



Customer information packet

ZDWNM3609T

2HP, 1760RPM, 3PH, 60HZ, 182TC, 3628M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	182TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	UR CSA
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	2.900 A @ 460.0 V 5.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.9 a

Part detail

Revision	B
Type	AC
Mech. spec.	36J562
Base	
Status	PRD/A
Elec. spec.	36WGR049
Layout	36LYJ562
Eff. date	09-13-2017
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-23-2016

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.77 IN
Power Factor	73
Product Family	Wash Down
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	Shaft Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP1609L					
CAT NO	ZDWNM3609T				
SPEC.	36J562R049Z1				
FRAME	182TC	HP	2 TE		
VOLTS	230/460				
MAG CUR	3.4/1.7	FLA	5.8/2.9		
RPM	1760	RPM MAX	6000		
HZ	60	PH	3	CLASS	H
SER.F.	1.00	DES	B	SL HZ	1.3
NEMA-NOM-EFF	88.5	WK2	0.26		
BLWR V	PH	HZ	A		
RATING	40C AMB-CONT				
DE BRG	6206	ODE BRG	6205		
CC	010A	SER.NO			

AC Induction Motor Performance Data

Record # 57979

Typical performance - not guaranteed values

Winding: 36WGR049-R002		Type: 3628M	Enclosure: TENV	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	5.98 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	5.8/2.9	Breakdown Torque	23.2 LB-FT	
R.P.M.	1760	Pull-up Torque	13.2 LB-FT	
Hz	60 Phase	Locked-rotor Torque	14.9 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	22.3 A	
Service Factor (S.F.)	1	No-load Current	1.7 A	
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	5.6879 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	59°C	
		Locked-rotor Power Factor	43.2	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	53	65	73	78	81
Efficiency	79.9	86.9	88.7	89	88.5	87.7
Speed	1790.3	1781.4	1772.5	1762	1751	1739
Line amperes	1.82	2.08	2.43	2.88	3.4	3.96

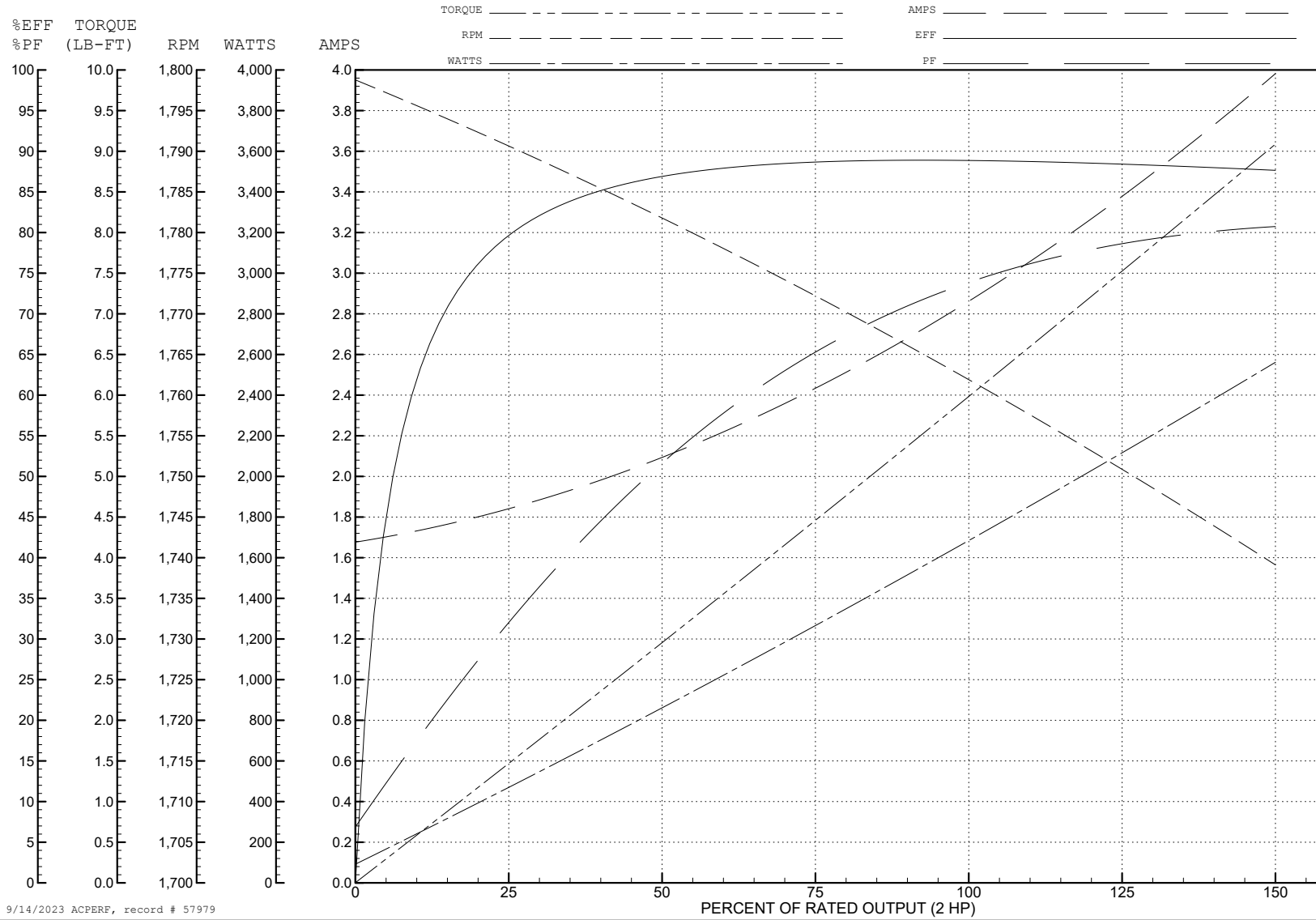
ABB Motors and Mechanical Inc.

WINDING # 36WGR049

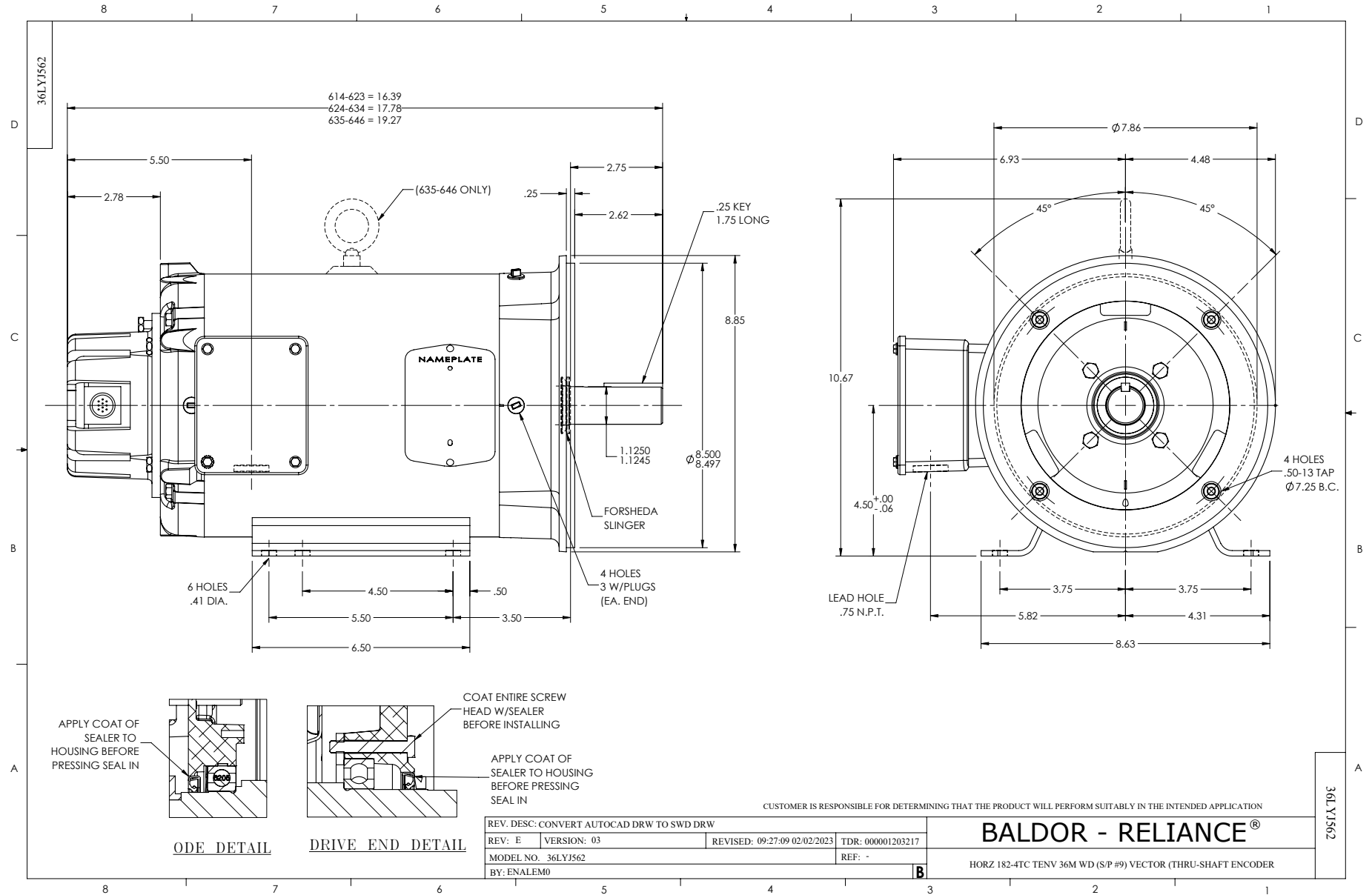
Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 460 V 3628M

TORQUES (LB-FT): PO=23.2 PU=13.2 LR=14.9 LRA=22.3



9/14/2023 ACPERF, record # 57979



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS