



Customer information packet

VEJMM3218T-5

5HP, 1750RPM, 3PH, 60HZ, 184JM, 3632M, ODTF, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
Frame	184JM
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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	5.200 A @ 575.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	5.2 a
Insulation Class	F

Part detail

Revision	N
Type	AC
Mech. spec.	36N072
Base	
Status	PRD/A
Elec. spec.	36WGT160
Layout	36LYN072
Eff. date	05-01-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	01-01-0001

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.06 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1259L											
CAT.NO.	VEJMM3218T-5										
SPEC.	36N072T160E7										
HP	5										
VOLTS	575										
AMP	5.2										
RPM	1750										
FRAME	184JM		HZ	60			PH	3			
SER.F.	1.15	CODE	K	DES	B	CL	F				
NEMA-NOM-EFF	89.5	PF	80								
RATING	40C AMB-CONT										
CC	010A										
DE	6207		ODE	6205							
ENCL	ODTF	SN									
	INVERTER DUTY 20:1 VT										

AC Induction Motor Performance Data

Record # 10605

Typical performance - not guaranteed values

Winding: 36WGT160-R001			Type: 3632M		Enclosure: OPSB		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		15 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		5.2	Breakdown Torque		51 LB-FT		
R.P.M.		1750	Pull-up Torque		30 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		37 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		40 A
Service Factor (S.F.)		1.15	No-load Current		2.6 A		
NEMA Nom. Eff.		89.5	Power Factor	80	Line-line Res. @ 25°C		4.6 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		41°C
S.F. Amps					Temp. Rise @ S.F. Load		51°C
					Locked-rotor Power Factor		56
					Rotor inertia		0.297 LB-FT2

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	73	80	83	86	0
Efficiency	88	91.3	91.6	90.7	89.5	88	0
Speed	1788	1777	1767	1754	1740	1726	0
Line amperes	2.9	3.5	4.2	5.2	6.3	7.5	5.8

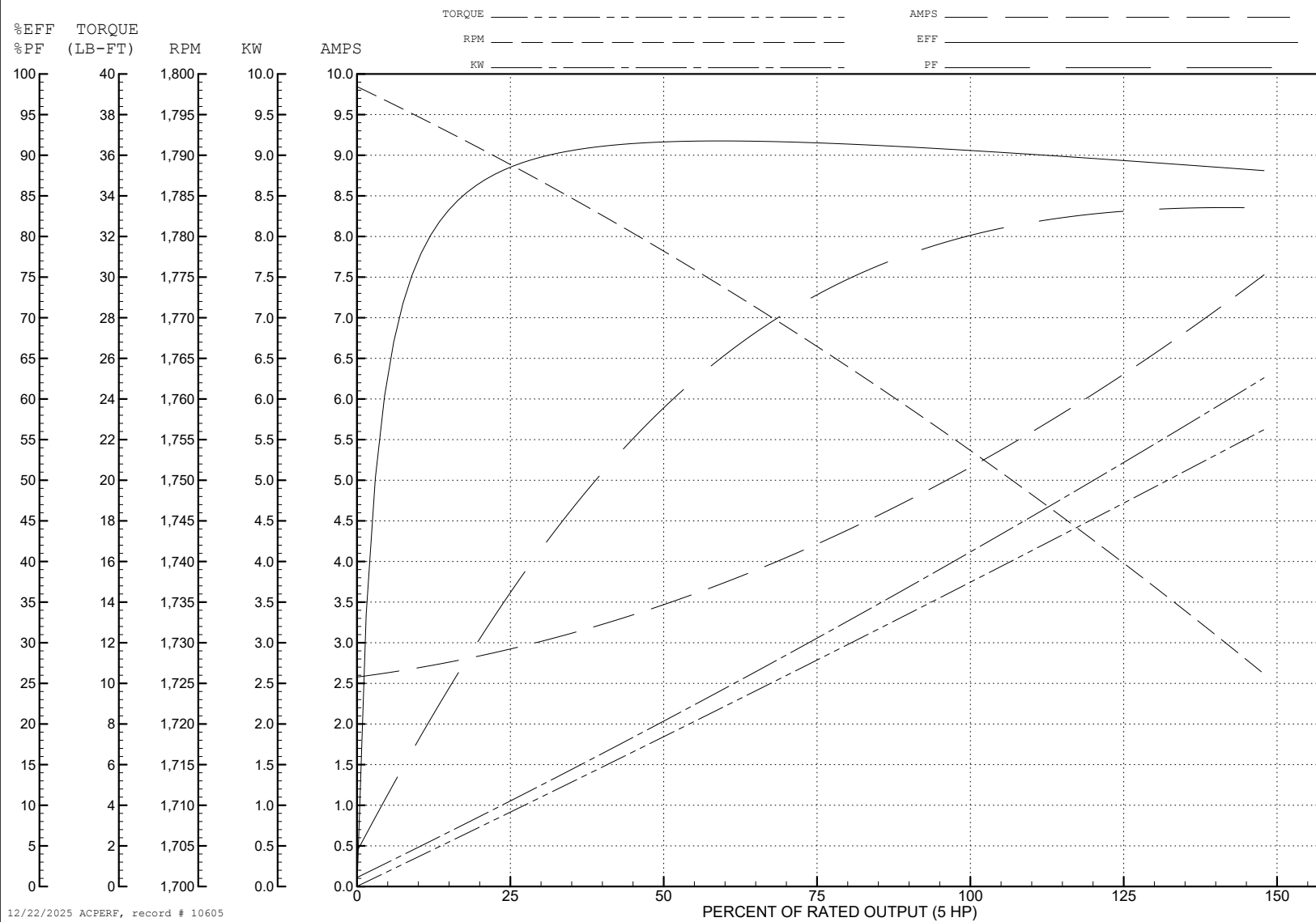
ABB Motors and Mechanical Inc.

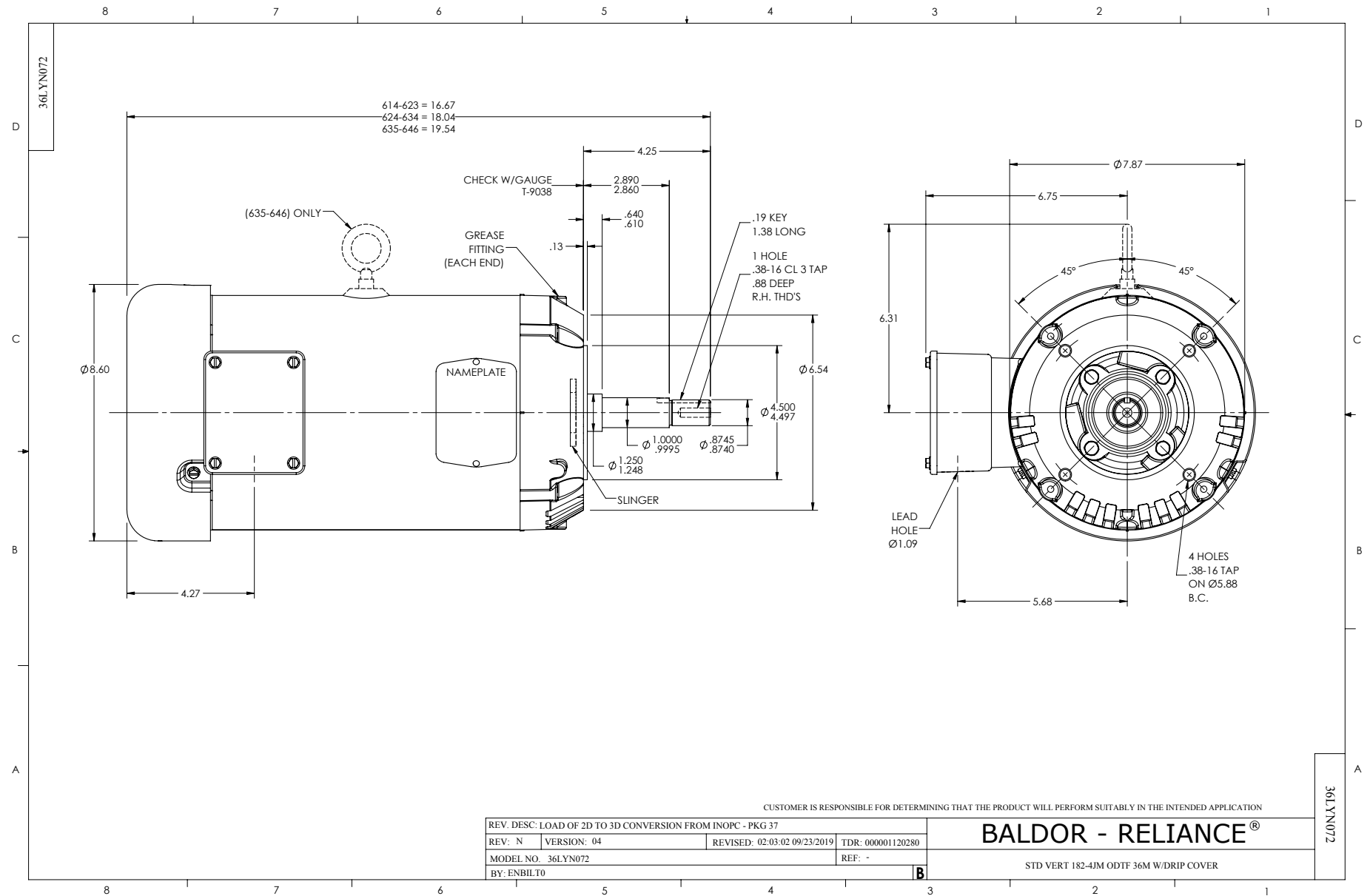
WINDING # 36WGT160

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 575 V 3632M

TORQUES (LB-FT) : PO=51 PU=30 LR=37 LRA=40





CD0006

TYPICAL WYE-CONNECTED MOTOR

1-BLU

J-BRN

OPTIONAL THERMOSTATS

J-BRN

3-ORG

2-WHT

TYPICAL DELTA-CONNECTED MOTOR

1-BLU

J-BRN

2-WHT

OPTIONAL THERMOSTATS

J-BRN

3-ORG

1

2

3

LINE

NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.

2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.

3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.

4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE® 3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED SH 1 of 1
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO	
MTL: —			

36WGT139: Electrical Design

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