ABB BALDOR RELIANCE

Customer information packet

VL3609T

3HP, 1725RPM, 1PH, 60HZ, 184TC, 3634LC, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184TC
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	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	14.000 A @ 230.0 V
	15.500 A @ 208.0 V
	28.000 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.0 a

Part Detail

Revision	AA
Type	AC
Mech. spec.	36E003
Base	
Status	PRD/A
Elec. spec.	36WGY129
Layout	36LYE003
Eff. date	05-09-2025
CD Diagram	CD0055
Poles	04
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K
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	3634LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.55 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	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

NP1256L									
CAT.NO.	VL3609T								
SPEC.	36E03Y129								
HP	3								
VOLTS	115/230								
AMP	28/14								
RPM	1725								
FRAME	184TC	**HZ**	60			**PH**	1		
SER.F.	1.00	**CODE**	K	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	78	**PF**	85						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							

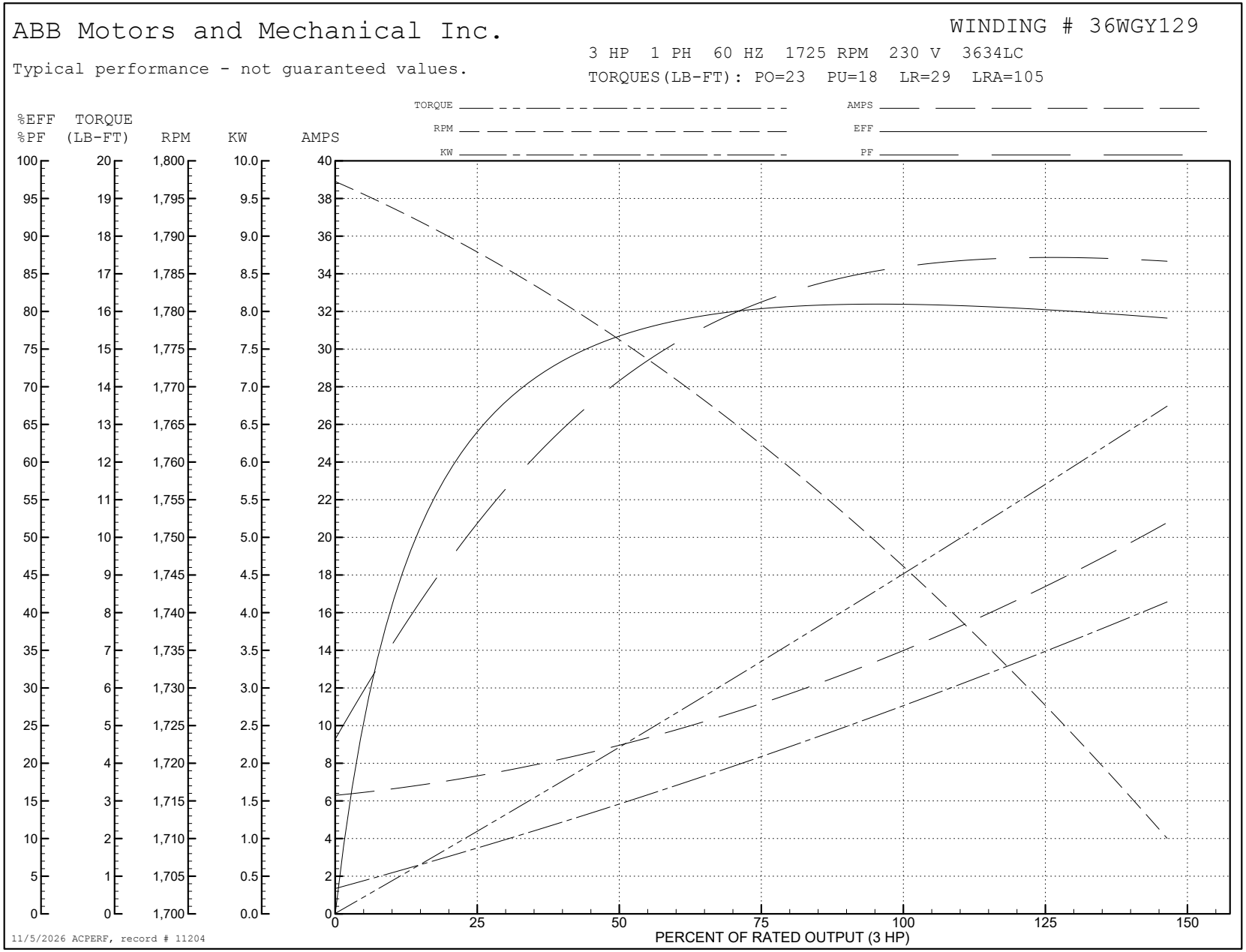
AC Induction Motor Performance Data
Record # 11204
Typical performance - not guaranteed values

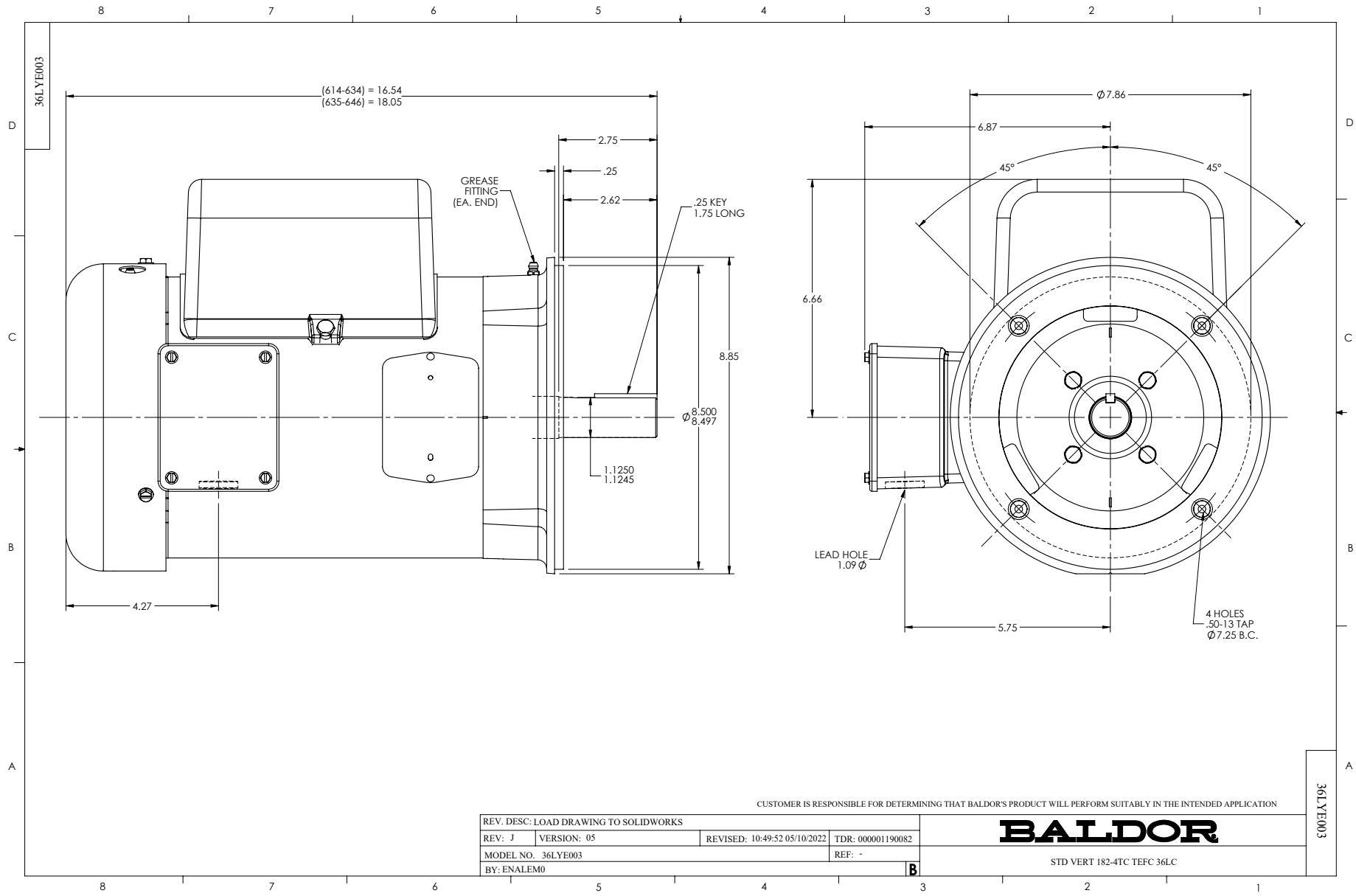
Winding: 36WGY129-R001	**Type:** 3634LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	9 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			28/14	**Breakdown Torque**	23 LB-FT
R.P.M.			1725	**Pull-up Torque**	18 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	29 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	105 A
Service Factor (S.F.)			1	**No-load Current**	6.35 A
NEMA Nom. Eff.	78	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.688 Ω A Ph 0.628 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	86°C

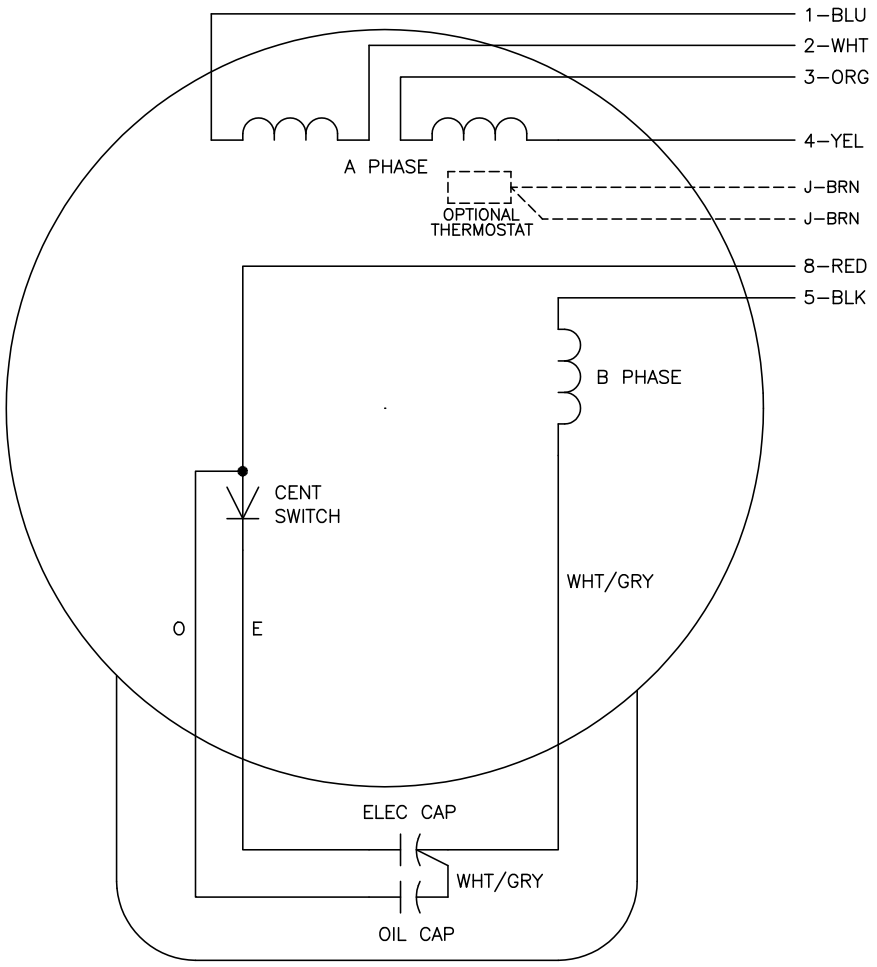
Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	53	71	81	86	88	89
Efficiency	63.3	76.2	80.4	81.4	80.7	78.8
Speed	1787	1775	1762	1747	1730	1709
Line amperes	7.25	9	11.3	14	17.1	20.8


ABB Motors and Mechanical Inc.
WINDING # 36WGY129
3 HP 1 PH 60 HZ 1725 RPM 230 V 3634LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=23 PU=18 LR=29 LRA=105
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 # 11204


36LYE003
(614-634) = 16.54
(635-646) = 18.05
2.75
.25
2.62
GREASE FITTING (EA. END)
.25 KEY 1.75 LONG
8.85
Ø8.500 8.497
1.1250 1.1245
4.27
Ø7.86
6.87
45°
45°
6.66
LEAD HOLE 1.09 Ø
5.75
4 HOLES .50-13 TAP Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: J
VERSION: 05
REVISED: 10:49:52 05/10/2022
TDR: 000001190082
MODEL NO. 36LYE003
REF: -
BY: ENALEM0
B
BALDOR
STD VERT 182-4TC TEFC 36LC
36LYE003

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