ABB BALDOR RELIANCE

Customer information packet

JPDRX18544T-5

5HP, 1750RPM, 3PH, 60HZ, 184JP, XPFC, F1
Class - CLI GP C,D
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/17/2026 2:18:12 AM

Specifications

Enclosure	XPFC
Frame	184JP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
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	5.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.3 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX200
Layout	06LYH458
Eff. date	02-28-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	08-02-2019

IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.09 IN
Power Factor	79
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	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

NP1401XPSLEV												
NO.					**CC**	010A						
S/N					**TEMP CODE**	T3C						
SPEC.	06-0000-0192				**INV.TYPE**	PWM						
CAT.NO.	JPDRX18544T-5				**C HP FR**	60	**C HP TO**	90				
HP	5				**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	575				**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	5.3			**MAG CUR**	2.3							
RPM	1750			**MX RPM**	2700							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	89.5					
SER.F.	1.00	**DES**	B	**SL HZ**	1.7	**WK2**	0.39					
FRAME	184JP	**RATING**	40C AMB-CONT									
	55C AMB @ 1.0 SF											
	1.15 SF ON SINEWAVE				NEMA MG-1 PT 5,IP55							

AC Induction Motor Performance Data
Record # 77542
Typical performance - not guaranteed values

Winding: 06WGX200-R053	**Type:** 0642M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15.04 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			5.3	**Breakdown Torque**	52.3 LB-FT
R.P.M.			1750	**Pull-up Torque**	21.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30.7 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	36.3 A
Service Factor (S.F.)			1	**No-load Current**	2.34 A
NEMA Nom. Eff.	89.5	**Power Factor**	79	**Line-line Res. @ 25ºC**	4.27 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
				Locked-rotor Power Factor	40.6
				Rotor inertia	0.391 LB-FT2

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	64	76	81	84	85
Efficiency	85.2	89.8	90.1	89.7	88.2	86.4
Speed	1788	1777	1764	1751	1736	1719
Line amperes	2.61	3.26	4.13	5.14	6.31	7.59

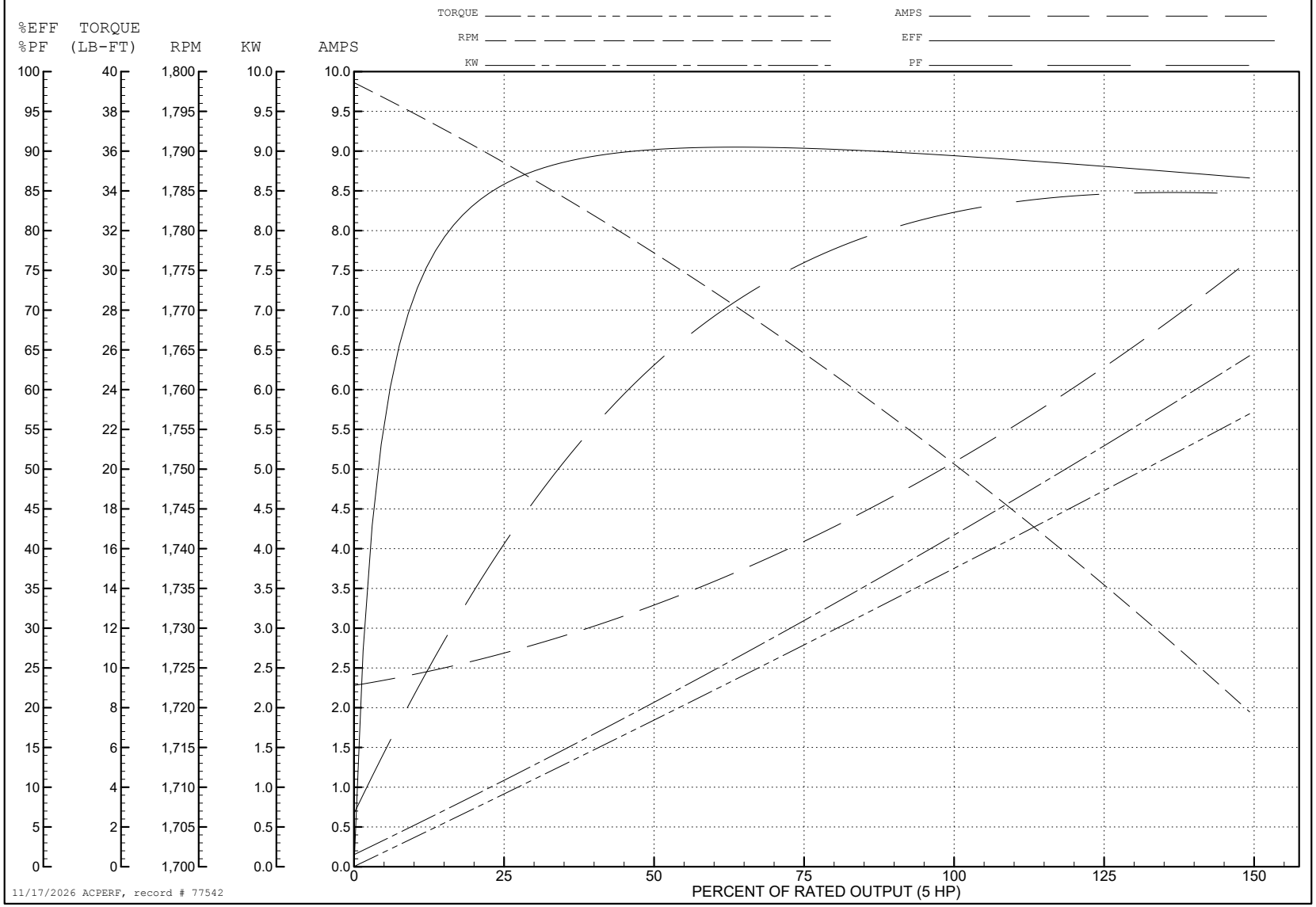
ABB Motors and Mechanical Inc.

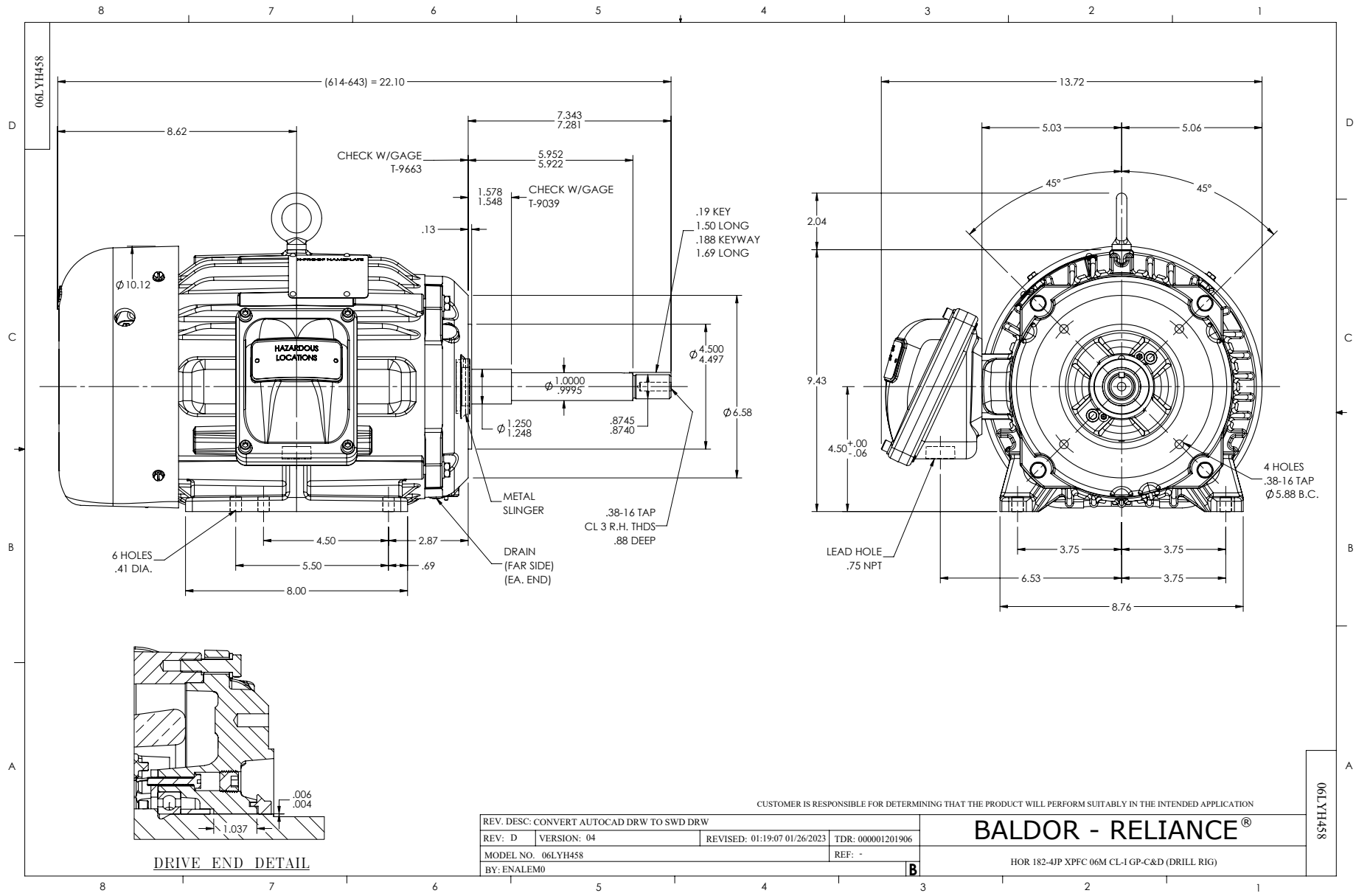
WINDING # 06WGX200

5 HP 3 PH 60 HZ 1750 RPM 575 V 0642M

Typical performance - not guaranteed values.

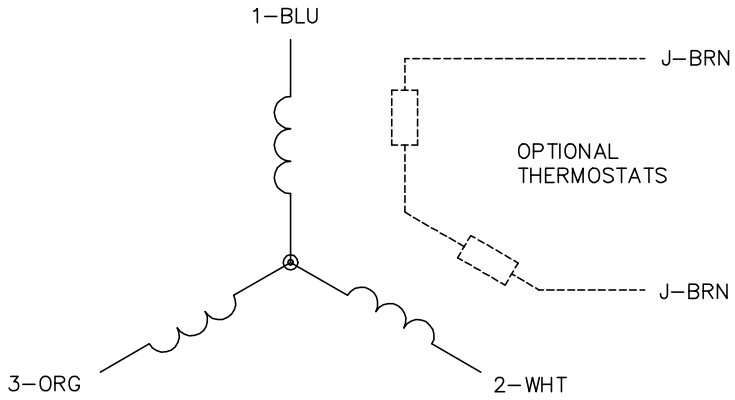
TORQUES(LB-FT): PO=52.3 PU=21.6 LR=30.7 LRA=36.3

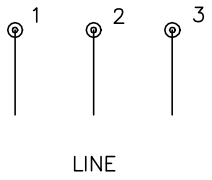



06LYH458
(614-643) = 22.10
8.62
7.343
7.281
CHECK W/GAGE
T-9663
5.952
5.922
1.578
1.548
CHECK W/GAGE
T-9039
.13
.19 KEY
1.50 LONG
.188 KEYWAY
1.69 LONG
Ø10.12
HAZARDOUS LOCATIONS
Ø4.500
4.497
Ø1.0000
.9995
Ø1.250
1.248
.8745
.8740
Ø6.58
METAL
SLINGER
.38-16 TAP
CL 3 R.H. THDS
.88 DEEP
6 HOLES
.41 DIA.
4.50
2.87
5.50
.69
8.00
DRAIN
(FAR SIDE)
(EA. END)
13.72
5.03
5.06
45°
45°
2.04
9.43
4.50 +.00 -.06
4 HOLES
.38-16 TAP
Ø5.88 B.C.
LEAD HOLE
.75 NPT
3.75
3.75
6.53
3.75
8.76
.006
.004
1.037
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: D
VERSION: 04
REVISED: 01:19:07 01/26/2023
TDR: 000001201906
MODEL NO. 06LYH458
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 182-4JP XPFC 06M CL-I GP-C&D (DRILL RIG)
06LYH458

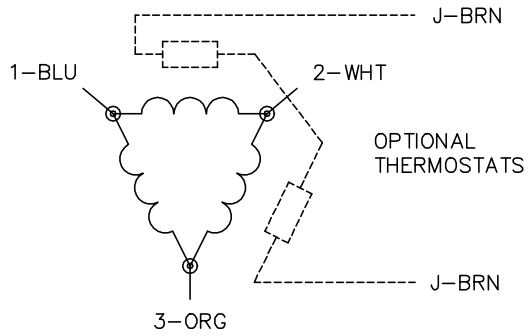
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1