ABB BALDOR RELIANCE

Customer information packet

EM7172T

5//3HP, 3480//2900RPM, 3PH, 60//50HZ, 184T, 0
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184T
Frame Material	Iron
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 @ 50 HZ
	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	9.000 A @ 190.0 V
	5.800 A @ 460.0 V
	4.500 A @ 380.0 V
	12.400 A @ 208.0 V
	11.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	J
Type	AC
Mech. spec.	06J001
Base	
Status	PRD/A
Elec. spec.	06WGX782
Layout	06LYJ001
Eff. date	02-15-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-07-2015

Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	4.5 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard 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	X0628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.56 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-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
	3480 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.	06J001X782G1						
CAT.NO.	EM7172T						
HP	5//3	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	11.6/5.8//9/4.5						
RPM	3480//2900						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	A	**CODE**	L		
RATING	40C AMB-CONT						
FRAME	184T	**NEMA-NOM-EFF**	88.5				
		PF	90				
BLANK							

AC Induction Motor Performance Data
Record # 50651
Typical performance - not guaranteed values

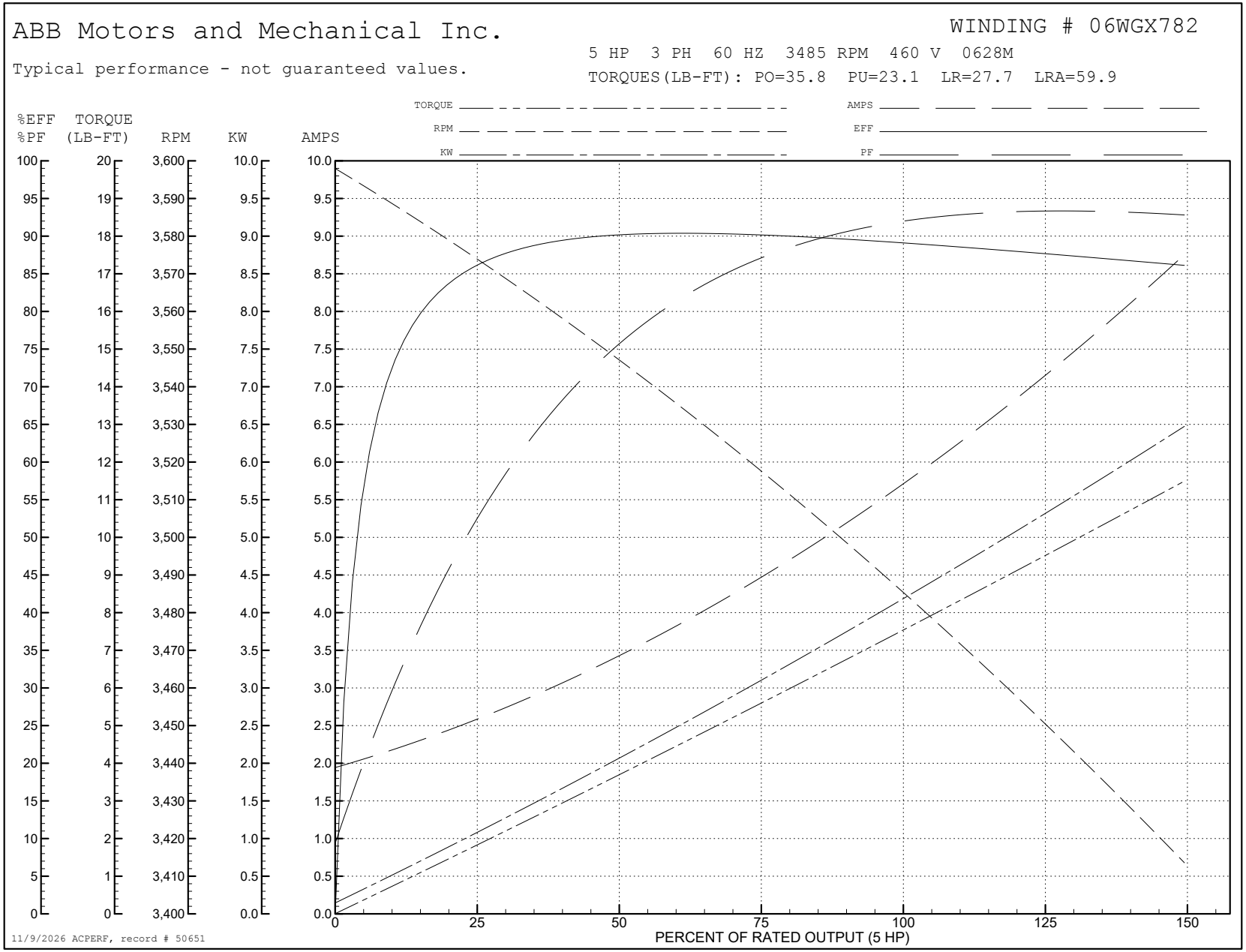
Winding: 06WGX782-R002	**Type:** 0628M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			11.6/5.8//9/4.5
R.P.M.			3480//2900
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	88.5	**Power Factor**	90
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	7.55 LB-FT
Start Configuration	direct on line
Breakdown Torque	35.8 LB-FT
Pull-up Torque	23.1 LB-FT
Locked-rotor Torque	27.7 LB-FT
Starting Current	59.9 A
No-load Current	2.05 A
Line-line Res. @ 25ºC	2.79 Ω
Temp. Rise @ Rated Load	57°C
Locked-rotor Power Factor	50.9
Rotor inertia	0.125 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	56	77	86	91	93	94
Efficiency	85.6	89.8	90.2	89.3	87.9	86
Speed	3574	3547	3517	3485	3452	3413
Line amperes	2.45	3.35	4.53	5.8	7.17	8.69


ABB Motors and Mechanical Inc.
WINDING # 06WGX782
5 HP 3 PH 60 HZ 3485 RPM 460 V 0628M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=35.8 PU=23.1 LR=27.7 LRA=59.9
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/9/2026 ACPERF, record # 50651

AC Induction Motor Performance Data
Record # 50652
Typical performance - not guaranteed values

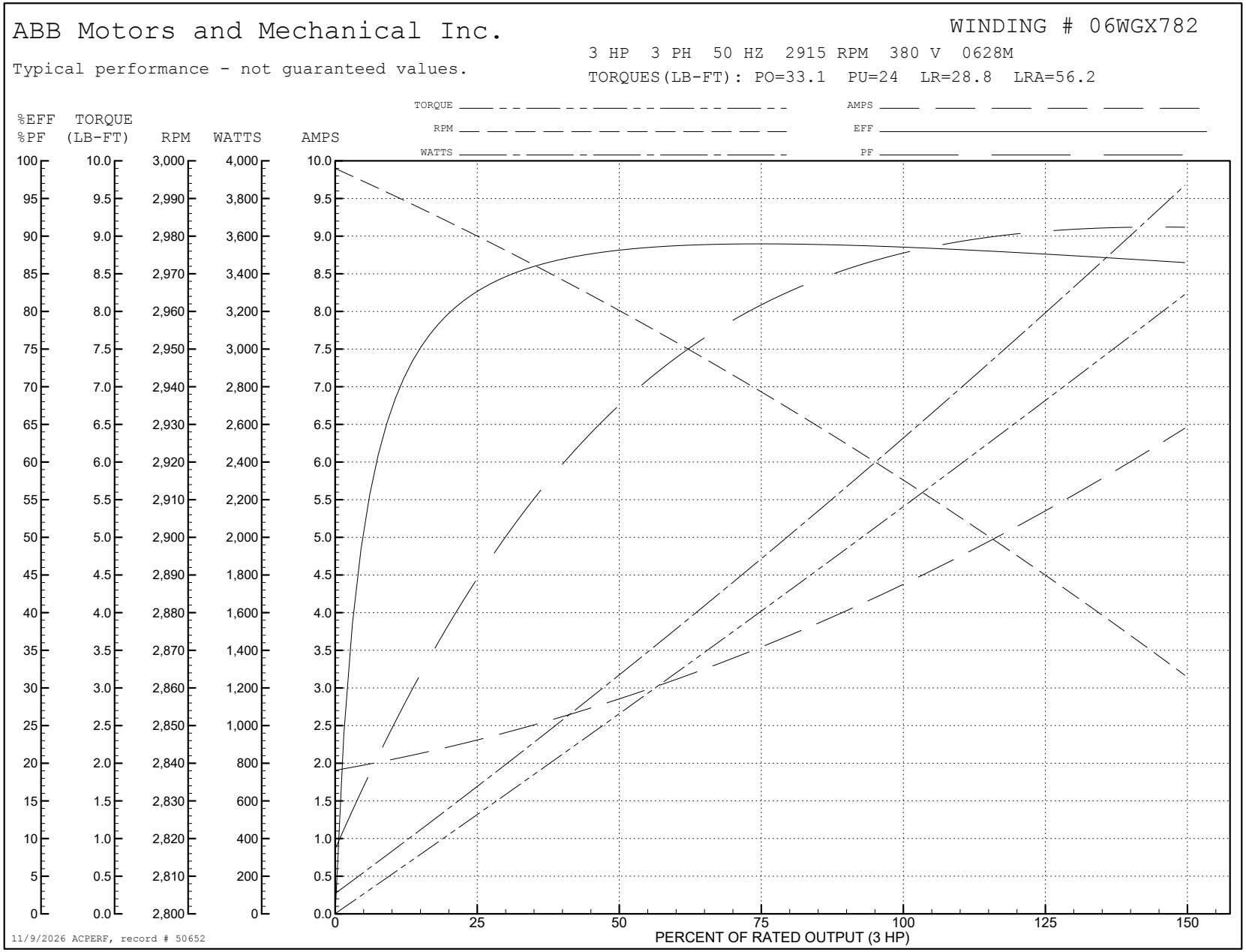
Winding: 06WGX782-R002	**Type:** 0628M	**Enclosure:** XPFC

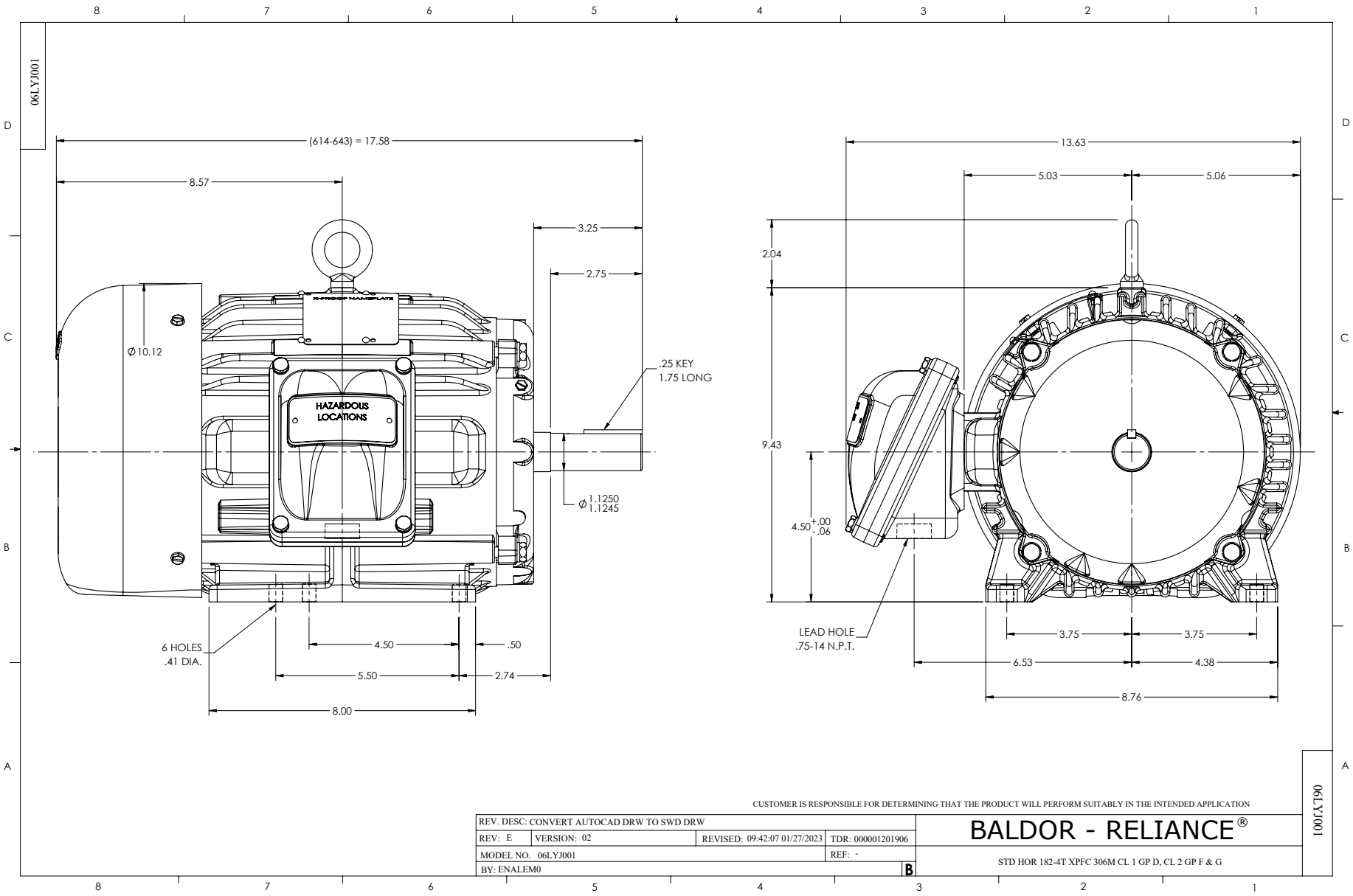
Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			11.6/5.8//9/4.5
R.P.M.			3480//2900
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	88.5	**Power Factor**	90
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	5.42 LB-FT
Start Configuration	direct on line
Breakdown Torque	33.1 LB-FT
Pull-up Torque	24 LB-FT
Locked-rotor Torque	28.8 LB-FT
Starting Current	56.2 A
No-load Current	1.98 A
Line-line Res. @ 25ºC	2.79 Ω
Temp. Rise @ Rated Load	38°C
Locked-rotor Power Factor	57.4
Rotor inertia	0.125 LB-FT2

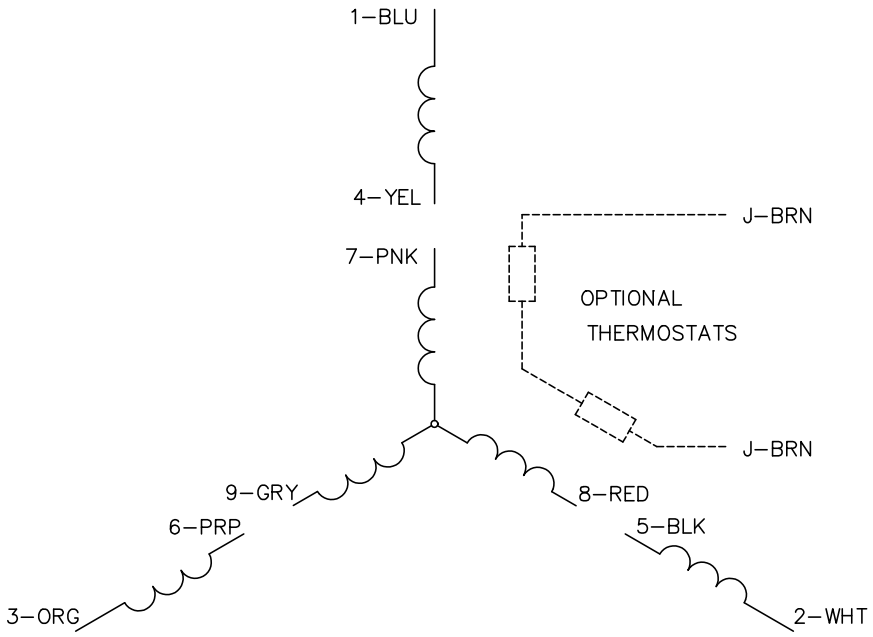
Load Characteristics 380 V, 50 Hz, 3 HP

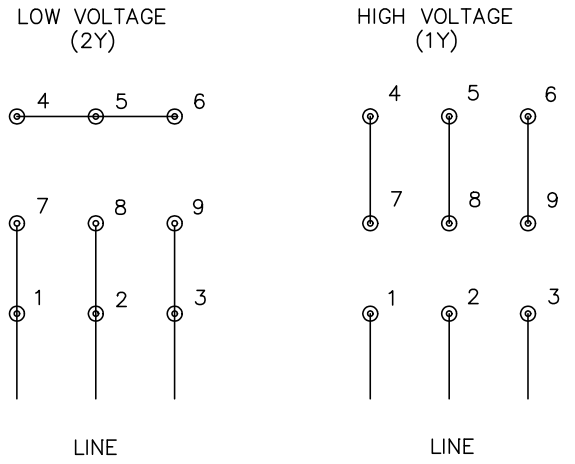
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	47	69	80	87	90	92
Efficiency	82	87.8	89	88.8	87.8	86.4
Speed	2980	2960	2938	2915	2891	2863
Line amperes	2.22	2.8	3.59	4.44	5.37	6.4


ABB Motors and Mechanical Inc.
WINDING # 06WGX782
3 HP 3 PH 50 HZ 2915 RPM 380 V 0628M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=33.1 PU=24 LR=28.8 LRA=56.2
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/9/2026 ACPERF, record # 50652


06LYJ001
(614-643) = 17.58
8.57
3.25
2.75
Ø10.12
.25 KEY
1.75 LONG
HAZARDOUS LOCATIONS
Ø 1.1250
1.1245
6 HOLES
.41 DIA.
4.50
.50
5.50
2.74
8.00
13.63
5.03
5.06
2.04
9.43
4.50 +.00 -.06
LEAD HOLE
.75-14 N.P.T.
3.75
3.75
6.53
4.38
8.76
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: E
VERSION: 02
REVISED: 09:42:07 01/27/2023
TDR: 000001201906
MODEL NO. 06LYJ001
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HOR 182-4T XPFC 306M CL 1 GP D, CL 2 GP F & G
06LYJ001

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