ABB BALDOR RELIANCE

Customer information packet

EM7144T-C

5//3HP, 1750//1450RPM, 3PH, 60//50HZ, 184T, 0
Class - CLI GP C,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 C,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	1800 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
	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	5.200 A @ 380.0 V
	6.600 A @ 460.0 V
	14.000 A @ 208.0 V
	13.200 A @ 230.0 V
	10.400 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	N
Type	AC
Mech. spec.	06H297
Base	
Status	INA/A
Elec. spec.	06WGX182
Layout	06LYH297
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	08-04-2010

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
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
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	X0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.56 IN
Power Factor	79
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	1450 rpm
	1750 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

NP1482XPSL					
NO.		**CC**	010A		
SER.					
SPEC.	06H297X182G1				
CAT.NO.					
HP	5//3	**T. CODE**	T4		
VOLTS	230/460//190/380				
AMPS	13.2/6.6//10.4/5.2				
RPM	1750//1450				
HZ	60//50	**PH**	3	**CL**	B
SER.F.	1.00	**DES**	B	**CODE**	J
RATING	40C AMB-CONT				
FRAME	184T	**NEMA-NOM-EFF**	89.5		
PF	79				
BLANK					

AC Induction Motor Performance Data
Record # 35542
Typical performance - not guaranteed values

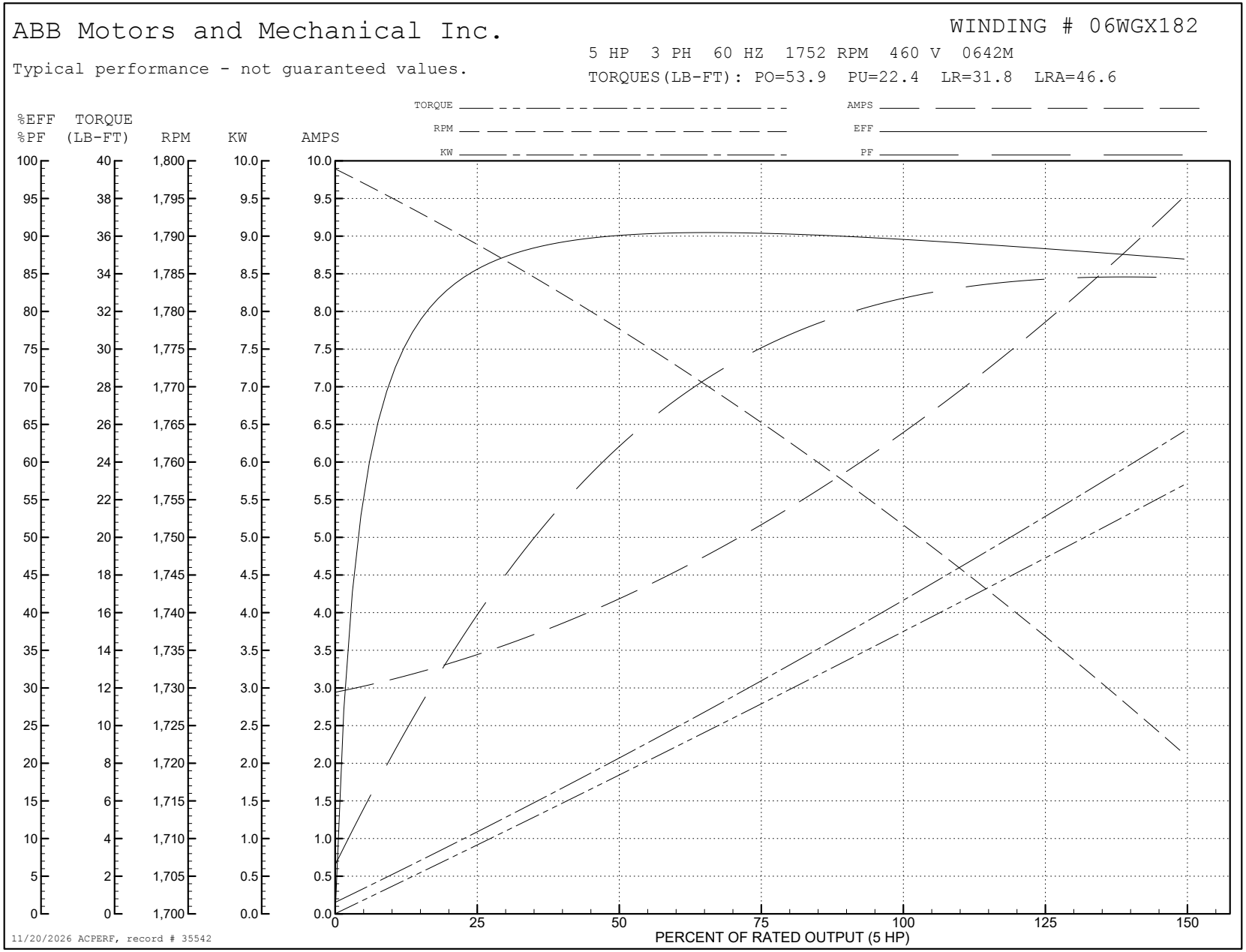
Winding: 06WGX182-R002	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			13.2/6//10.4/5.2
R.P.M.			1750//1450
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	79
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	15 LB-FT
Start Configuration	direct on line
Breakdown Torque	53.9 LB-FT
Pull-up Torque	22.4 LB-FT
Locked-rotor Torque	31.8 LB-FT
Starting Current	46.6 A
No-load Current	3.02 A
Line-line Res. @ 25ºC	2.63 Ω
Temp. Rise @ Rated Load	53°C
Temp. Rise @ S.F. Load	65°C
Locked-rotor Power Factor	40.5
Rotor inertia	0.391 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	63	75	81	84	85
Efficiency	85.2	89.8	90.4	89.8	88.4	86.9
Speed	1789	1777	1765	1752	1737	1721
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47


ABB Motors and Mechanical Inc.
WINDING # 06WGX182
5 HP 3 PH 60 HZ 1752 RPM 460 V 0642M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/20/2026 ACPERF, record # 35542

AC Induction Motor Performance Data
Record # 50085
Typical performance - not guaranteed values

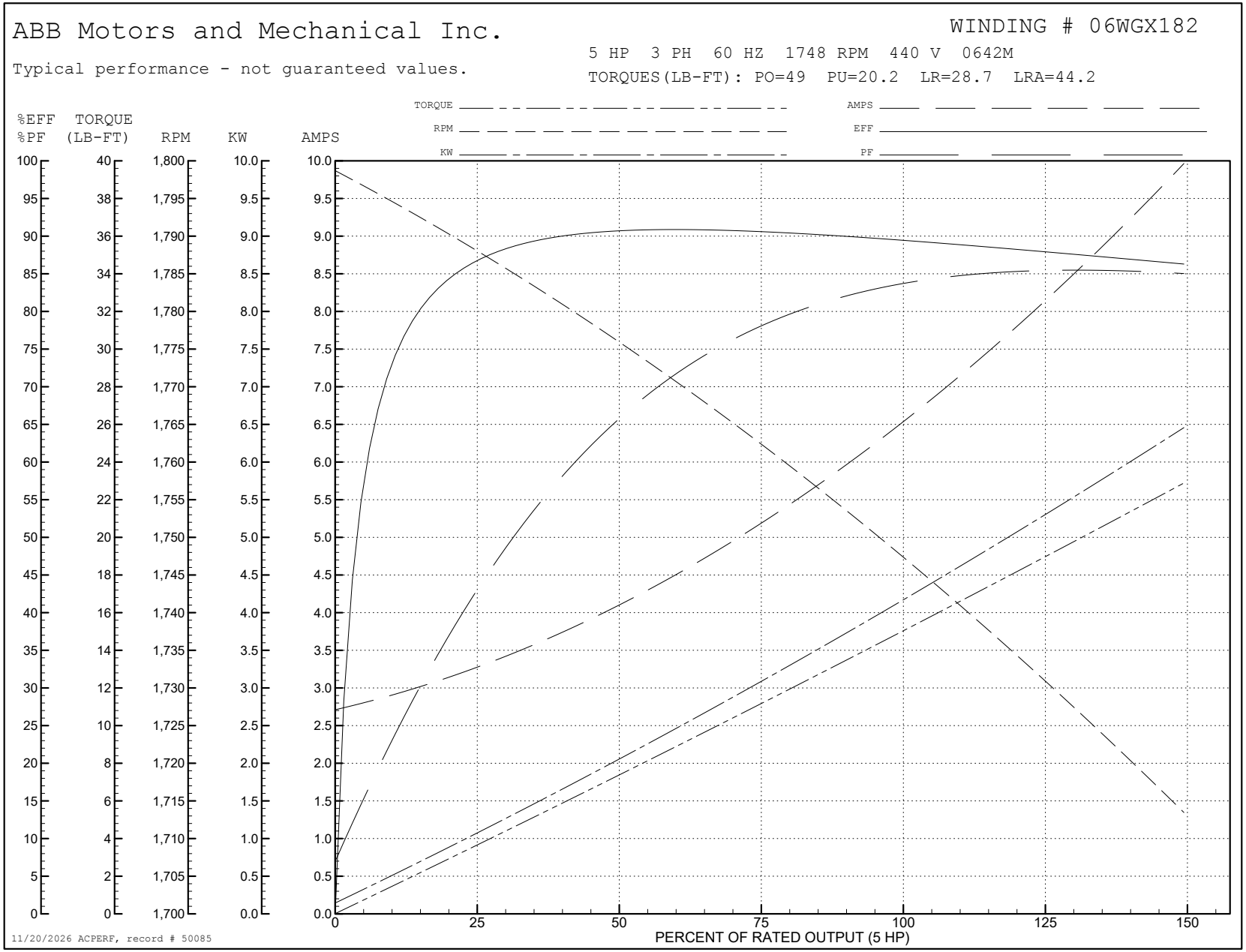
Winding: 06WGX182-R002	**Type:** 0642M	**Enclosure:** XPFC

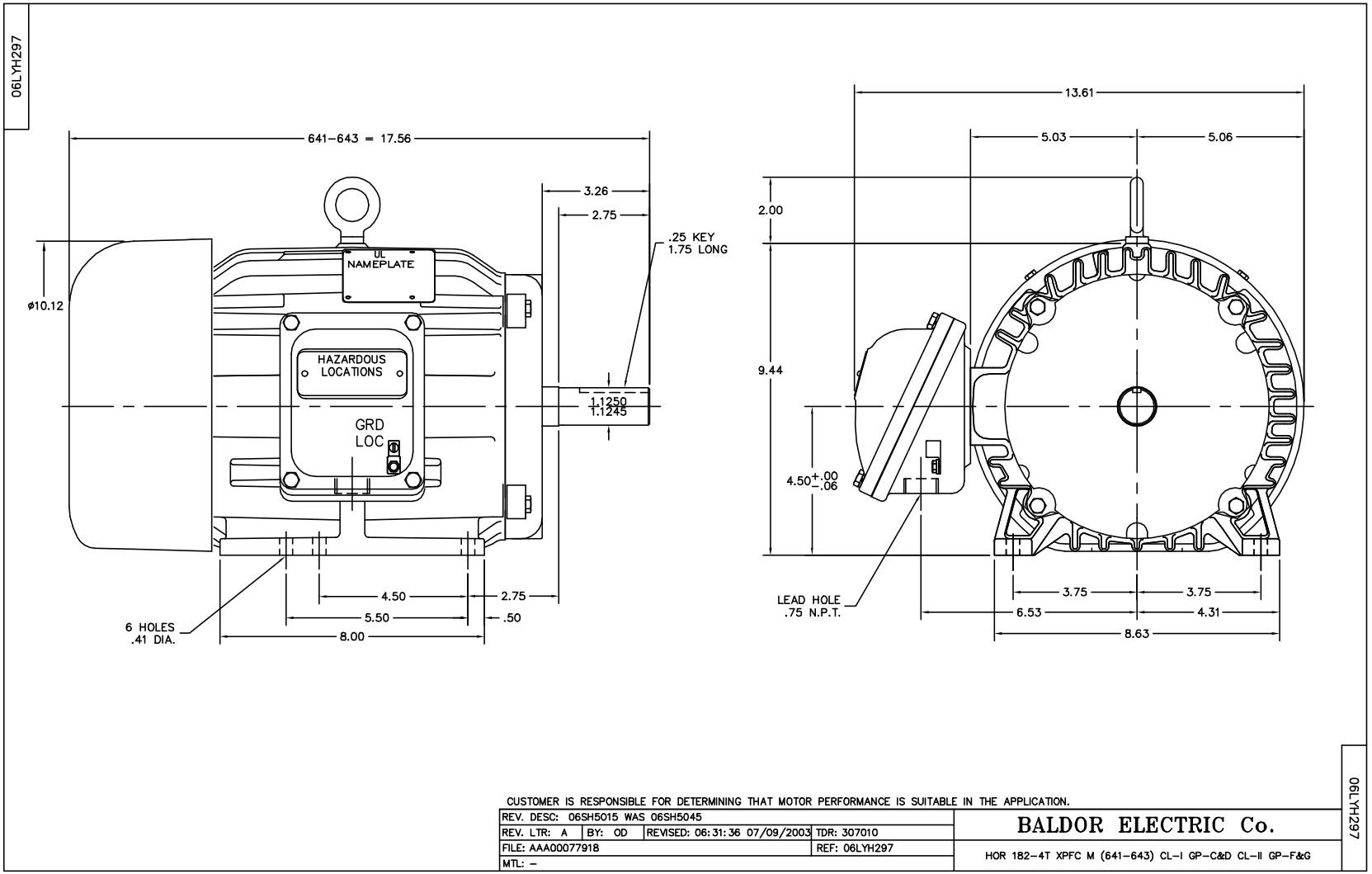
Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			13.2/6.6//10.4/5.2
R.P.M.			1750//1450
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	79
Rating - Duty			40C AMB-CONT
S.F. Amps			

440 V, 60 Hz: High Voltage Connection	
Full Load Torque	15.1 LB-FT
Start Configuration	direct on line
Breakdown Torque	49 LB-FT
Pull-up Torque	20.2 LB-FT
Locked-rotor Torque	28.7 LB-FT
Starting Current	44.2 A
No-load Current	2.79 A
Line-line Res. @ 25ºC	2.63 Ω
Temp. Rise @ Rated Load	54°C
Temp. Rise @ S.F. Load	68°C
Locked-rotor Power Factor	40.2
Rotor inertia	0.391 LB-FT2

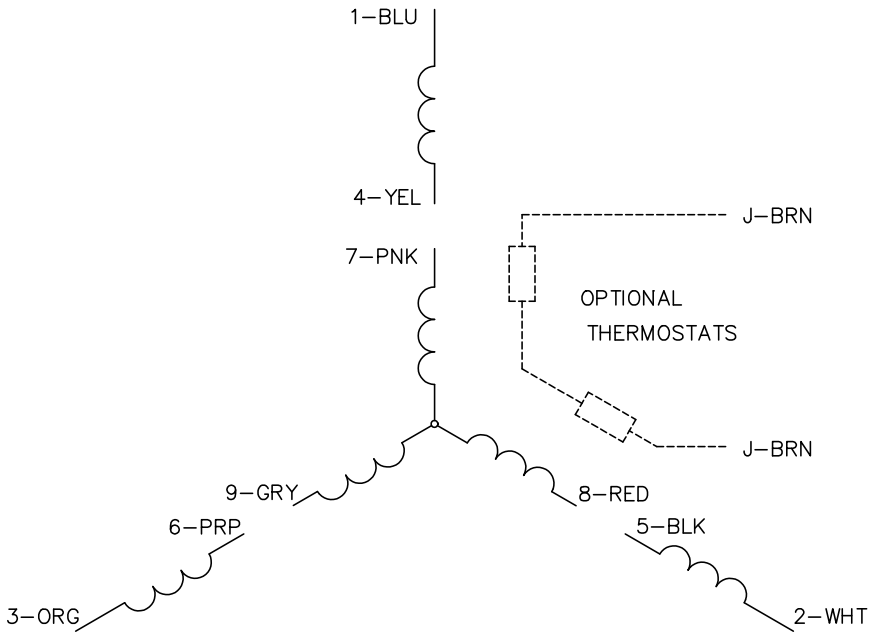
Load Characteristics 440 V, 60 Hz, 5 HP

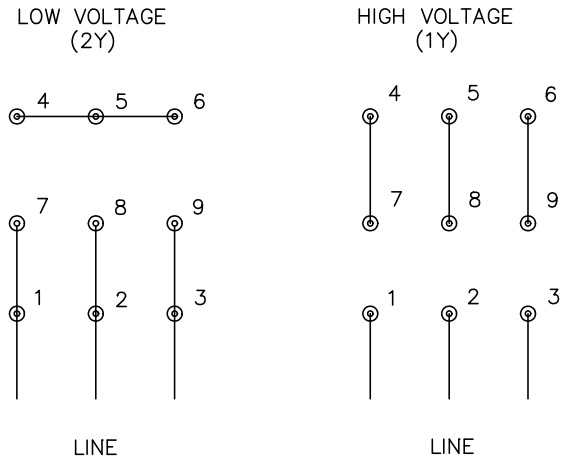
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	67	78	83	85	86
Efficiency	86	90.2	90.3	89.9	88.2	86.1
Speed	1788	1775	1762	1748	1731	1713
Line amperes	3.17	4.06	5.25	6.61	8.19	9.92


ABB Motors and Mechanical Inc.
WINDING # 06WGX182
5 HP 3 PH 60 HZ 1748 RPM 440 V 0642M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=49 PU=20.2 LR=28.7 LRA=44.2
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/20/2026 ACPERF, record # 50085


06LYH297
641–643 = 17.56
3.26
2.75
.25 KEY
1.75 LONG
UL
NAMEPLATE
ø10.12
HAZARDOUS
LOCATIONS
GRD
LOC
1.1250
1.1245
4.50
2.75
5.50
.50
8.00
6 HOLES
.41 DIA.
13.61
5.03
5.06
2.00
9.44
4.50 +.00 -.06
LEAD HOLE
.75 N.P.T.
3.75
3.75
6.53
4.31
8.63
06LYH297
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
REV. DESC: 06SH5015 WAS 06SH5045
REV. LTR: A
BY: OD
REVISED: 06:31:36 07/09/2003
TDR: 307010
FILE: AAA00077918
REF: 06LYH297
MTL: –
BALDOR ELECTRIC Co.
HOR 182–4T XPFC M (641–643) CL–I GP–C&D CL–II GP–F&G

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