ABB BALDOR RELIANCE

Customer information packet

XM18542T-CI

5//3HP, 1750//1450RPM, 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	5.000 HP @ 60 HZ
	3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	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	6.600 A @ 460.0 V
	5.100 A @ 380.0 V
	14.000 A @ 208.0 V
	13.200 A @ 230.0 V
	10.200 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	B
Type	AC
Mech. spec.	06J014
Base	
Status	PRD/A
Elec. spec.	06WGY545
Layout	06LYJ014
Eff. date	01-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	03-20-2024

Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
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	17.61 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 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

NP0887XPSL											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	06J014Y545G1			**INV.TYPE**	PWM						
CAT.NO.	XM18542T-CI			**C HP FR**	60	**C HP TO**	90				
HP	5//3			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	13.2/6.6//10.2/5.1			**MAG CUR**	6/3						
RPM	1750//1450			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	89.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.8	**WK2**	0.39				
FRAME	184T	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data
Record # 72834
Typical performance - not guaranteed values

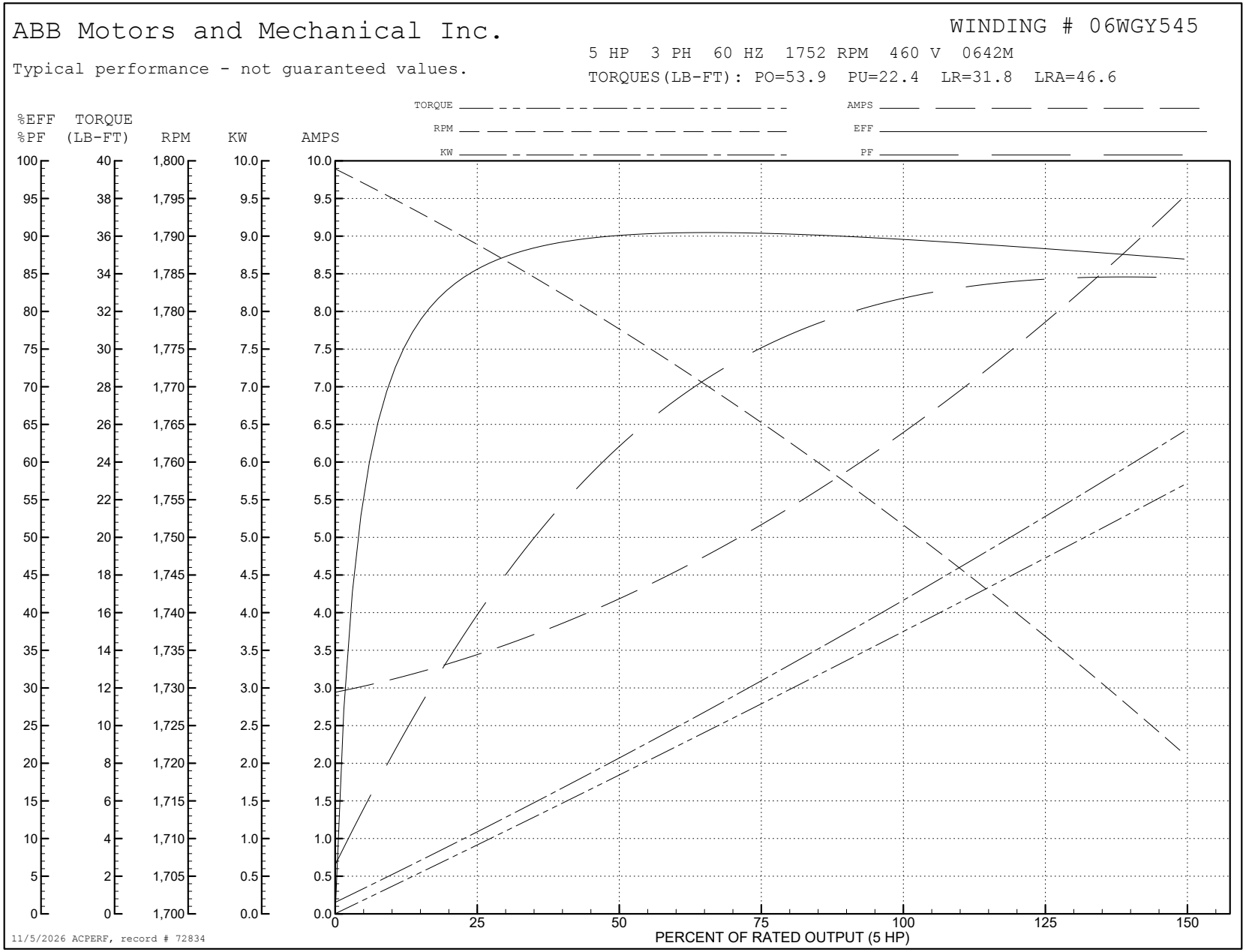
Winding: 06WGY545-R005	**Type:** 0642M	**Enclosure:** XPFC

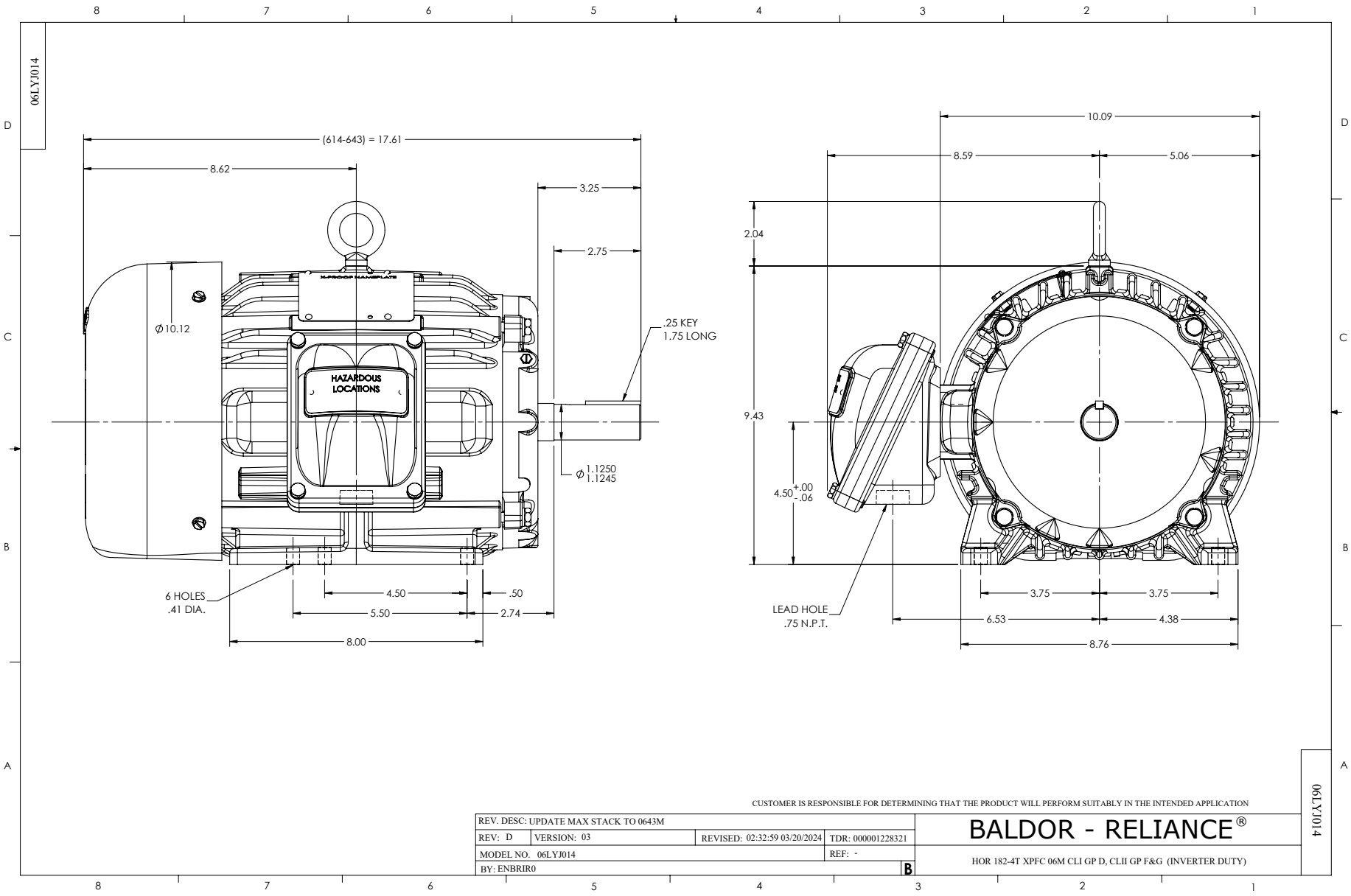
Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			13.2/6.6//10.2/5.1
R.P.M.			1750//1450
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	79
Rating - Duty			40C AMB-CONT

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
Locked-rotor Power Factor	40.5
Rotor inertia	0.391 LB-FT2

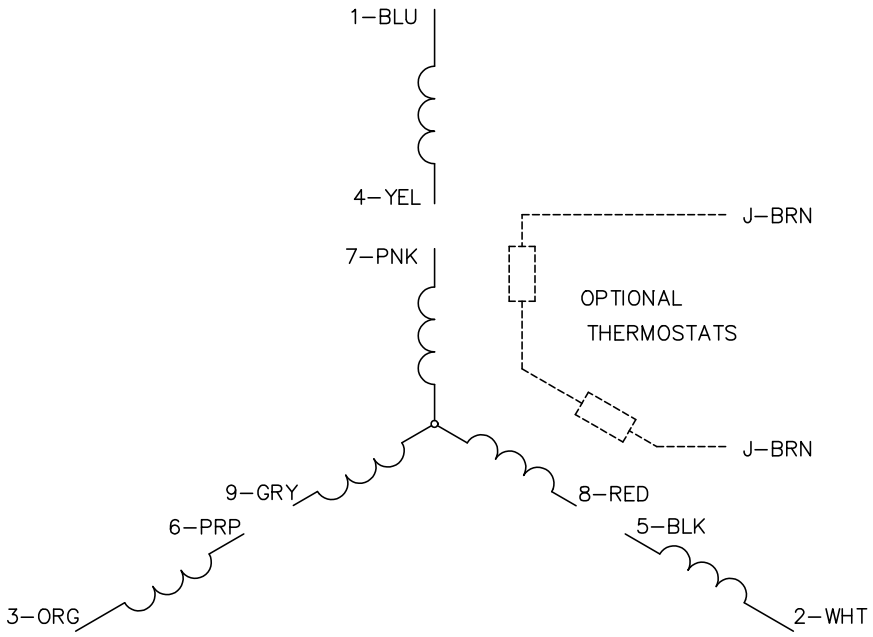
Load Characteristics 460 V, 60 Hz, 5 HP

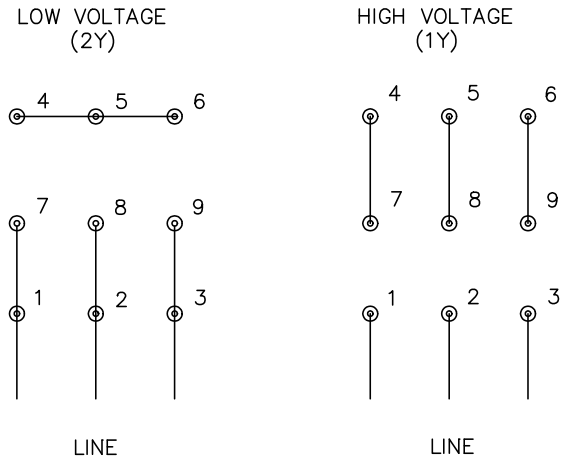
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	63	75	81	84	85
Efficiency	85.1	89.7	90.3	89.8	88.4	86.8
Speed	1789	1777	1765	1752	1737	1721
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47


ABB Motors and Mechanical Inc.
WINDING # 06WGY545
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)
11/5/2026 ACPERF, record # 72834


06LYJ014
(614-643) = 17.61
8.62
3.25
2.75
Ø 10.12
.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
10.09
8.59
5.06
2.04
9.43
4.50 +.00 -.06
LEAD HOLE
.75 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: UPDATE MAX STACK TO 0643M
REV: D
VERSION: 03
REVISED: 02:32:59 03/20/2024
TDR: 000001228321
MODEL NO. 06LYJ014
REF: -
BY: ENBRIR0
B
BALDOR - RELIANCE®
HOR 182-4T XPFC 06M CLI GP D, CLII GP F&G (INVERTER DUTY)
06LYJ014

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