ABB BALDOR RELIANCE

Customer information packet

CDRX18264T

2HP, 1165//970RPM, 3PH, 60HZ, 184TC, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184TC
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
	1.500 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 EEV
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
Constant Torque Speed Range	6
Current @ Voltage	3.000 A @ 380.0 V
	3.150 A @ 460.0 V
	6.000 A @ 190.0 V
	6.300 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGW970
Layout	06LYH515
Eff. date	03-05-2025
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	05-29-2019

Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.31 IN
Power Factor	68
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1165 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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	06-0000-0134			**INV.TYPE**	PWM						
CAT.NO.	CDRX18264T			**C HP FR**	60	**C HP TO**	90				
HP	2//1.5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	6.3/3.15//6/3			**MAG CUR**	3.6/1.8						
RPM	1165//970			**MX RPM**	1800						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	88.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.8	**WK2**	0.395				
FRAME	184TC	**RATING**	40C AMB-CONT								
	1.15 SF SINEWAVE										
	55C AMB @ 1.0SF				NEMA MG-1 PT 5,IP55						

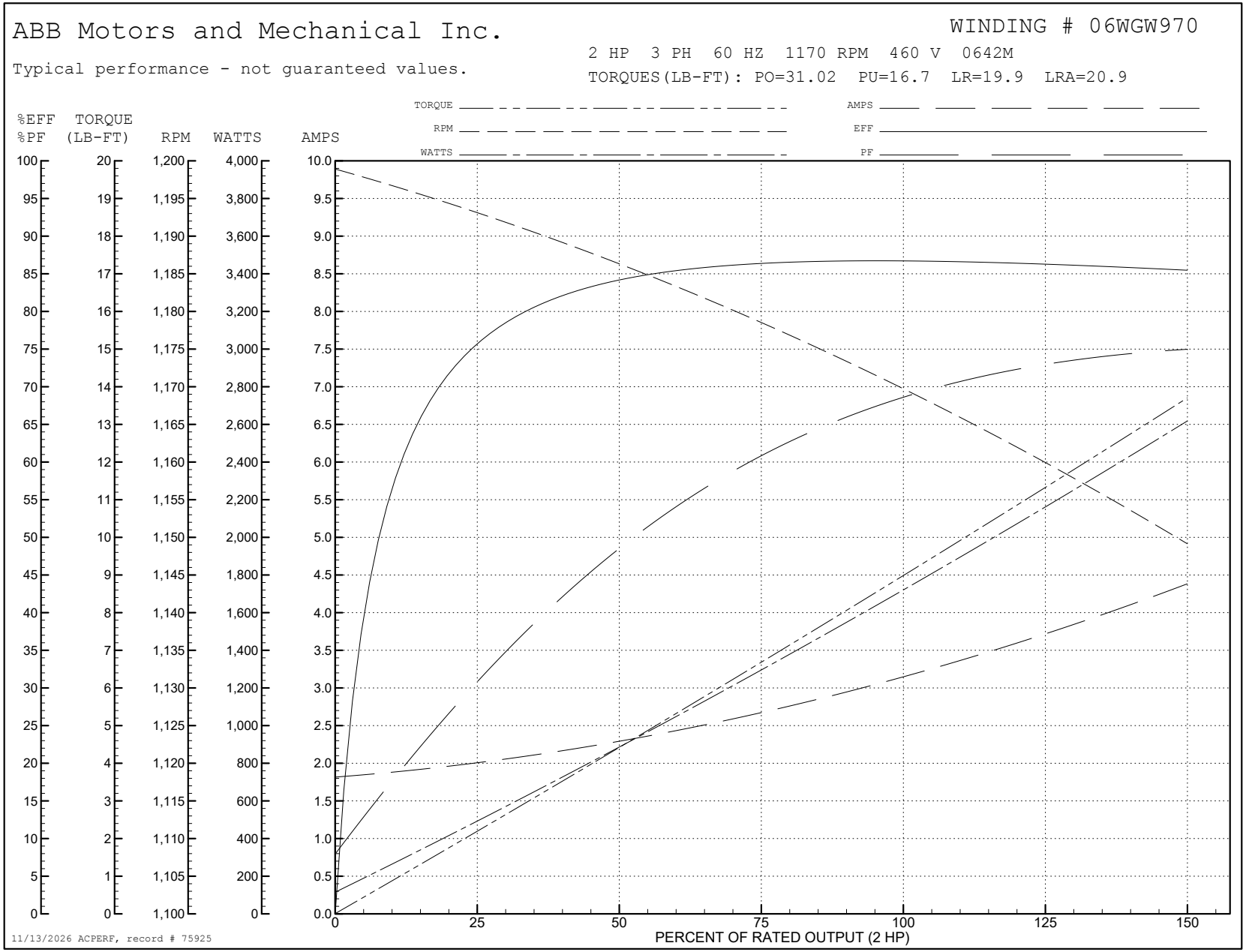
AC Induction Motor Performance Data
Record # 75925
Typical performance - not guaranteed values

Winding: 06WGW970-R007	**Type:** 0642M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2//1.5	**Full Load Torque**	9.06 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			6.3/3.15//6/3	**Breakdown Torque**	31.02 LB-FT
R.P.M.			1165//970	**Pull-up Torque**	16.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	19.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	20.9 A
Service Factor (S.F.)			1	**No-load Current**	1.84 A
NEMA Nom. Eff.	88.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	5.12 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	28°C
S.F. Amps				**Temp. Rise @ S.F. Load**	33°C
				Locked-rotor Power Factor	28.5
				Rotor inertia	0.395 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	32	49	61	68	73	75
Efficiency	75.2	83.8	86.2	87.2	86.2	85.3
Speed	1193	1186	1178	1170	1160	1149
Line amperes	1.98	2.28	2.7	3.18	3.72	4.37


ABB Motors and Mechanical Inc.
WINDING # 06WGW970
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1170 RPM 460 V 0642M
TORQUES(LB-FT): PO=31.02 PU=16.7 LR=19.9 LRA=20.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/13/2026 ACPERF, record # 75925

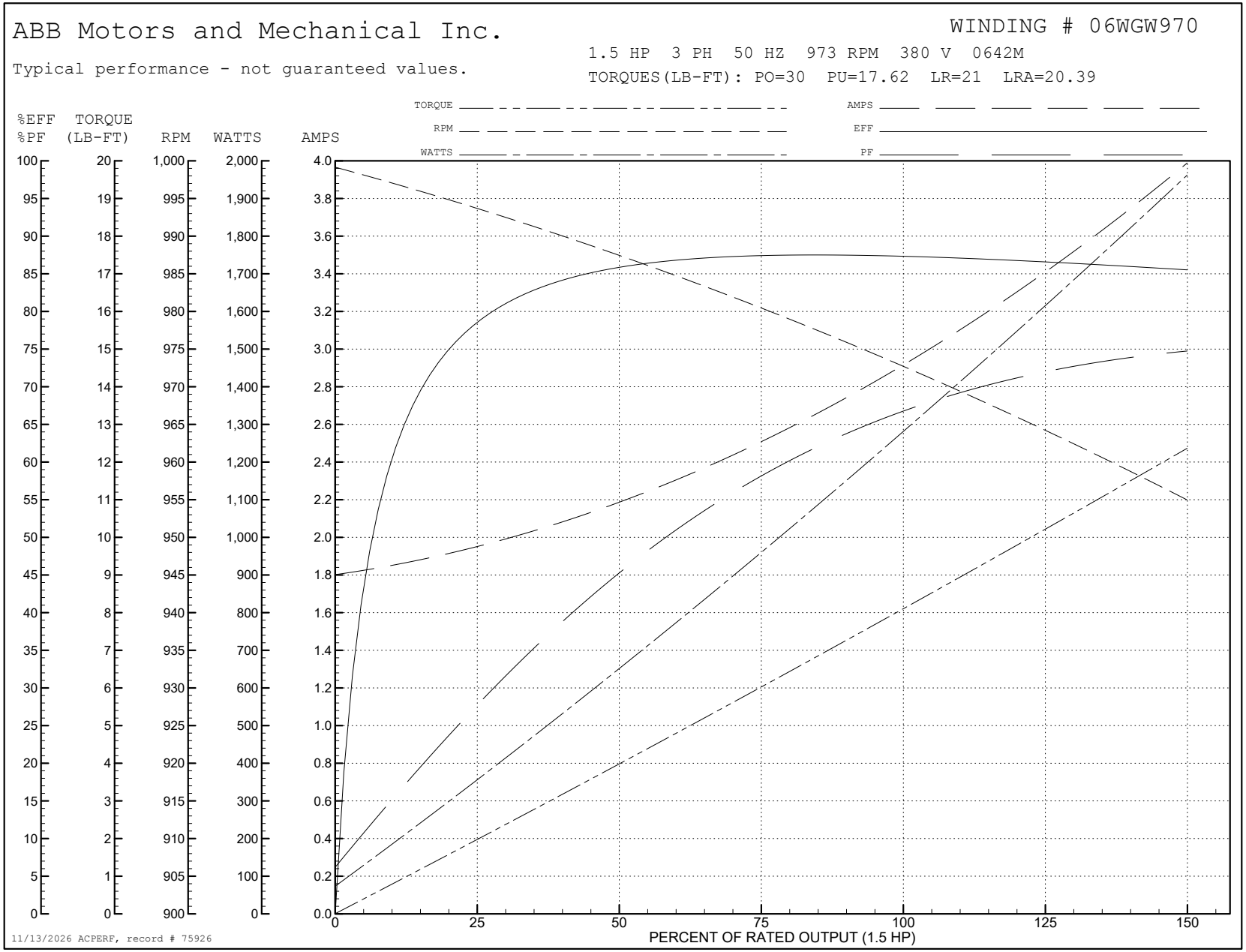
AC Induction Motor Performance Data
Record # 75926
Typical performance - not guaranteed values

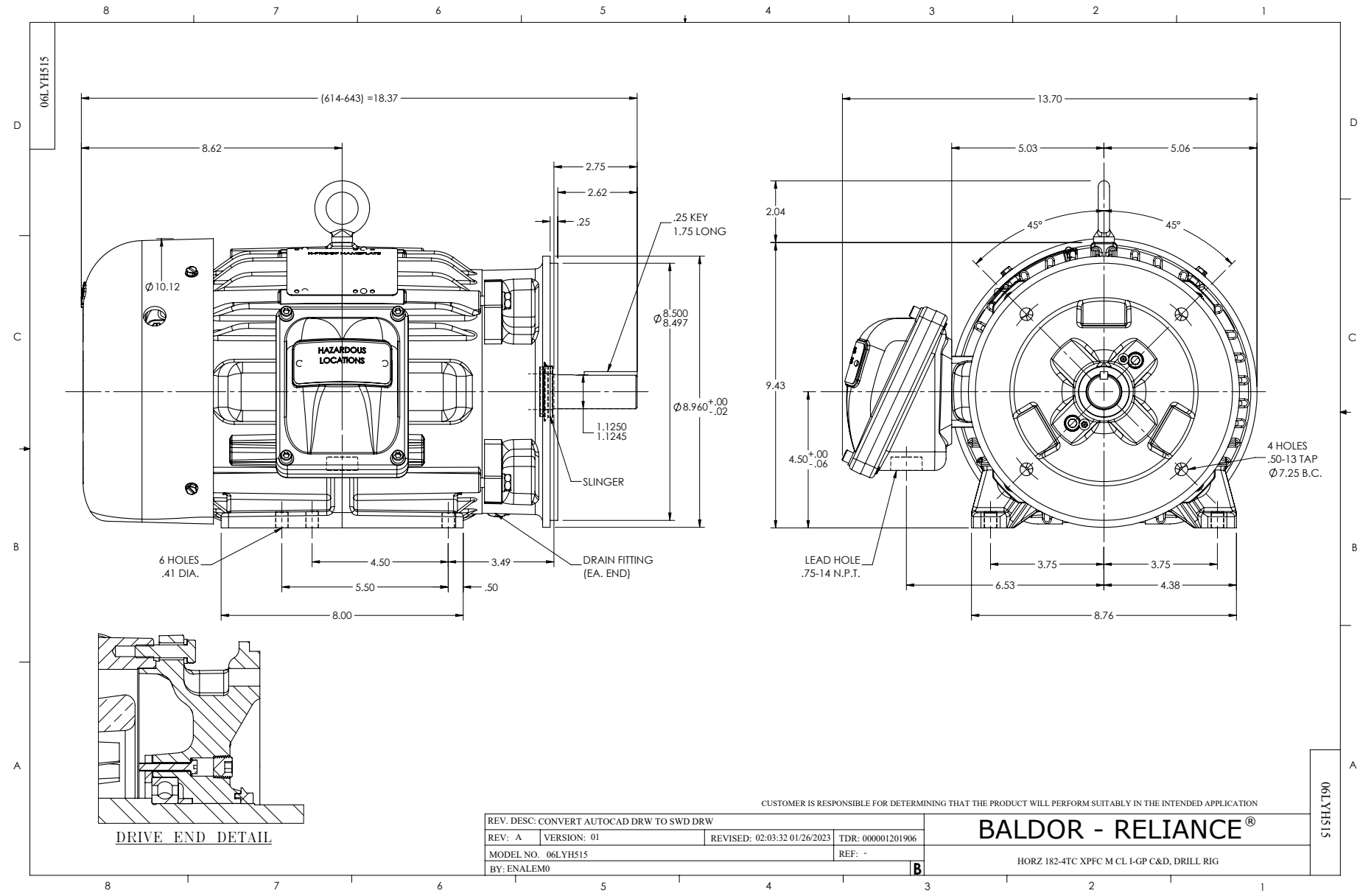
Winding: 06WGW970-R007	**Type:** 0642M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			2//1.5	**Full Load Torque**	8.17 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			6.3/3.15//6/3	**Breakdown Torque**	30 LB-FT
R.P.M.			1165//970	**Pull-up Torque**	17.62 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	20.39 A
Service Factor (S.F.)			1	**No-load Current**	1.82 A
NEMA Nom. Eff.	88.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	5.12 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	24°C
				Locked-rotor Power Factor	32.2
				Rotor inertia	0.395 LB-FT2

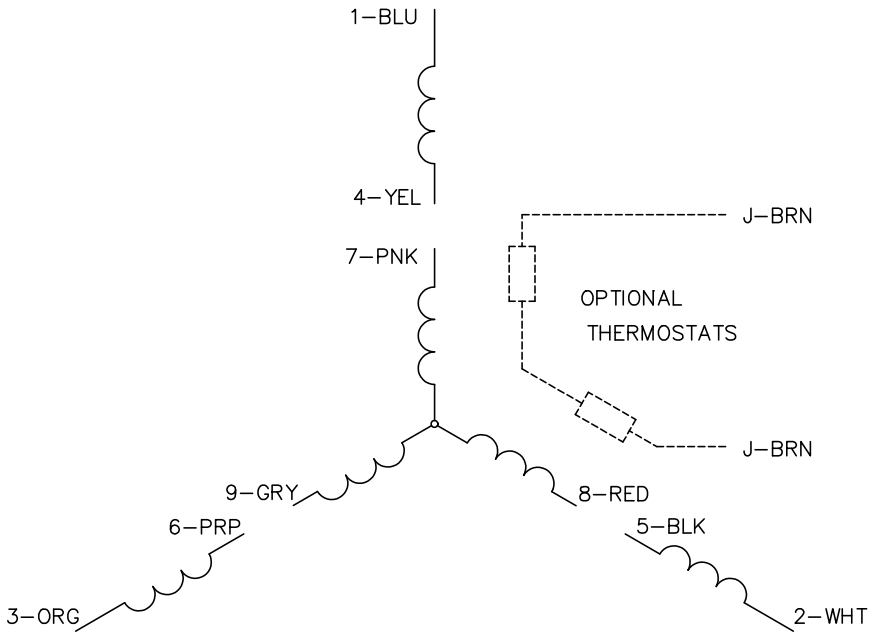
Load Characteristics 380 V, 50 Hz, 1.5 HP

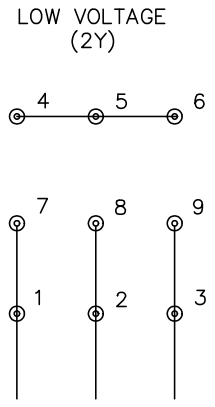
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	29	46	58	66	72	75
Efficiency	78	85.4	87.3	87.9	86.4	85.4
Speed	994	987	980	973	964	955
Line amperes	1.93	2.18	2.53	2.94	3.41	3.98

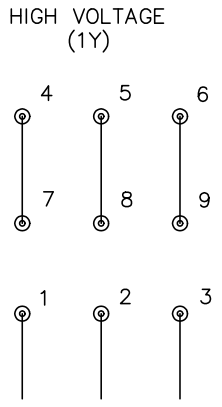

ABB Motors and Mechanical Inc.
WINDING # 06WGW970
1.5 HP 3 PH 50 HZ 973 RPM 380 V 0642M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=30 PU=17.62 LR=21 LRA=20.39
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/13/2026 ACPERF, record # 75926


06LYH515
(614-643) =18.37
8.62
2.75
2.62
.25
.25 KEY
1.75 LONG
Ø10.12
Ø8.500
8.497
HAZARDOUS
LOCATIONS
Ø8.960 +.00 -.02
1.1250
1.1245
SLINGER
6 HOLES
.41 DIA.
4.50
3.49
5.50
.50
8.00
DRAIN FITTING
(EA. END)
13.70
5.03
5.06
2.04
45°
45°
9.43
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75-14 N.P.T.
3.75
3.75
6.53
4.38
8.76
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: A
VERSION: 01
REVISED: 02:03:32 01/26/2023
TDR: 000001201906
MODEL NO. 06LYH515
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4TC XPFC M CL I-GP C&D, DRILL RIG
06LYH515

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