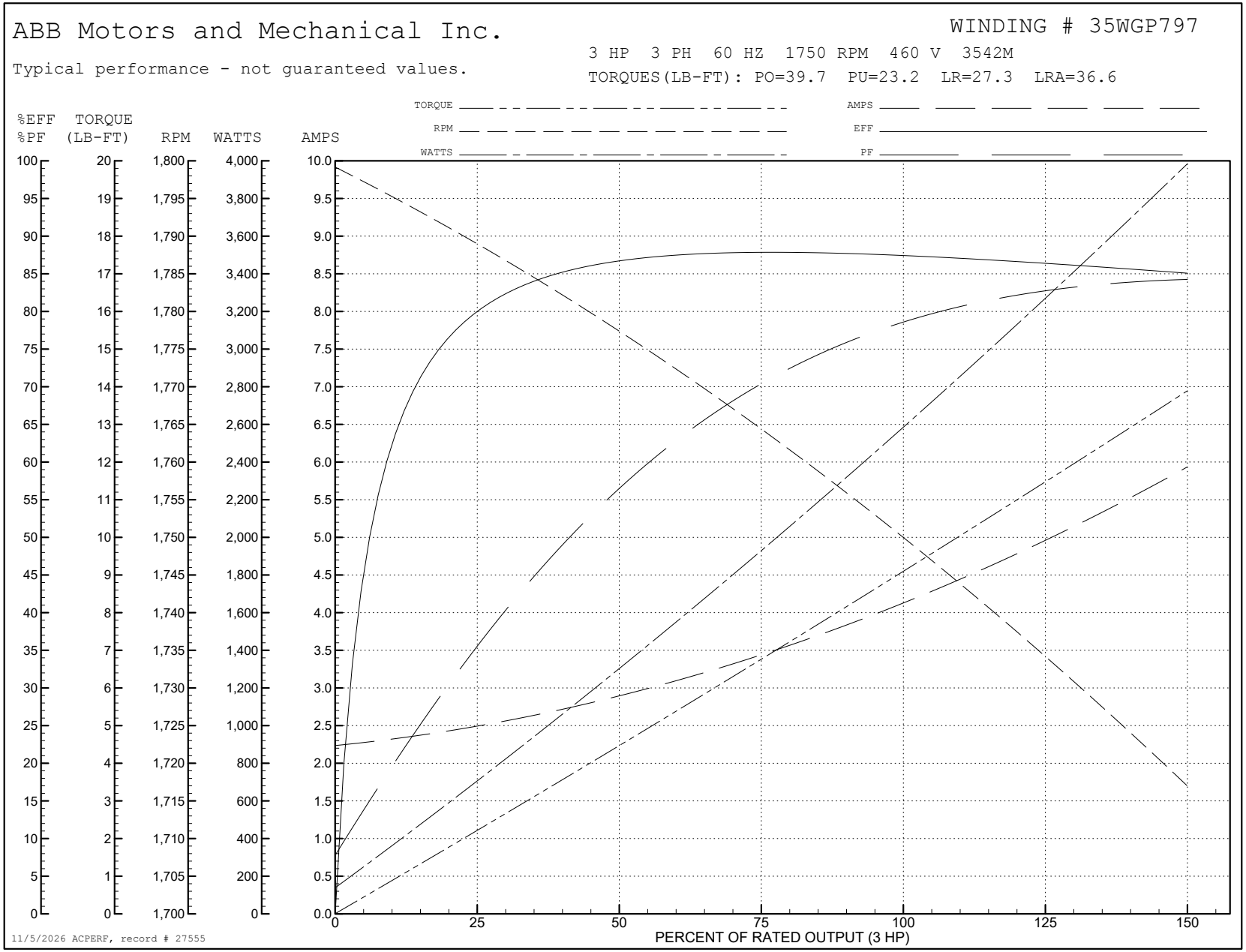
AC Induction Motor Performance Data
Record # 27555
Typical performance - not guaranteed values

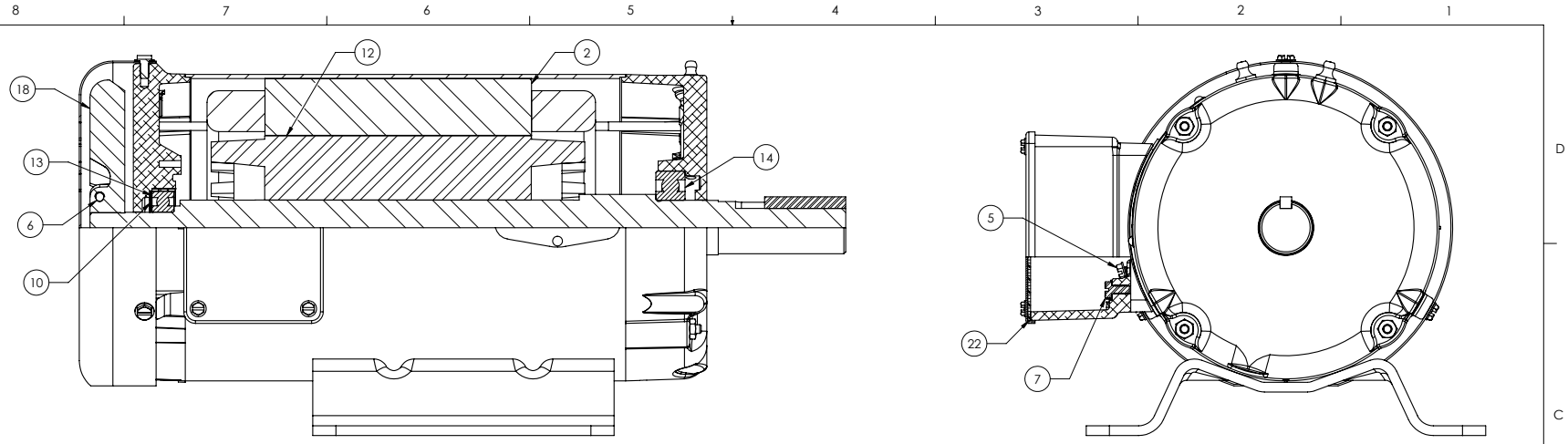
Winding: 35WGP797-R001	**Type:** 3542M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	9.08 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			9.1-8.4/4.2	**Breakdown Torque**	39.7 LB-FT
R.P.M.			1750	**Pull-up Torque**	23.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	27.3 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	36.6 A
Service Factor (S.F.)			1.15	**No-load Current**	2.27 A
NEMA Nom. Eff.	87.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	4.59 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	66°C
S.F. Amps				**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	45
				Rotor inertia	0.248 LB-FT2

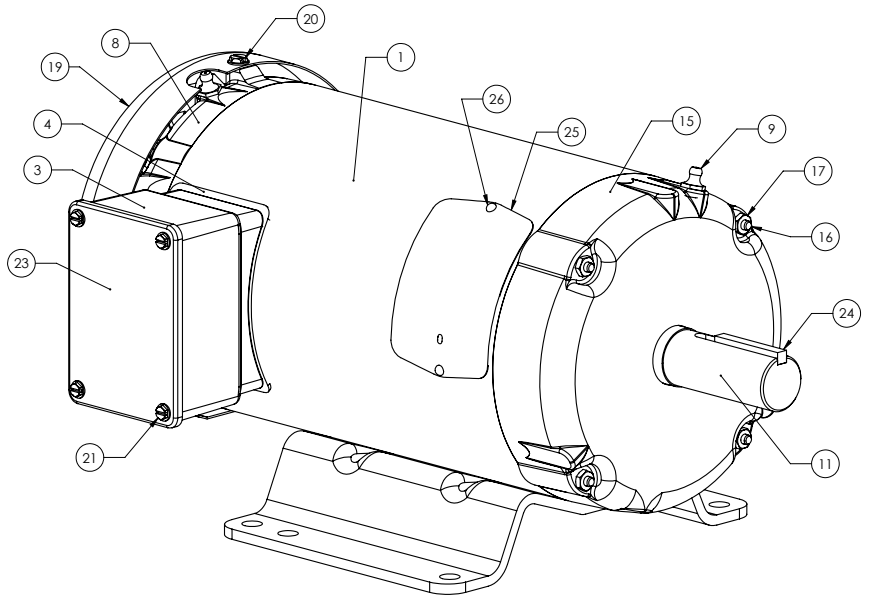
Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	58	71	78	82	85	80
Efficiency	79.9	86.5	87.8	87.5	86.5	85	86.9
Speed	1789	1777	1764	1750	1734	1717	1740
Line amperes	2.46	2.88	3.46	4.16	4.99	5.91	4.66


ABB Motors and Mechanical Inc.
WINDING # 35WGP797
3 HP 3 PH 60 HZ 1750 RPM 460 V 3542M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=39.7 PU=23.2 LR=27.3 LRA=36.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/5/2026 ACPERF, record # 27555



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	35SB0778J00	BAND/BASE ASM	1
2	STATOR	35WGZ797-C001/R001	1
3	35CB3009	CONDUIT BOX	1
4	36GS1000	CONDUIT BOX GASKET	1
5	51XB1016A07	10-16 X 7/16 SCREW	2
6	51XB1214A16	12-14X1.00 SCREW	1
7	11XW1032G06	10-32 X .38 GND SCREW	1
8	35EP3100M01	FRONT ENDPLATE	1
9	HW4500A01	GREASE FITTING	2
10	HA5100A03	WAVY WASHER	1
11	35SH1678J01	SHAFT	1
12	ROTOR	35WGZ797-C001/R001	1
13	BG6203C03	FRONT END BEARING	1
14	BG6206C03	PULLEY END BEARING	1
15	35EP3113A01	PULLY ENDPLATE	1
16	HA3100A42	THRUBOLT	4
17	XY1032A02	HEX NUT 3/4	4
18	35FN3002A05	EXTERNAL FAN	1
19	35FH4005A84	FAN HOUSING	1
20	51XW1032A06	1/4-20 X 1/2 SCREW	3
21	51XW0832A07	8-32 X 7/16 SCREW	4
22	35GS1030	CB LID GASKET	1
23	35CB4521	CB LID	1
24	HW2501E16	0.25 x 1.75 KEY	1
25	NP1256L	NAMEPLATE	1
26	85XU0407S04	4-7 X 1/4 DRIVE PIN	2

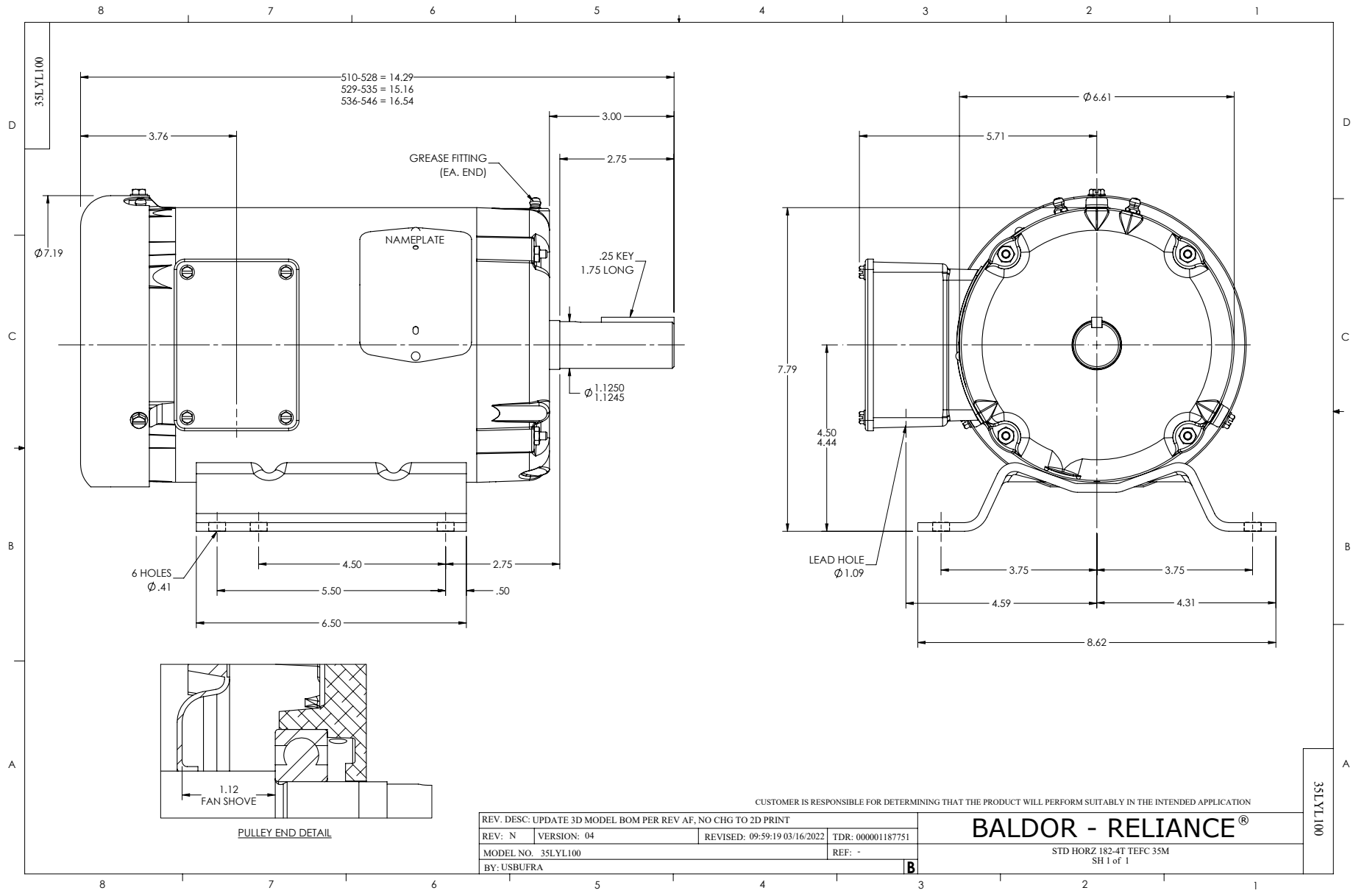


REV. DESC: NEW
REV: - VERSION: 00 REVISED: 10:48:31 08/31/2010 TDR: 000000556262
MODEL NO. 35LYL100
BY: ENWINB0 B

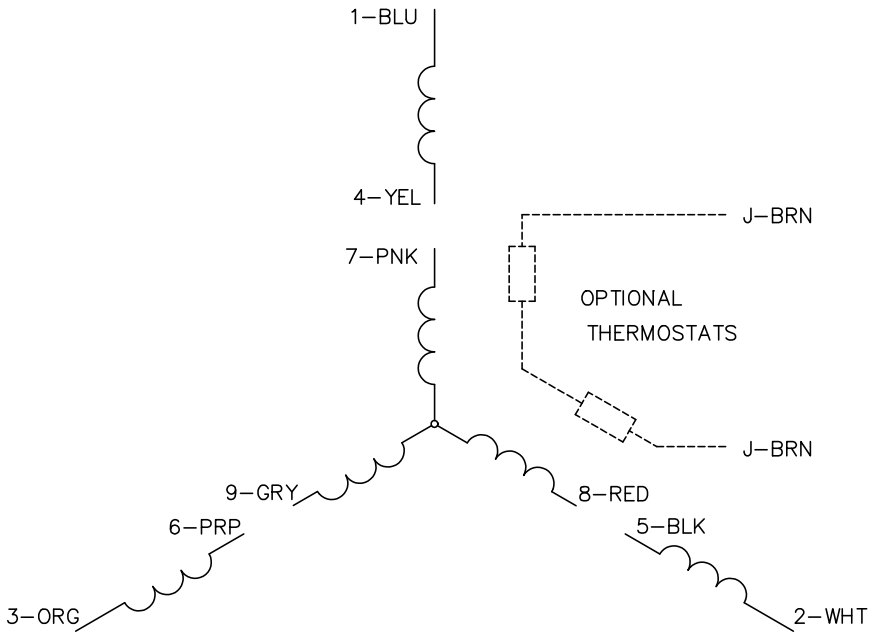
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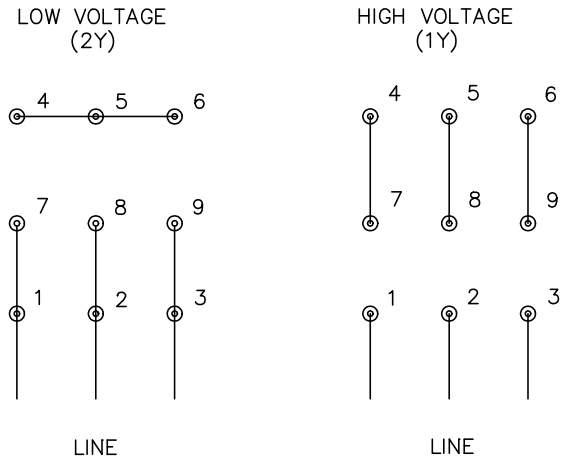
PARTS LIST

35L100P797H1


35LYL100
510-528 = 14.29
529-535 = 15.16
536-546 = 16.54
3.00
3.76
2.75
GREASE FITTING
(EA. END)
Ø7.19
NAMEPLATE
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
6 HOLES
Ø.41
4.50
2.75
5.50
.50
6.50
Ø6.61
5.71
7.79
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
4.59
4.31
8.62
1.12
FAN SHOVE
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV AF, NO CHG TO 2D PRINT
REV: N
VERSION: 04
REVISED: 09:59:19 03/16/2022
TDR: 000001187751
MODEL NO. 35LYL100
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 35M
SH 1 of 1
35LYL100

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