ABB BALDOR RELIANCE

Customer information packet

EM7020T

1.5HP, 1170RPM, 3PH, 60HZ, 182T, 3632M, XPFC, F
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182T
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	1.500 HP @ 60 HZ
	1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.100 A @ 380.0 V
	2.400 A @ 460.0 V
	4.200 A @ 190.0 V
	4.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %

Part Detail

Revision	J
Type	AC
Mech. spec.	36N004
Base	
Status	PRD/A
Elec. spec.	36WGS916
Layout	36LYN004
Eff. date	02-19-2026
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	05-14-2012

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	2.1 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3632M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.42 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	1165 rpm

	970 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.	36N004S916G1						
CAT.NO.	EM7020T						
HP	1.5//1	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	4.8/2.4//4.2/2.1						
RPM	1165//970						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	K		
RATING	40C AMB-CONT						
FRAME	182T	**NEMA-NOM-EFF**	87.5				
		PF	67				
BLANK							

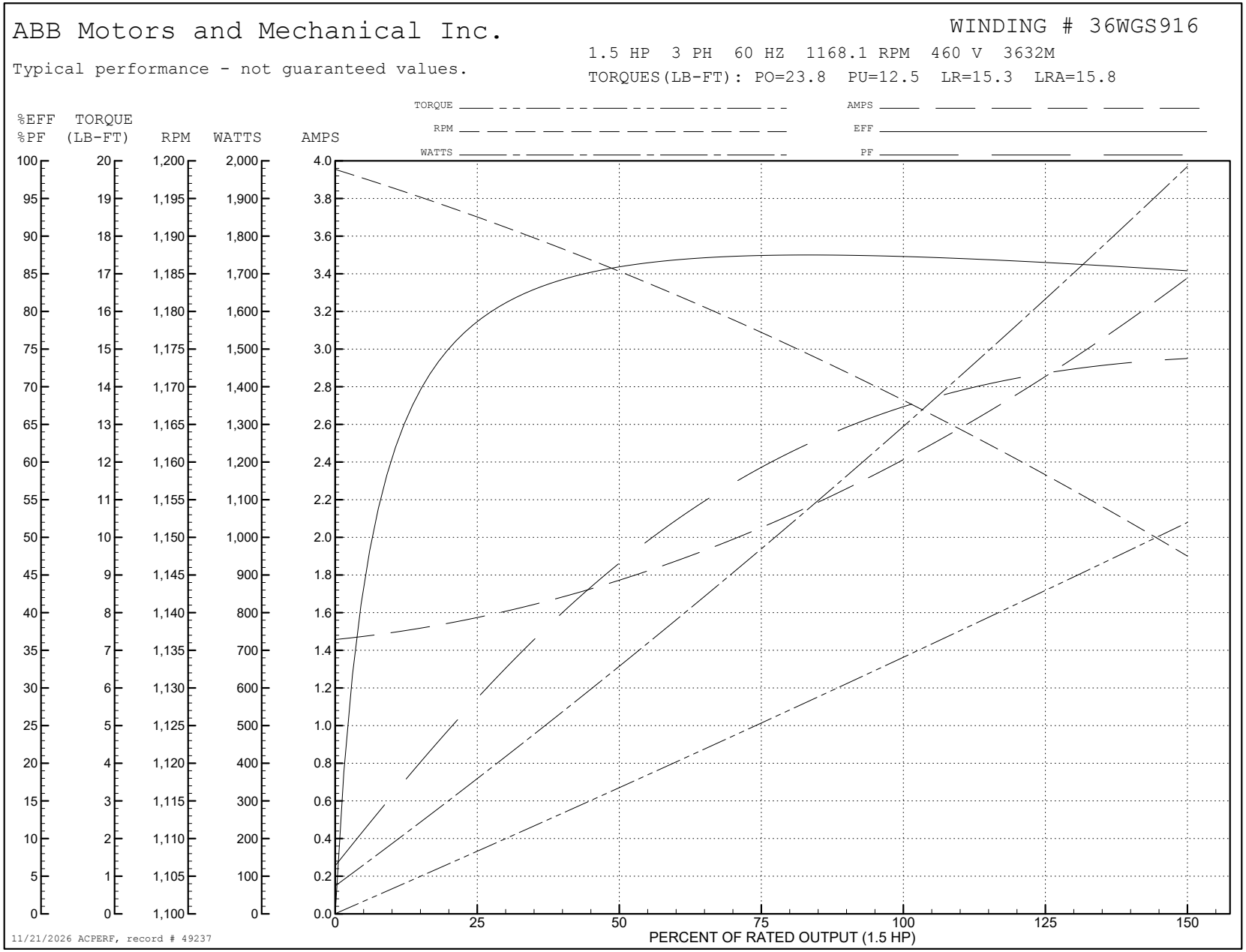
AC Induction Motor Performance Data
Record # 49237
Typical performance - not guaranteed values

Winding: 36WGS916-R001	**Type:** 3632M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5//1	**Full Load Torque**	6.864 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			4.8/2.4//4.2/2.1	**Breakdown Torque**	23.8 LB-FT
R.P.M.			1165//970	**Pull-up Torque**	12.5 LB-FT
Hz	60//50	**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	**No-load Current**	1.47 A
NEMA Nom. Eff.	87.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	7.3716 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	30	48	59	67	71	74
Efficiency	79.1	86	87.5	87.5	86.5	85.2
Speed	1192.2	1184.8	1176.8	1168.1	1158.2	1147.5
Line amperes	1.57	1.77	2.07	2.43	2.88	3.36


ABB Motors and Mechanical Inc.
WINDING # 36WGS916
Typical performance - not guaranteed values.
1.5 HP 3 PH 60 HZ 1168.1 RPM 460 V 3632M
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)
11/21/2026 ACPERF, record # 49237

AC Induction Motor Performance Data
Record # 80499
Typical performance - not guaranteed values

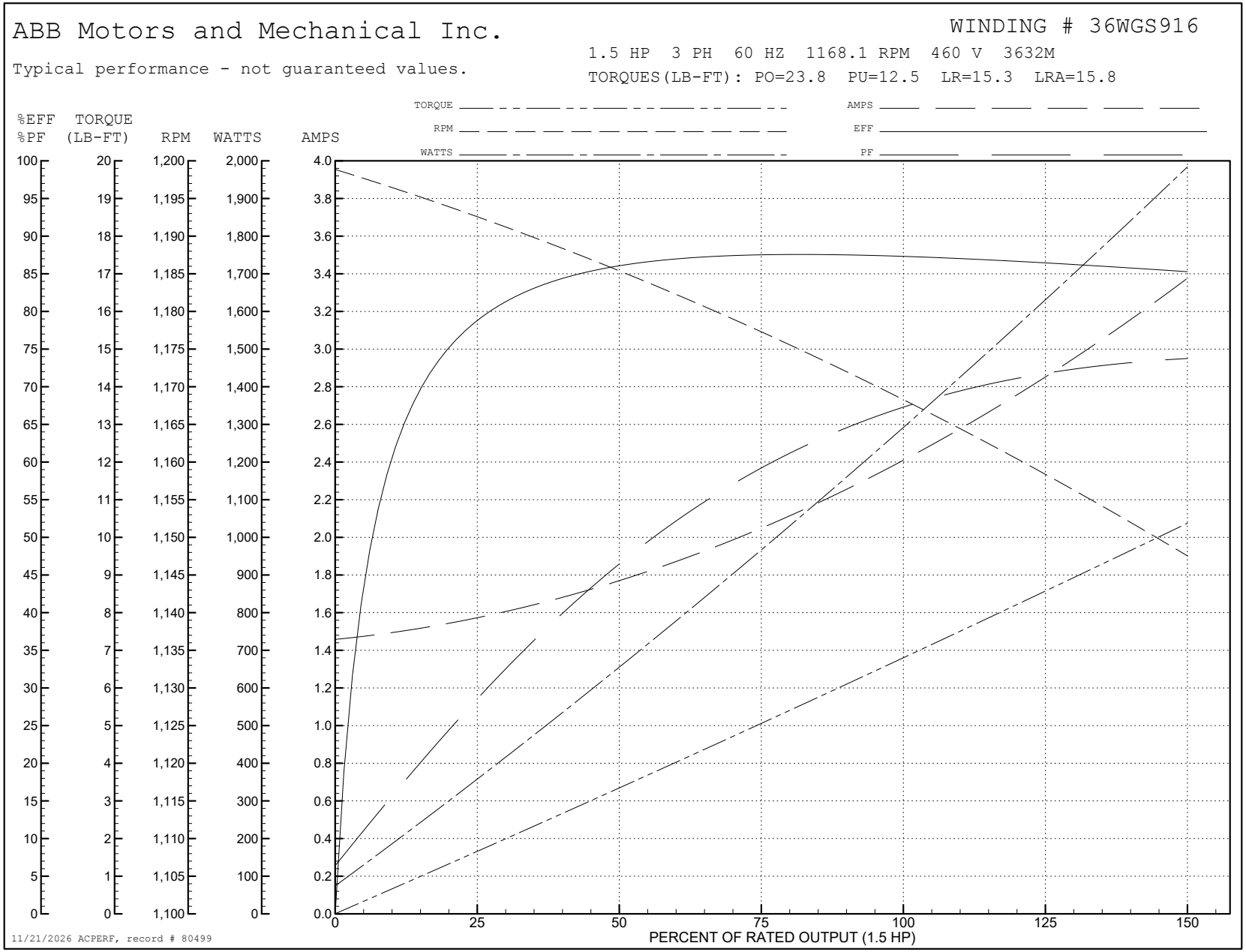
Winding: 36WGS916-R001	**Type:** 3632M	**Enclosure:** XPFC

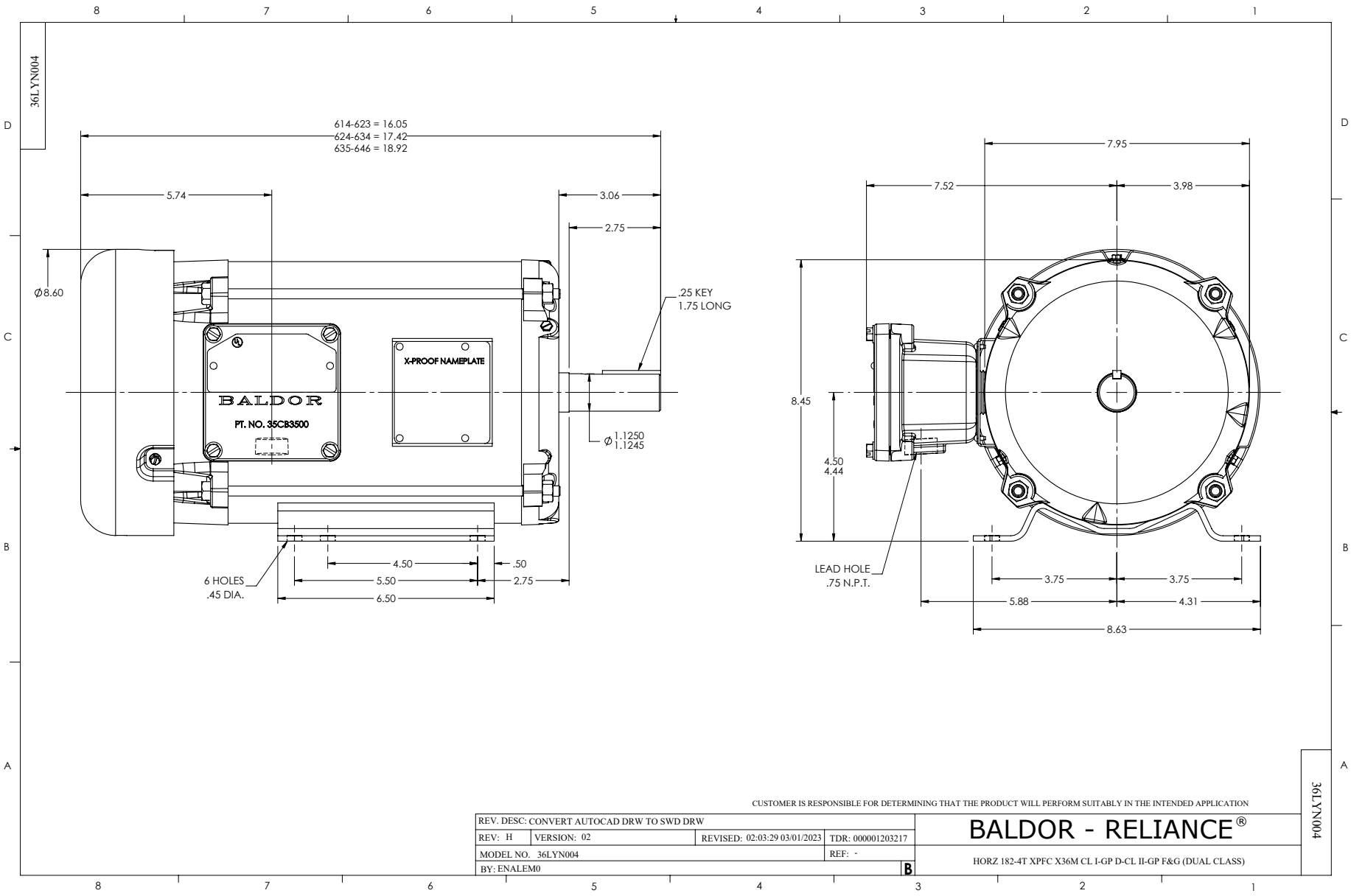
Nameplate Data			
Rated Output (HP)			1.5//1
Volts			230/460//190/380
Full Load Amps			4.8/2.4//4.2/2.1
R.P.M.			1165//970
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	87.5	**Power Factor**	67
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	6.867 LB-FT
Start Configuration	direct on line
Breakdown Torque	23.8 LB-FT
Pull-up Torque	12.5 LB-FT
Locked-rotor Torque	15.3 LB-FT
Starting Current	15.8 A
No-load Current	1.47 A
Line-line Res. @ 25ºC	7.3716 Ω
Temp. Rise @ Rated Load	34°C
Locked-rotor Power Factor	30.1

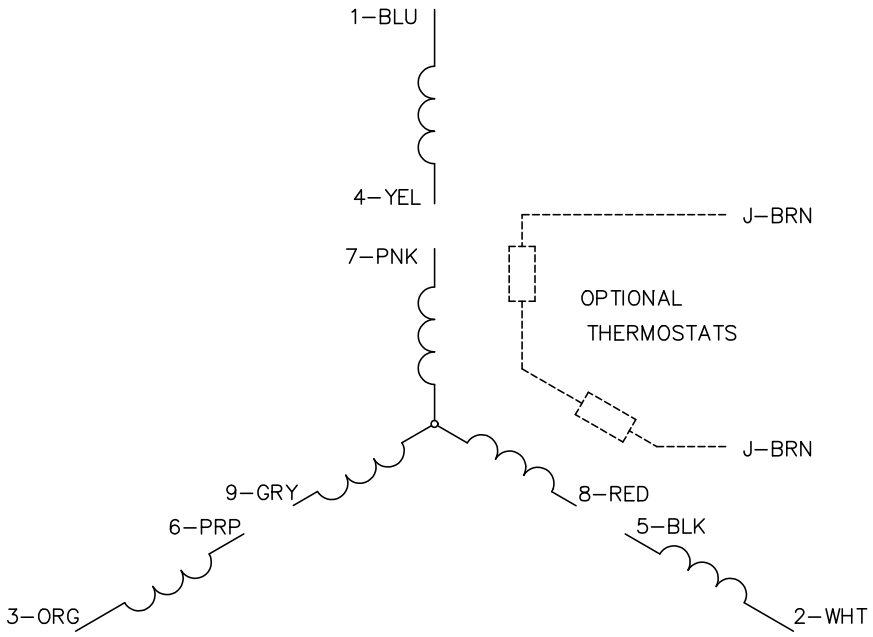
Load Characteristics 460 V, 60 Hz, 1.5 HP

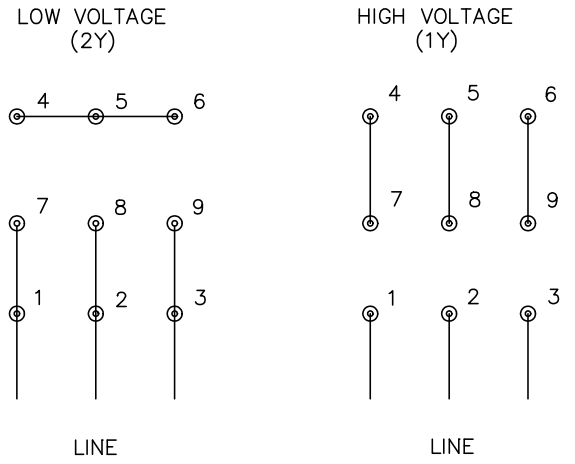
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
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ABB Motors and Mechanical Inc.
WINDING # 36WGS916
Typical performance - not guaranteed values.
1.5 HP 3 PH 60 HZ 1168.1 RPM 460 V 3632M
TORQUES(LB-FT): PO=23.8 PU=12.5 LR=15.3 LRA=15.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/21/2026 ACPERF, record # 80499


36LYN004
614-623 = 16.05
624-634 = 17.42
635-646 = 18.92
5.74
3.06
2.75
Ø8.60
.25 KEY
1.75 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø 1.1250
1.1245
4.50
.50
5.50
2.75
6.50
6 HOLES
.45 DIA.
7.95
7.52
3.98
8.45
4.50
4.44
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.88
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: H
VERSION: 02
REVISED: 02:03:29 03/01/2023
TDR: 000001203217
MODEL NO. 36LYN004
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4T XPFC X36M CL I-GP D-CL II-GP F&G (DUAL CLASS)
36LYN004

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