ABB BALDOR RELIANCE

Customer information packet

CPX18546T

5//3HP, 1750//1450RPM, 3PH, 60//50HZ, 184T, X
Class - CLI GP C,D; CLII GP E,F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
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	230.0 V @ 60 HZ
	460.0 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	10.200 A @ 190.0 V
	13.200 A @ 230.0 V
	5.100 A @ 380.0 V
	6.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGY545
Layout	06LYJ961
Eff. date	06-11-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-07-2019

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.1 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
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	17.59 IN
Power Factor	81
Product Family	Super-E Chemical Processing
Pulley Face Code	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
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

NP2033XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	06-0000-0018			**INV.TYPE**	PWM						
CAT.NO.	CPX18546T			**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**	1.7	**WK2**	0.39				
FRAME	184T	**RATING**	40C AMB-CONT								
BLANK	55C AMB AT 1.00 SF SINEWAVE										
	NEMA MG-1 PART 5, IP55			1.15 SF SINEWAVE							

Parts List

Part number	Description	Quantity
SA365926	SA 06-0000-0018	1.000 ea
RA355330	RA 06-0000-0018	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP2033XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1081F	ALUM XP CAUTION LABEL (FS PLANT ONLY-	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06FH1003A06G	FAN COVER, X-PROOF--MACHINING W/GRAY EPO	1.000 ea
51XN1032A14	10-32 X 0.875 HX WS SL SR	4.000 ea
34FN3002A02	EXTERNAL FAN, PLASTIC, .905/.907 HUB W/	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
06EP1709A10	FREP X06M - XPFC FOR GROUP C&E W/GREASER	1.000 ea
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	4.000 ea
HA2009A46	SLINGER FOR GROUP E MTRS - 205 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
06EP1711A01	PU ENDPLATE, MACH	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	4.000 ea
HA2009A57	SLINGER, FOR GROUP E MOTORS - 306 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
51XN1032A28	10-32 X 1 3/4 HX WS SL SR	4.000 ea
HW4001A02	3/8 HX SOC PIPE PLUG W/.75" TAPER (F/S)	2.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea

HW4506A02	BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
07CB1000A02G	CONDUIT BOX, MODEL 306,EXP. PROOF,W/MG10	1.000 ea
10XN2520K14	1/4-20 X .88 HEX GRD 5 (20001)	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
07CB1502A01G	CONDUIT BOX LID MACH (DUCTILE IRON) GRAY	1.000 ea
84XN2520J16	1/4-20 X 1 SOC HD CAP SCREW	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
MG1500Y02	WILKOPON PRIMER YELLOW	0.001 ga
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.022 ga
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea

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

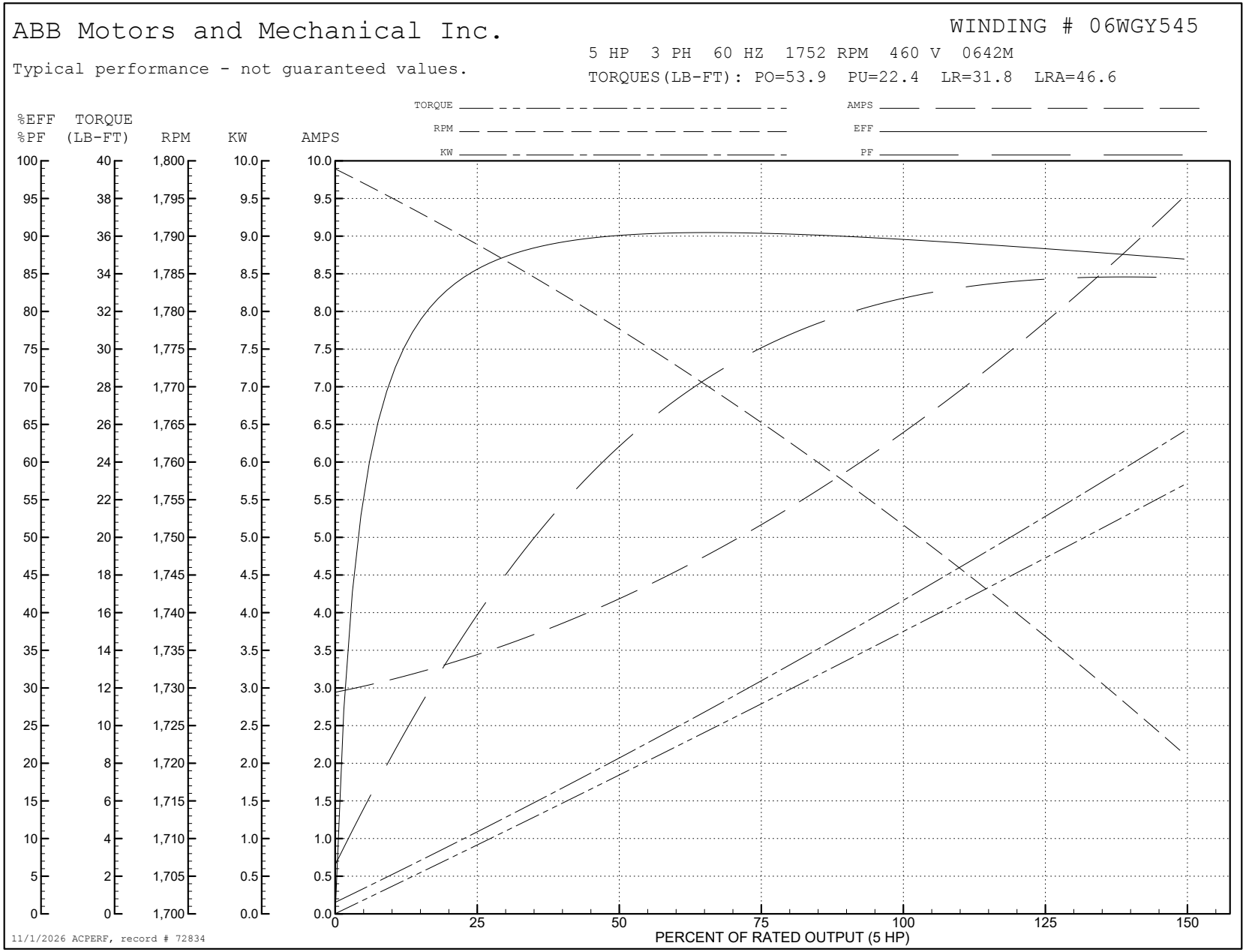
Winding: 06WGY545-R005	**Type:** 0642M	**Enclosure:** XPFC

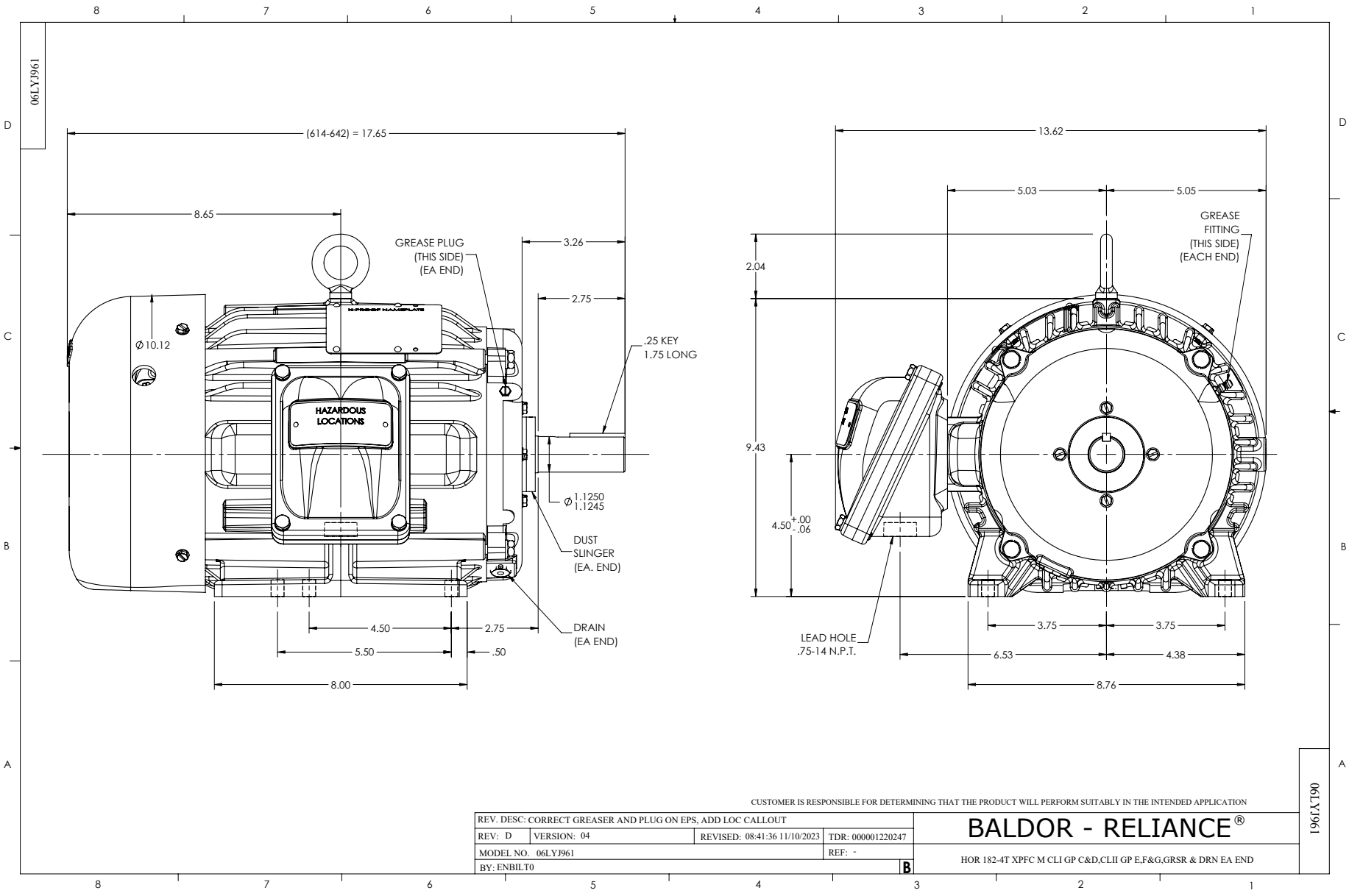
Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			13.2/6.6//10.2/5.1
R.P.M.			1750//1450
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	79
Rating - Duty			40C AMB-CONT

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

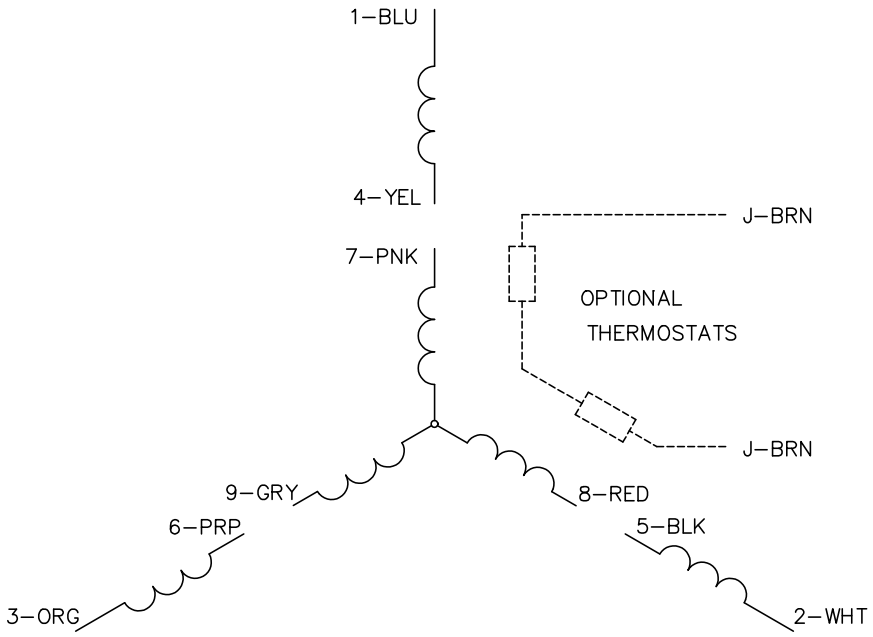
Load Characteristics 460 V, 60 Hz, 5 HP

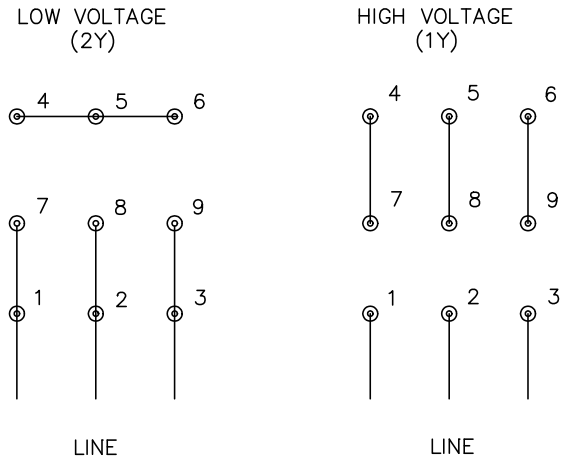
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	63	75	81	84	85
Efficiency	85.1	89.7	90.3	89.8	88.4	86.8
Speed	1789	1777	1765	1752	1737	1721
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47


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)
11/1/2026 ACPERF, record # 72834


06LYJ961
(614-642) = 17.65
8.65
GREASE PLUG
(THIS SIDE)
(EA END)
3.26
2.75
.25 KEY
1.75 LONG
Ø10.12
HAZARDOUS
LOCATIONS
Ø1.1250
1.1245
DUST
SLINGER
(EA. END)
4.50
2.75
5.50
.50
DRAIN
(EA END)
8.00
13.62
5.03
5.05
GREASE
FITTING
(THIS SIDE)
(EACH END)
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: CORRECT GREASER AND PLUG ON EPS, ADD LOC CALLOUT
REV: D
VERSION: 04
REVISED: 08:41:36 11/10/2023
TDR: 000001220247
MODEL NO. 06LYJ961
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HOR 182-4T XPFC M CLI GP C&D,CLII GP E,F&G,GRSR & DRN EA END
06LYJ961

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