ABB BALDOR RELIANCE

Customer information packet

EM7147T-C

7.5HP, 1770/1470RPM, 3PH, 60/50HZ, 213T
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213T
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	5.000 HP @ 50 HZ
	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA
	UL
	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	9.500 A @ 460.0 V
	8.000 A @ 380.0 V
	19.000 A @ 230.0 V
	16.000 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	Q
Type	AC
Mech. spec.	07H841
Base	
Status	INA/A
Elec. spec.	07WGX790
Layout	07LYH841
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-01-0001

Efficiency @ 100% Load	91.7 %
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	8.0 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 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.91 IN
Power Factor	81
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1470 rpm
	1770 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.	07H841X790G1						
CAT.NO.							
HP	7.5//5	**T. CODE**	T4				
VOLTS	230/460//190/380						
AMPS	19/9.5//16/8						
RPM	1770//1470						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	A	**CODE**	J		
RATING	40C AMB-CONT						
FRAME	213T	**NEMA-NOM-EFF**	91.7				
PF	81						
BLANK							

AC Induction Motor Performance Data
Record # 20695
Typical performance - not guaranteed values

Winding: 07WGX790-R002	**Type:** 0738M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5//5	**Full Load Torque**	22.2 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			19/9.5//16/8	**Breakdown Torque**	70.9 LB-FT
R.P.M.			1770//1470	**Pull-up Torque**	32.7 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	43 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	70.8 A
Service Factor (S.F.)			1	**No-load Current**	4.3 A
NEMA Nom. Eff.	91.7	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.41 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
				Locked-rotor Power Factor	37.2
				Rotor inertia	0.934 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	64	75	80	83	84
Efficiency	87.5	91.6	92.5	92	91.1	90.1
Speed	1793	1786	1778	1770	1760	1750
Line amperes	4.83	6.02	7.6	9.5	11.6	13.9

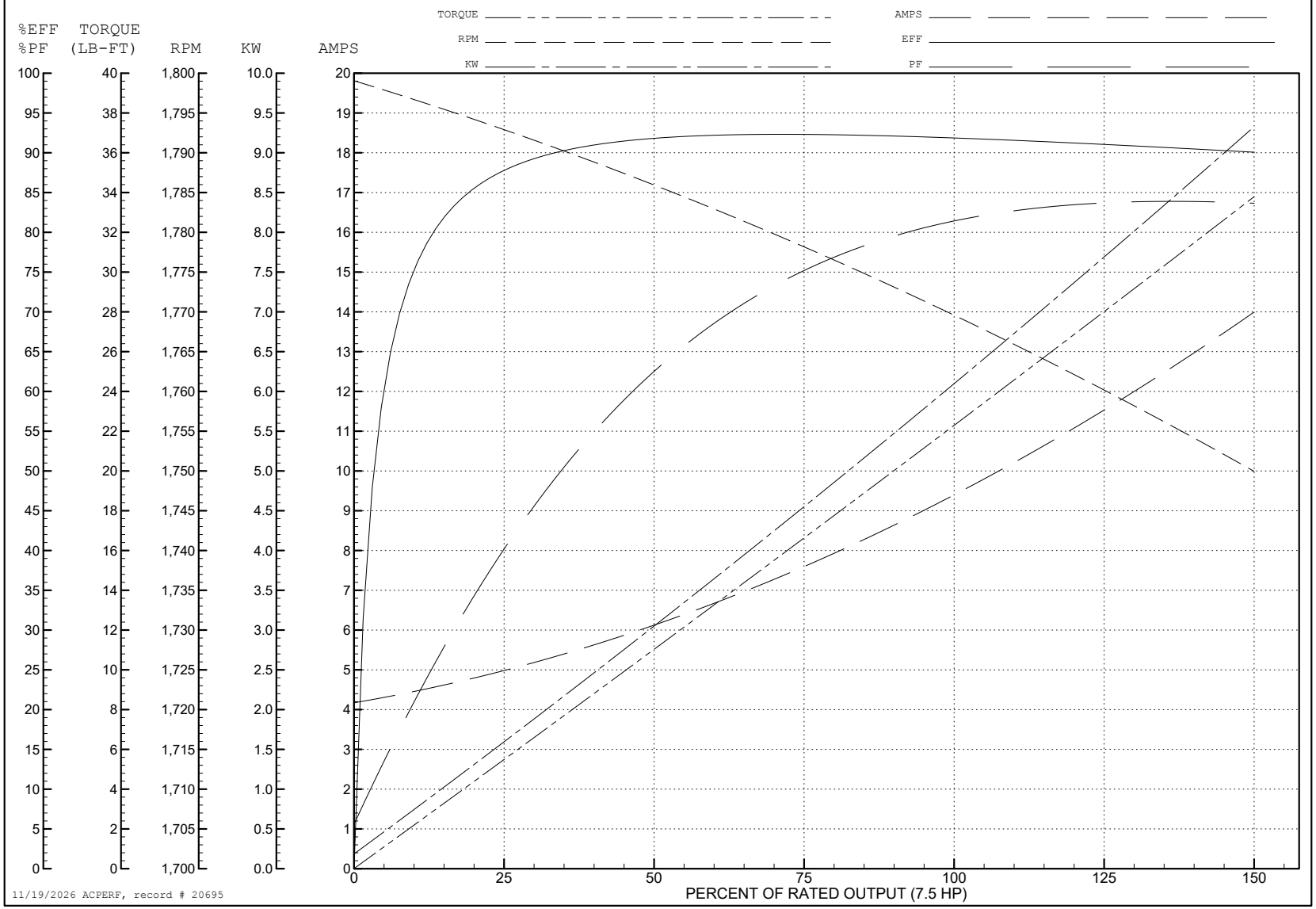
ABB Motors and Mechanical Inc.

WINDING # 07WGX790

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 0738M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=70.9 PU=32.7 LR=43 LRA=70.8



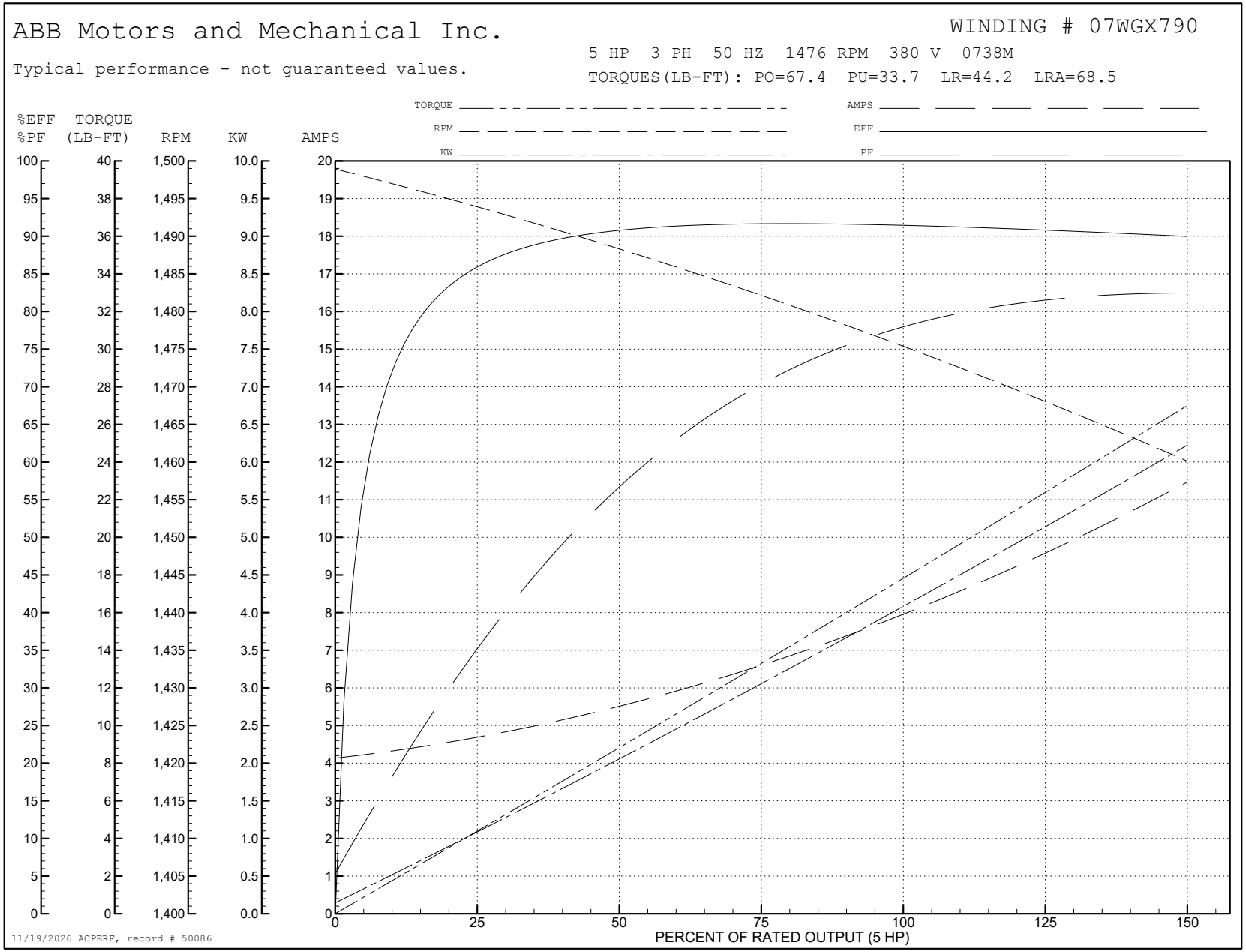
AC Induction Motor Performance Data
Record # 50086
Typical performance - not guaranteed values

Winding: 07WGX790-R002	**Type:** 0738M	**Enclosure:** XPFC

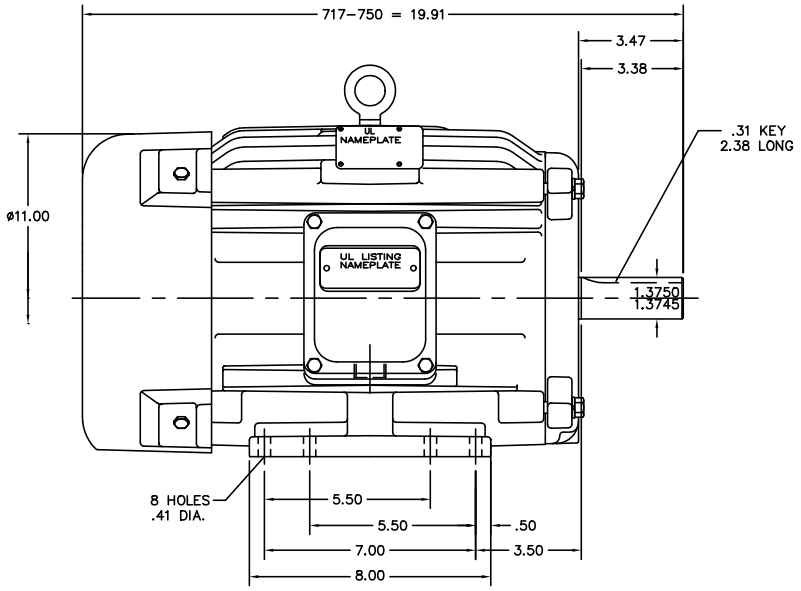
Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			7.5//5	**Full Load Torque**	17.75 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			19/9.5//16/8	**Breakdown Torque**	67.4 LB-FT
R.P.M.			1770//1470	**Pull-up Torque**	33.7 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	44.2 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	68.5 A
Service Factor (S.F.)			1	**No-load Current**	4.22 A
NEMA Nom. Eff.	91.7	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.41 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	32°C
				Locked-rotor Power Factor	41.5
				Rotor inertia	0.934 LB-FT2

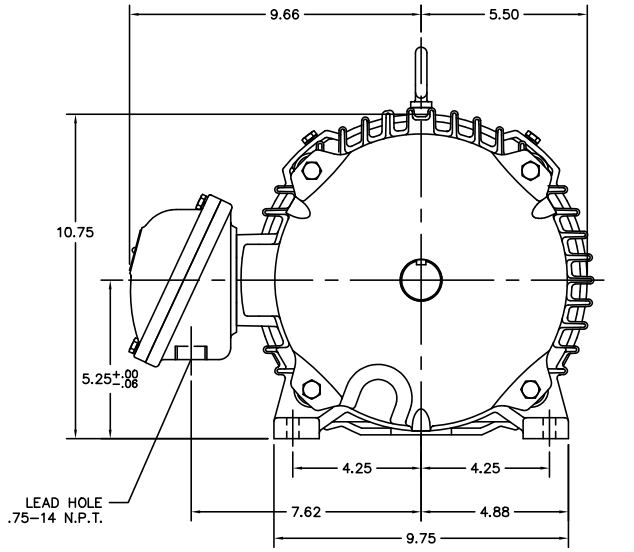
Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	36	58	70	77	81	83
Efficiency	85.5	90.5	91.8	91.4	90.7	89.9
Speed	1494	1488	1482	1476	1468	1460
Line amperes	4.59	5.44	6.59	8.03	9.64	11.4


ABB Motors and Mechanical Inc.
WINDING # 07WGX790
Typical performance - not guaranteed values.
5 HP 3 PH 50 HZ 1476 RPM 380 V 0738M
TORQUES(LB-FT): PO=67.4 PU=33.7 LR=44.2 LRA=68.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/19/2026 ACPERF, record # 50086

07LYH841





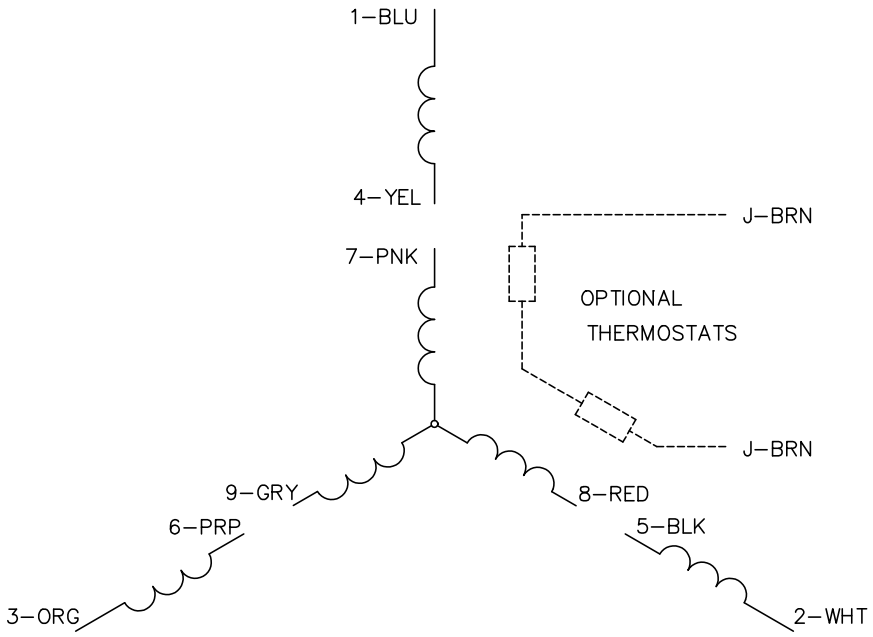
CUST. NAME	CUST. P.O.	CERTIFIED BY	MODEL	INSUL	AMB
H.P.	MTG	TYPE	R.P.M.	VOLTS	ENCL PHASE FREQ FRAME
REV. DESC: TITLE BOX XPFC WAS TEFC					
REV. LTR: A	BY: GS	REVISED: 08/28/98 8:51	TDR: 0129238		
FILE: AAA00047068			MDL: –		
MTL: –					

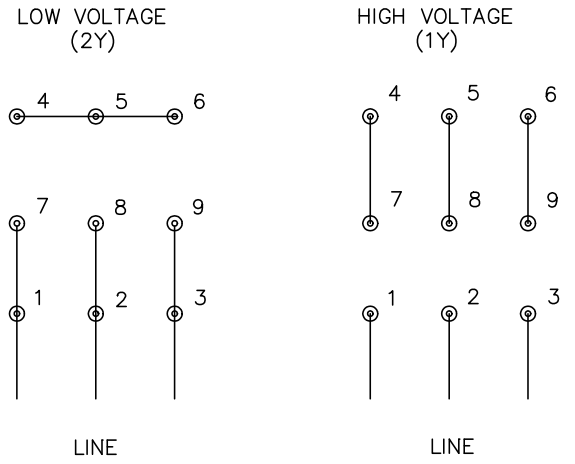
BALDOR ELECTRIC Co.

HORZ 213–5T XPFC X307M CL I–GP C&D–CL II–GP F & G

07LYH841

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