ABB BALDOR RELIANCE

Customer information packet

VM7026T

3//2HP, 3460//2900RPM, 3PH, 60//50HZ, 182TC
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182TC
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
	2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA
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	3.200 A @ 380.0 V
	3.700 A @ 460.0 V
	6.400 A @ 190.0 V
	7.400 A @ 230.0 V
	7.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	H
Type	AC
Mech. spec.	36N024
Base	
Status	NLA/A
Elec. spec.	36WGT059
Layout	36LYN024
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	06-19-2010

Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3620M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.49 IN
Power Factor	91
Product Family	General Purpose
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	No Slinger
Speed	2900 rpm
	3460 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

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	36N024T059H1						
CAT.NO.	VM7026T						
HP	3//2	**T. CODE**	T3C				
VOLTS	208-230/460//190/380						
AMPS	7.8-7.4/3.7//6.4/3.2						
RPM	3460//2900						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	K		
RATING	40C AMB-CONT						
FRAME	182TC	**NEMA-NOM-EFF**	85.5				
PF	91						
BLANK							

AC Induction Motor Performance Data
Record # 36930
Typical performance - not guaranteed values

Winding: 36WGT059-R003	**Type:** 3620M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			3//2
Volts			208-230/460//190/380
Full Load Amps			7.8-7.4/3.7//6.4/3.2
R.P.M.			3460//2900
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	85.5	**Power Factor**	91
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	18.9 LB-FT
Pull-up Torque	12.8 LB-FT
Locked-rotor Torque	13.4 LB-FT
Starting Current	30.5 A
No-load Current	1.31 A
Line-line Res. @ 25ºC	4.72 Ω
Temp. Rise @ Rated Load	66°C
Locked-rotor Power Factor	51
Rotor inertia	0.0891 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	62	80	88	92	93	94
Efficiency	78.1	84.6	86.1	85.8	84.9	83.1
Speed	3562	3532	3499	3465	3426	3382
Line amperes	1.68	2.24	2.93	3.69	4.56	5.52

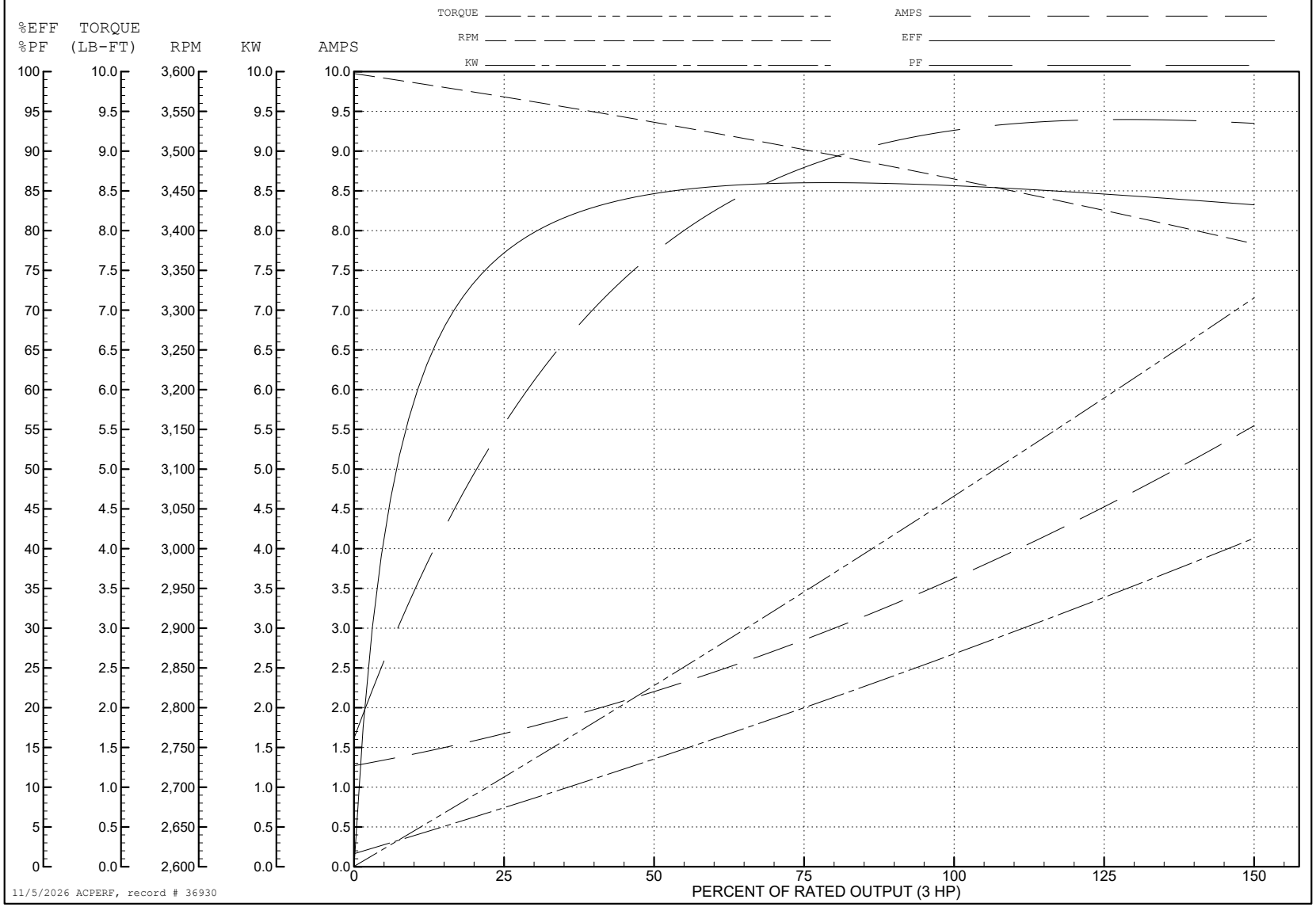
ABB Motors and Mechanical Inc.

WINDING # 36WGT059

3 HP 3 PH 60 HZ 3465 RPM 460 V 3620M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=18.9 PU=12.8 LR=13.4 LRA=30.5



AC Induction Motor Performance Data
Record # 36931
Typical performance - not guaranteed values

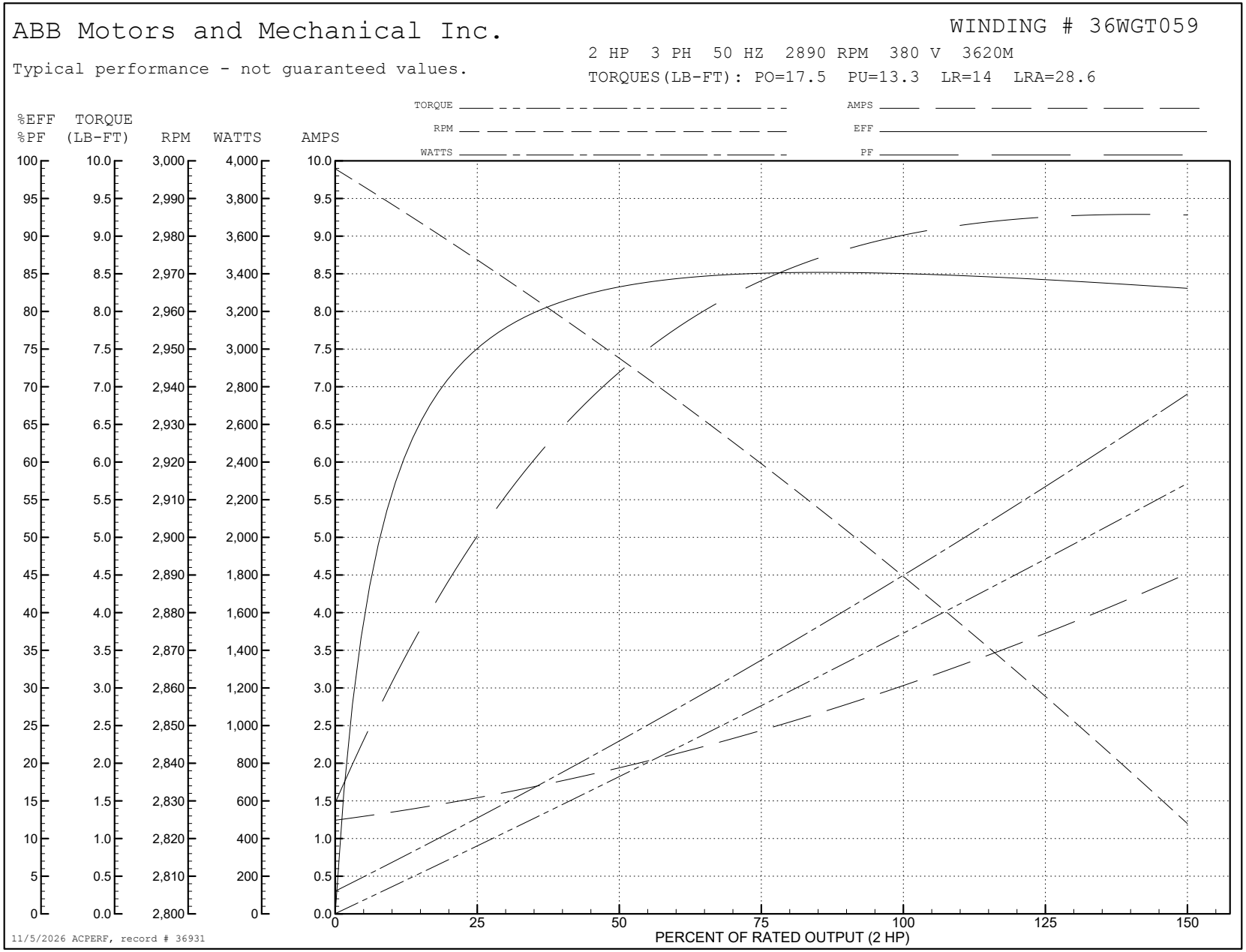
Winding: 36WGT059-R003	**Type:** 3620M	**Enclosure:** XPFC

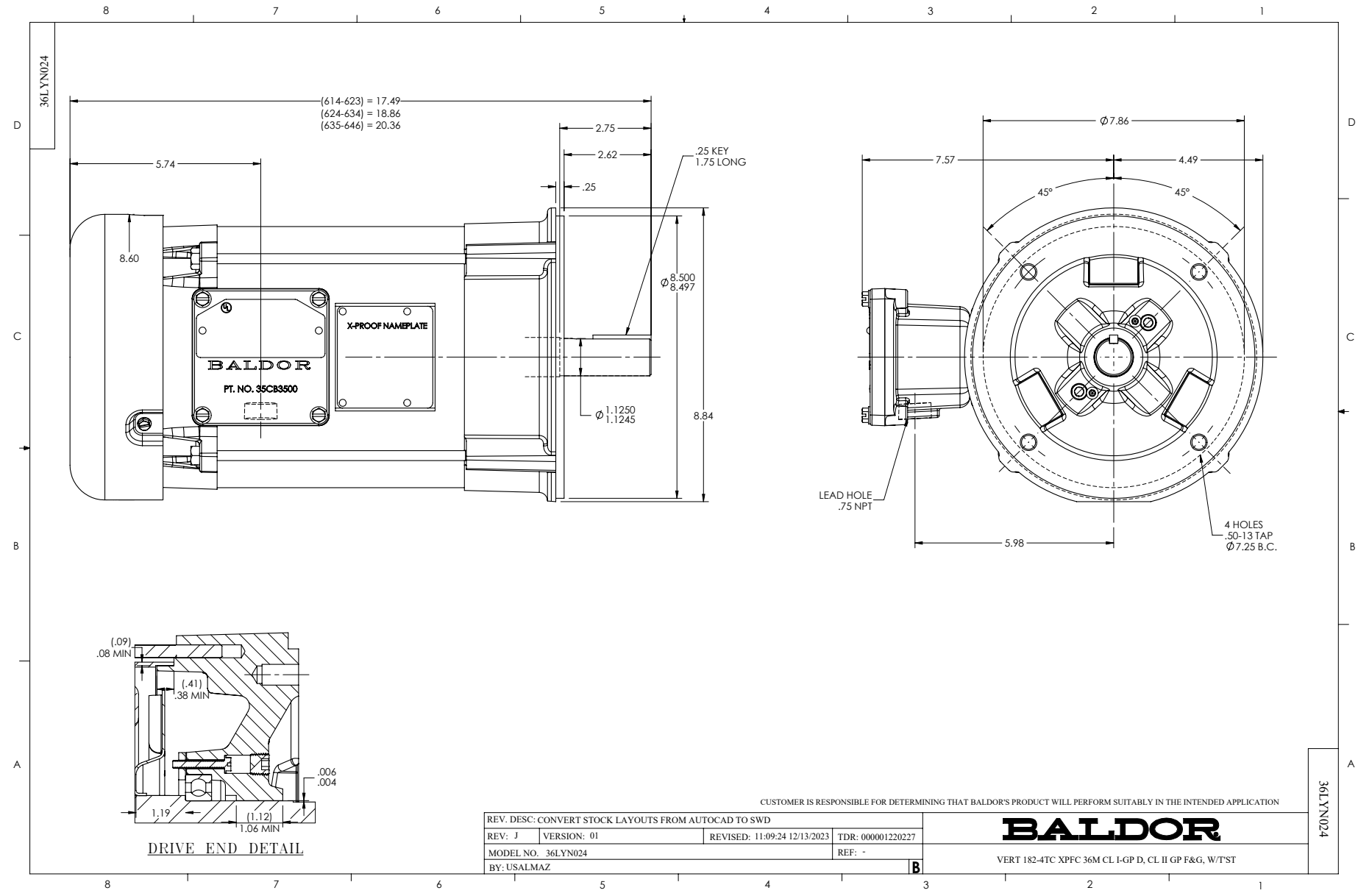
Nameplate Data			
Rated Output (HP)			3//2
Volts			208-230/460//190/380
Full Load Amps			7.8-7.4/3.7//6.4/3.2
R.P.M.			3460//2900
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	85.5	**Power Factor**	91
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	3.76 LB-FT
Start Configuration	direct on line
Breakdown Torque	17.5 LB-FT
Pull-up Torque	13.3 LB-FT
Locked-rotor Torque	14 LB-FT
Starting Current	28.6 A
No-load Current	1.27 A
Line-line Res. @ 25ºC	4.72 Ω
Temp. Rise @ Rated Load	50°C
Locked-rotor Power Factor	58
Rotor inertia	0.0891 LB-FT2

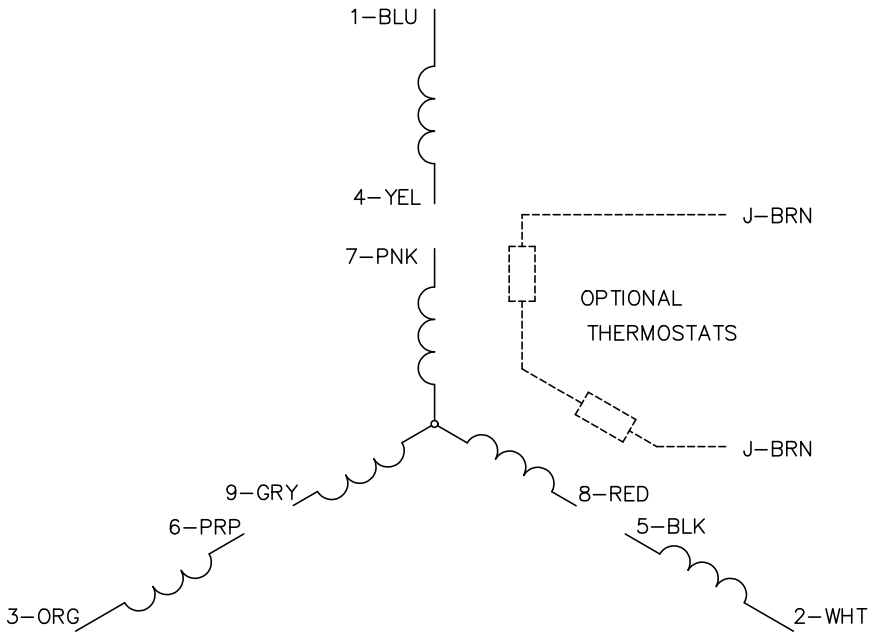
Load Characteristics 380 V, 50 Hz, 2 HP

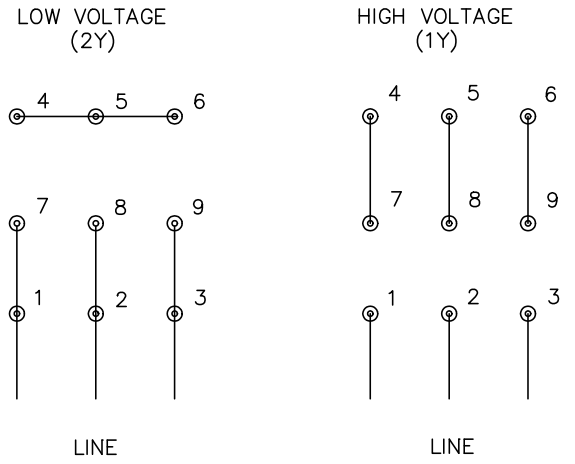
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	56	75	84	89	92	93
Efficiency	75.8	83.2	85.2	85.3	84.5	82.9
Speed	2969	2944	2917	2890	2858	2823
Line amperes	1.55	1.97	2.49	3.08	3.75	4.5


ABB Motors and Mechanical Inc.
WINDING # 36WGT059
Typical performance - not guaranteed values.
2 HP 3 PH 50 HZ 2890 RPM 380 V 3620M
TORQUES(LB-FT): PO=17.5 PU=13.3 LR=14 LRA=28.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/5/2026 ACPERF, record # 36931


36LYN024
(614-623) = 17.49
(624-634) = 18.86
(635-646) = 20.36
2.75
2.62
.25
.25 KEY
1.75 LONG
5.74
8.60
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø 8.500
8.497
Ø 1.1250
1.1245
8.84
Ø7.86
7.57
4.49
45°
45°
LEAD HOLE
.75 NPT
4 HOLES
.50-13 TAP
Ø7.25 B.C.
5.98
(.09)
.08 MIN
(.41)
.38 MIN
.006
.004
1.19
(1.12)
1.06 MIN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: J
VERSION: 01
REVISED: 11:09:24 12/13/2023
TDR: 000001220227
MODEL NO. 36LYN024
REF: -
BY: USALMAZ
B
BALDOR
VERT 182-4TC XPFC 36M CL I-GP D, CL II GP F&G, W/T'ST
36LYN024

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