ABB BALDOR RELIANCE

Customer information packet

EM7120T

1//1.5HP, 975//1170RPM, 3PH, 50//60HZ, 182T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182T
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	1.000 HP @ 50 HZ
	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 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	5.000 A @ 230.0 V
	4.400 A @ 190.0 V
	2.500 A @ 460.0 V
	2.200 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %

Part Detail

Revision	Q
Type	AC
Mech. spec.	06J001
Base	
Status	PRD/A
Elec. spec.	06WGW969
Layout	06LYJ001
Eff. date	03-05-2026
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	10-17-2011

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	2.2 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K
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	X0630M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.56 IN
Power Factor	65
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	1170 rpm 975 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

NP1426XPSL							
NO.		**CC**	010A				
SER.							
SPEC.	06J001W969G1						
CAT.NO.	EM7120T						
HP	1.5//1	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	5/2.5//4.4/2.2						
RPM	1170//975						
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	65					
BLANK							

AC Induction Motor Performance Data
Record # 50509
Typical performance - not guaranteed values

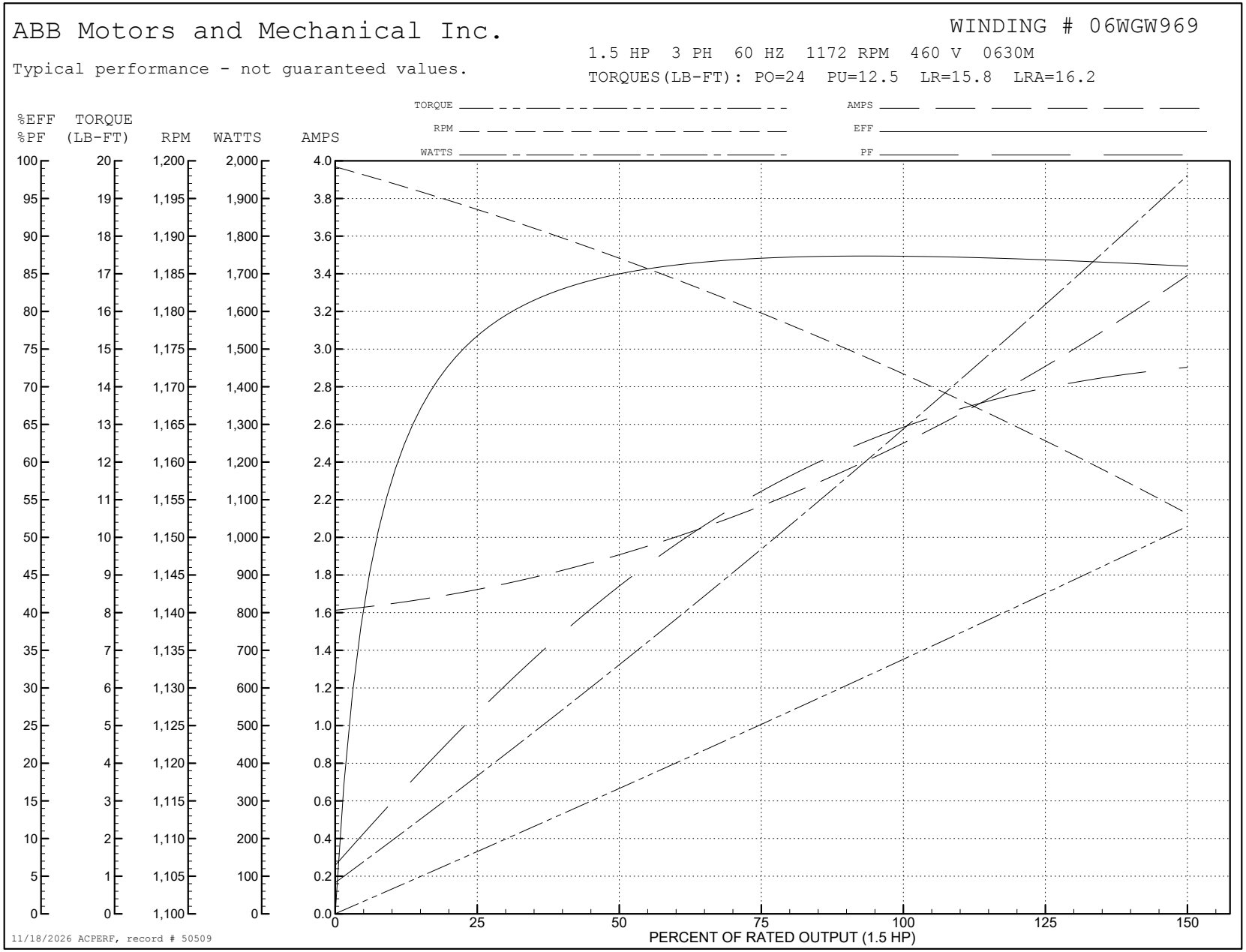
Winding: 06WGW969-R013	**Type:** 0630M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			1.5//1
Volts			230/460//190/380
Full Load Amps			5/2.5//4.4/2.2
R.P.M.			1170//975
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	87.5	**Power Factor**	65
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	6.77 LB-FT
Start Configuration	direct on line
Breakdown Torque	24 LB-FT
Pull-up Torque	12.5 LB-FT
Locked-rotor Torque	15.8 LB-FT
Starting Current	16.2 A
No-load Current	1.63 A
Line-line Res. @ 25ºC	7.01 Ω
Temp. Rise @ Rated Load	26°C
Locked-rotor Power Factor	30.4
Rotor inertia	0.282 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	27	44	56	64	69	73
Efficiency	76.3	84.8	86.9	87.6	87.1	85.9
Speed	1194	1187	1179	1172	1163	1153
Line amperes	1.7	1.9	2.18	2.51	2.92	3.38


ABB Motors and Mechanical Inc.
WINDING # 06WGW969
1.5 HP 3 PH 60 HZ 1172 RPM 460 V 0630M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=24 PU=12.5 LR=15.8 LRA=16.2
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/18/2026 ACPERF, record # 50509

AC Induction Motor Performance Data
Record # 50510
Typical performance - not guaranteed values

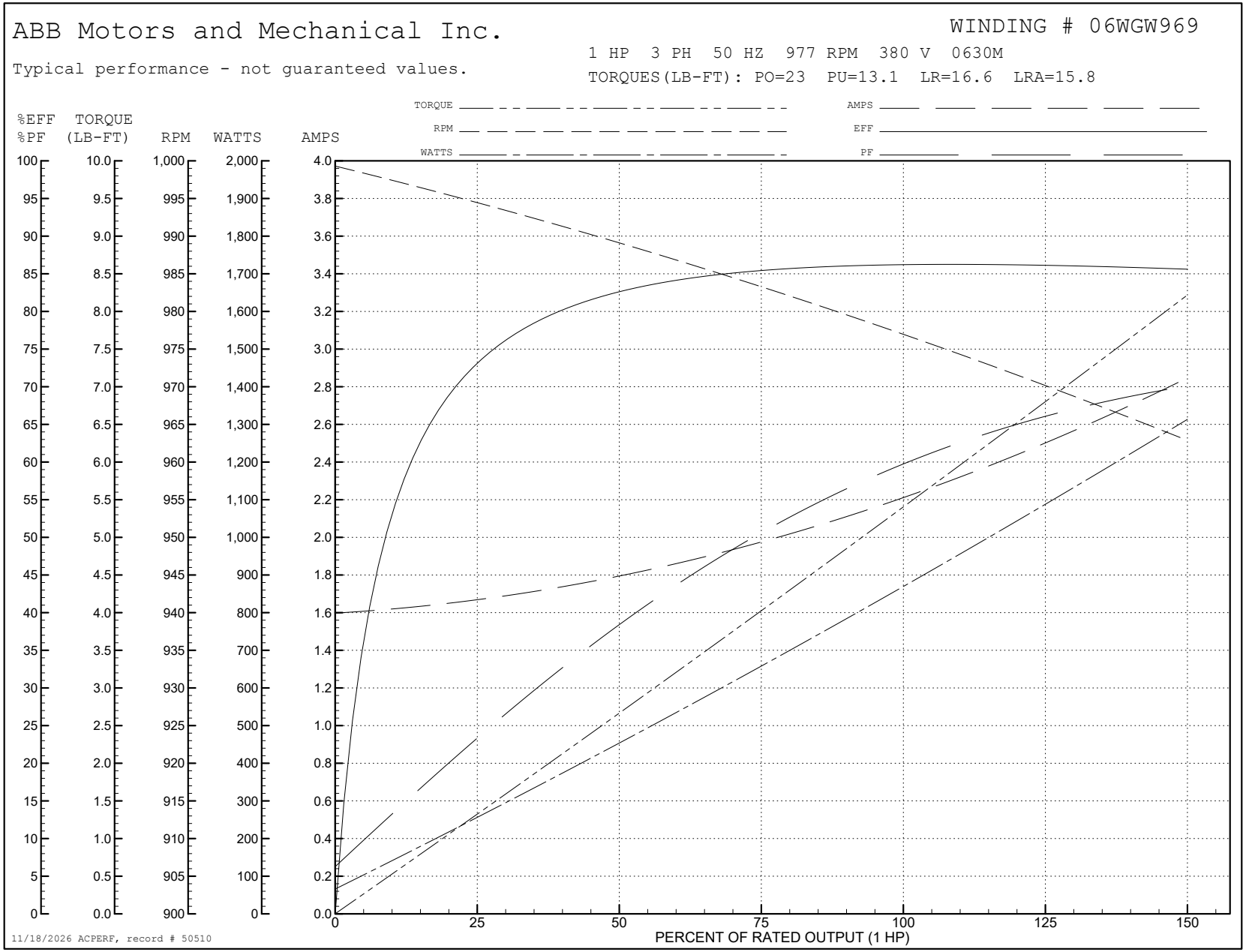
Winding: 06WGW969-R013	**Type:** 0630M	**Enclosure:** XPFC

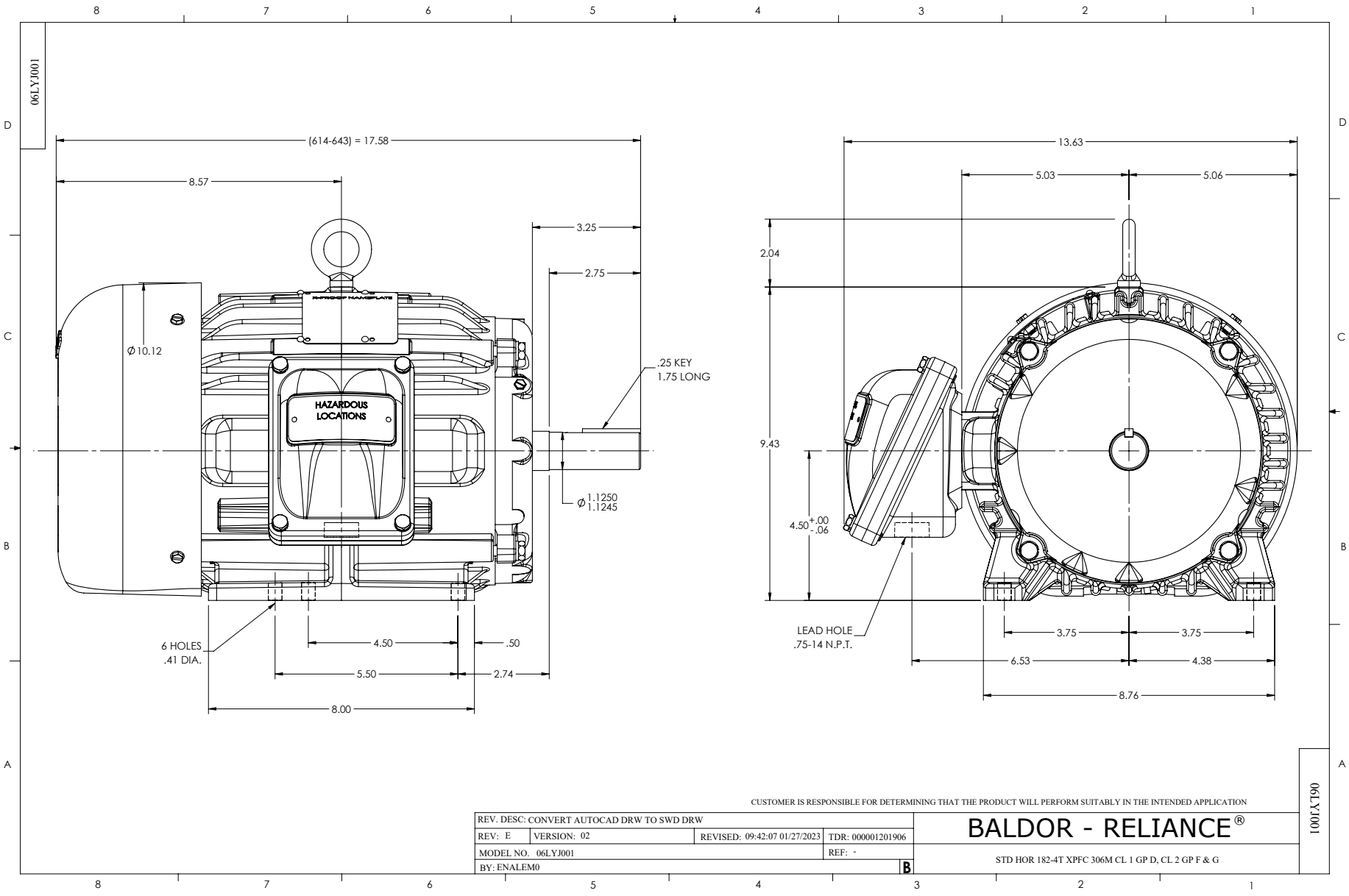
Nameplate Data			
Rated Output (HP)			1.5//1
Volts			230/460//190/380
Full Load Amps			5/2.5//4.4/2.2
R.P.M.			1170//975
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	87.5	**Power Factor**	65
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	5.41 LB-FT
Start Configuration	direct on line
Breakdown Torque	23 LB-FT
Pull-up Torque	13.1 LB-FT
Locked-rotor Torque	16.6 LB-FT
Starting Current	15.8 A
No-load Current	1.61 A
Line-line Res. @ 25ºC	7.01 Ω
Temp. Rise @ Rated Load	21°C
Locked-rotor Power Factor	34.4
Rotor inertia	0.282 LB-FT2

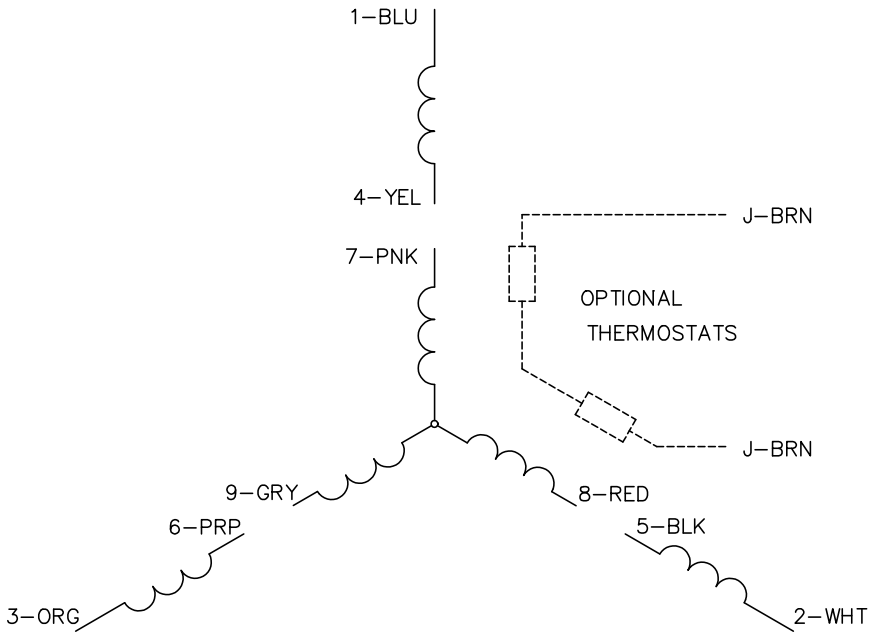
Load Characteristics 380 V, 50 Hz, 1 HP

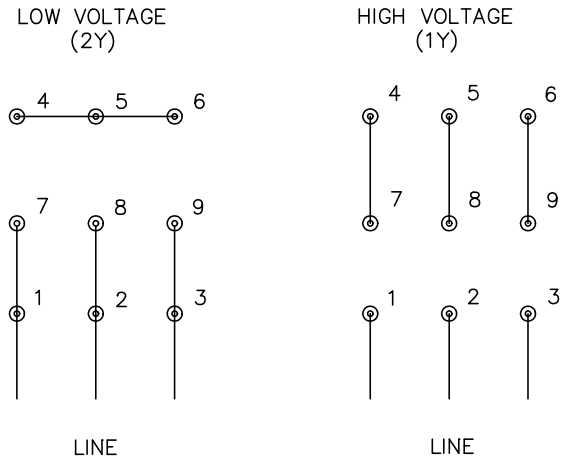
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	24	39	50	60	66	70
Efficiency	72.6	82.4	85.3	86.5	86.4	85.5
Speed	995	989	983	977	970	963
Line amperes	1.65	1.79	1.99	2.21	2.51	2.84


ABB Motors and Mechanical Inc.
WINDING # 06WGW969
1 HP 3 PH 50 HZ 977 RPM 380 V 0630M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=23 PU=13.1 LR=16.6 LRA=15.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/18/2026 ACPERF, record # 50510


06LYJ001
(614-643) = 17.58
8.57
3.25
2.75
Ø10.12
.25 KEY
1.75 LONG
HAZARDOUS LOCATIONS
Ø1.1250
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