

ABB BALDOR RELIANCE III

Customer information packet

VL3609T

3HP, 1725RPM, 1PH, 60HZ, 184TC, 3634LC, TEFC

Class - None

Division - Not Applicable

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. @ 25°C		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

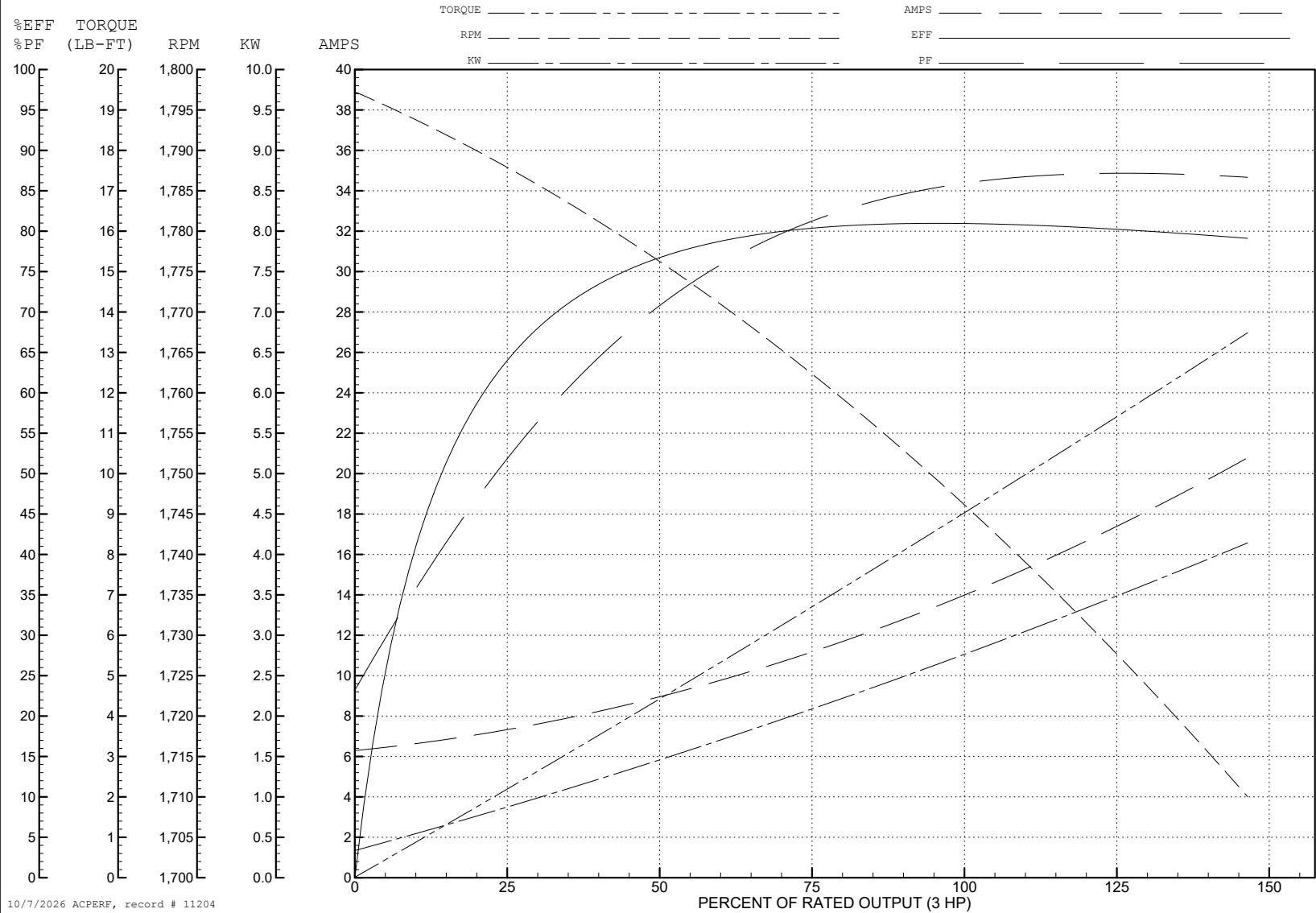
ABB Motors and Mechanical Inc.

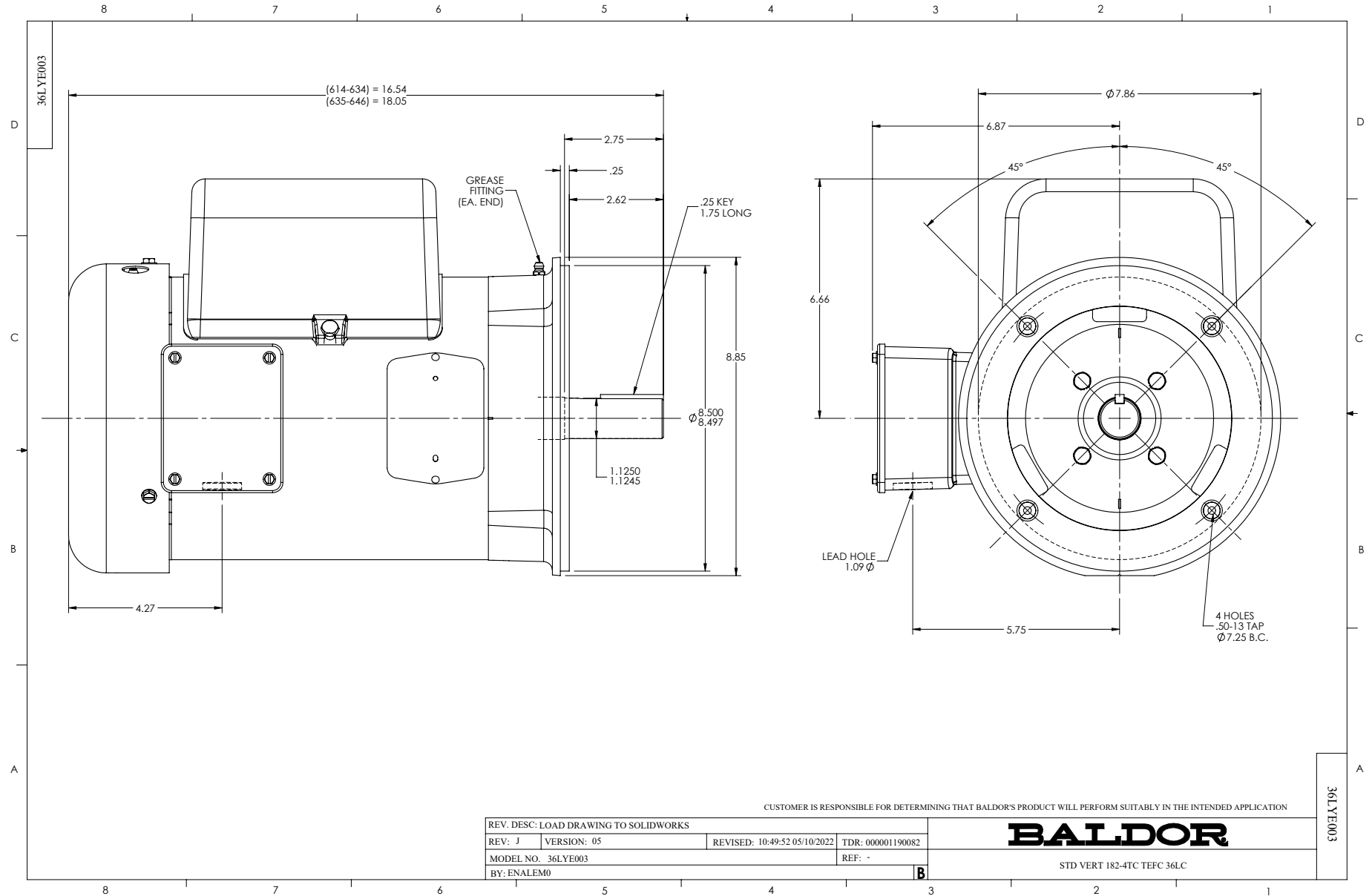
WINDING # 36WGY129

Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 1725 RPM 230 V 3634LC

TORQUES (LB-FT) : PO=23 PU=18 LR=29 LRA=105





CD0055

