BALDOR • RELIANCE

Customer information packet

HBEM3607T

32M 6P TEFC HOR 182T
Class - None
Division - Not Applicable

1/18/2025 8:48:32 PM

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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM
	WEEE
	CURUSEEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.400 A @ 460.0 V
	4.800 A @ 230.0 V
	5.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	E
Type	AC
Mech. spec.	36T429
Base	
Status	PRD/A
Elec. spec.	36WGS916
Layout	36LYT429
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	01-05-2022

High Voltage Full Load Amps	2.4 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.54 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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

NP4246A01A01												
CAT #	HBEM3607T			**WGT**	72	**LBS**						
SPEC	36T429S916G1			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	54					
HP	1.5			**MAG CUR**	3/1.5							
VOLTS	230/460					**NEMA NOM. EFF**	87.5					
AMPS	4.8/2.4					**PF**	67					
RATING	40C AMB-CONT											
RPM	1165					**MAX RPM**	1800					
FRAME	182T	**HZ**	60	**CODE**	K	**CLASS**	H					
SER.F.	1.15	**SF AMP**	5.4/2.7			**PH**	3	**DES**	B			
DE	6206			**ODE**	6205							
LUBRICATION	POLYREX EM											
ID LOGO	**INV TYPE:**		**VPWM**		**CHP**	60	**TO**	90	1.5:1			
ID LOGO	**WK2**	0.301	**CT**	6	**TO**	60	10:1					
ID LOGO	**SL HZ**	1.75	**VT**	3	**TO**	60	20:1					
										ID.ABB/BALDOR/		
YR												

AC Induction Motor Performance Data
Record # 92049
Typical performance - not guaranteed values

Winding: 36WGS916-R055	**Type:** 3632M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	6.86 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.8/2.4	**Breakdown Torque**	23.8 LB-FT
R.P.M.			1165	**Pull-up Torque**	12.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.3 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	15.8 A
Service Factor (S.F.)			1.15	**No-load Current**	1.47 A
NEMA Nom. Eff.	87.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	7.12 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps			5.4/2.7	**Temp. Rise @ S.F. Load**	40°C
				Locked-rotor Power Factor	30.1
				Rotor inertia	0.301 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	48	60	67	71	74	69
Efficiency	78.8	85.7	87.5	87.4	86.4	85.3	86.8
Speed	1192	1185	1177	1168	1158	1148	1162
Line amperes	1.57	1.77	2.07	2.43	2.88	3.36	2.7

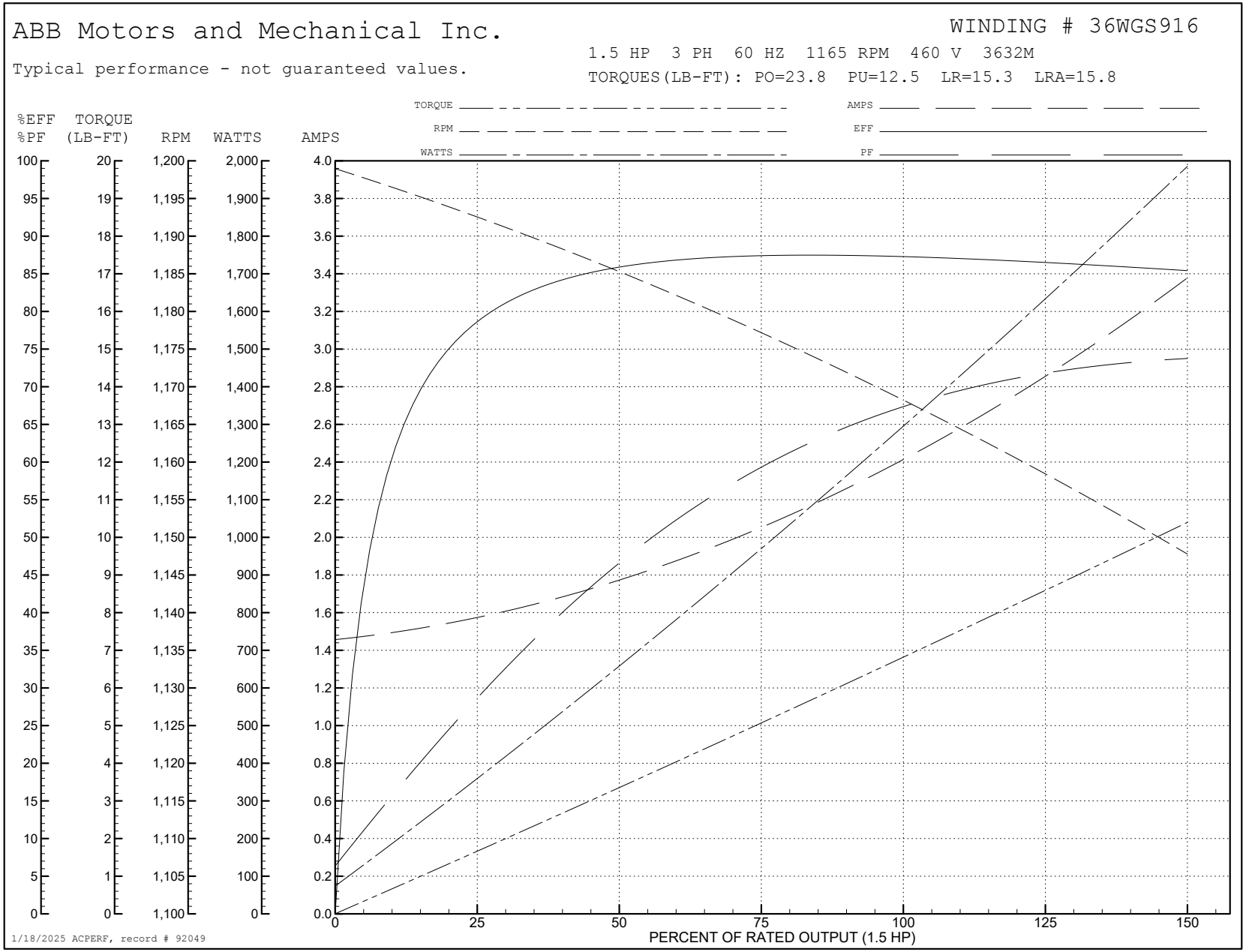
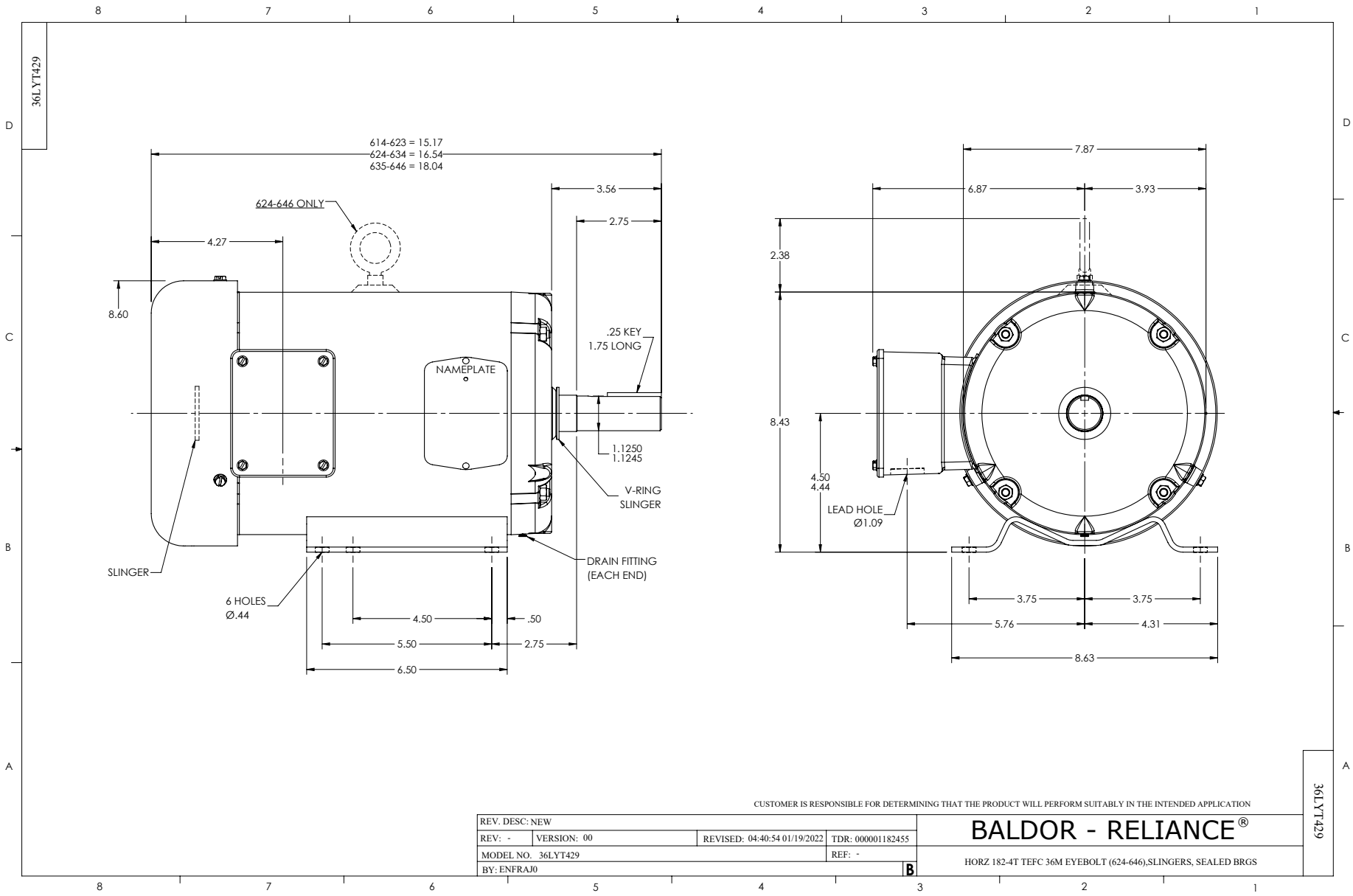
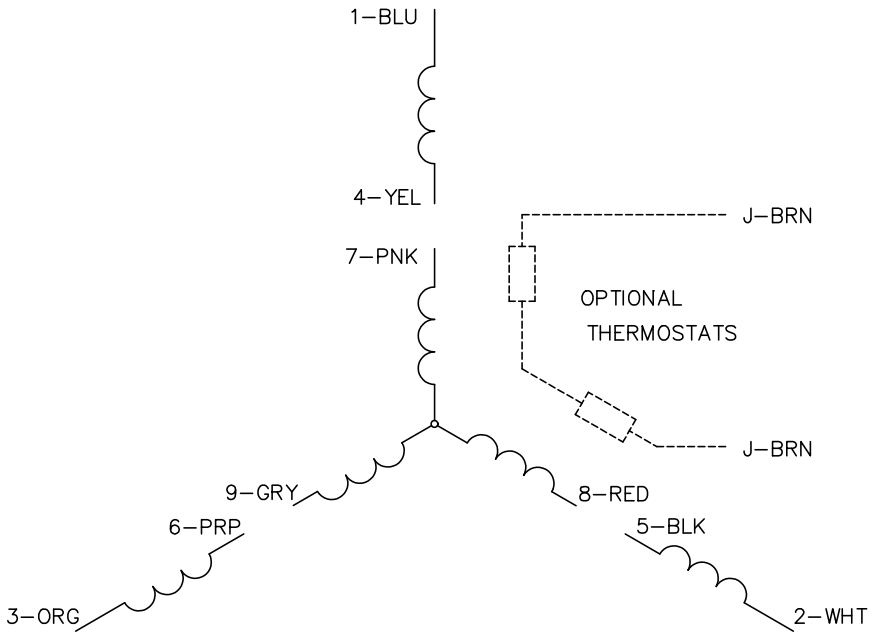
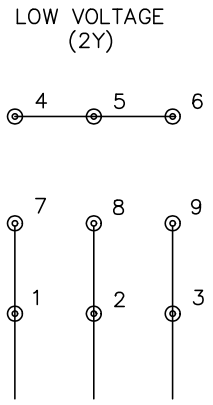


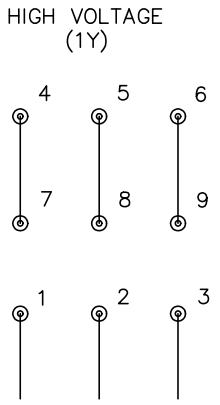
ABB Motors and Mechanical Inc.
WINDING # 36WGS916
1.5 HP 3 PH 60 HZ 1165 RPM 460 V 3632M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=23.8 PU=12.5 LR=15.3 LRA=15.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
1/18/2025 ACPERF, record # 92049


36LYT429
614-623 = 15.17
624-634 = 16.54
635-646 = 18.04
624-646 ONLY
3.56
2.75
4.27
8.60
.25 KEY
1.75 LONG
NAMEPLATE
1.1250
1.1245
V-RING
SLINGER
SLINGER
6 HOLES
Ø.44
DRAIN FITTING
(EACH END)
4.50
.50
5.50
2.75
6.50
7.87
6.87
3.93
2.38
8.43
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 04:40:54 01/19/2022 TDR: 000001182455
MODEL NO. 36LYT429 REF: -
BY: ENFRAJ0 B
BALDOR - RELIANCE®
HORZ 182-4T TEFC 36M EYEBOLT (624-646),SLINGERS, SEALED BRGS
36LYT429

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