ABB BALDOR RELIANCE

Customer information packet

EM7170T-C

10//7.5HP, 1760//1465RPM, 3PH, 60//50HZ, 215
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	215T
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	10.000 HP @ 60 HZ
	7.500 HP @ 50 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	24.400 A @ 230.0 V
	22.600 A @ 190.0 V
	12.200 A @ 460.0 V
	11.300 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	N
Type	AC
Mech. spec.	07H841
Base	
Status	INA/A
Elec. spec.	07WGY179
Layout	07LYH841
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	05-19-2010

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	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
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	X0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.91 IN
Power Factor	83
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	1465 rpm
	1760 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.	07H841Y179G1						
CAT.NO.							
HP	10//7.5	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	24.4/12.2//22.6/11.3						
RPM	1760//1465						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	H		
RATING	40C AMB-CONT						
FRAME	215T	**NEMA-NOM-EFF**	91.7				
PF	83						
BLANK							

AC Induction Motor Performance Data
Record # 35567
Typical performance - not guaranteed values

Winding: 07WGY179-R003	**Type:** 0748M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10//7.5	**Full Load Torque**	29.8 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			24.4/12.2//22.6/11.3	**Breakdown Torque**	80.9 LB-FT
R.P.M.			1760//1465	**Pull-up Torque**	40.2 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	52.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	81 A
Service Factor (S.F.)			1	**No-load Current**	4.44 A
NEMA Nom. Eff.	91.7	**Power Factor**	83	**Line-line Res. @ 25ºC**	1.08 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	80°C
				Locked-rotor Power Factor	35
				Rotor inertia	1.18 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	50	71	80	83	85	85
Efficiency	90.4	92.5	92.9	92.4	91	89.1
Speed	1791	1782	1774	1763	1751	1737
Line amperes	5.24	7.1	9.42	12.2	15.2	18.7

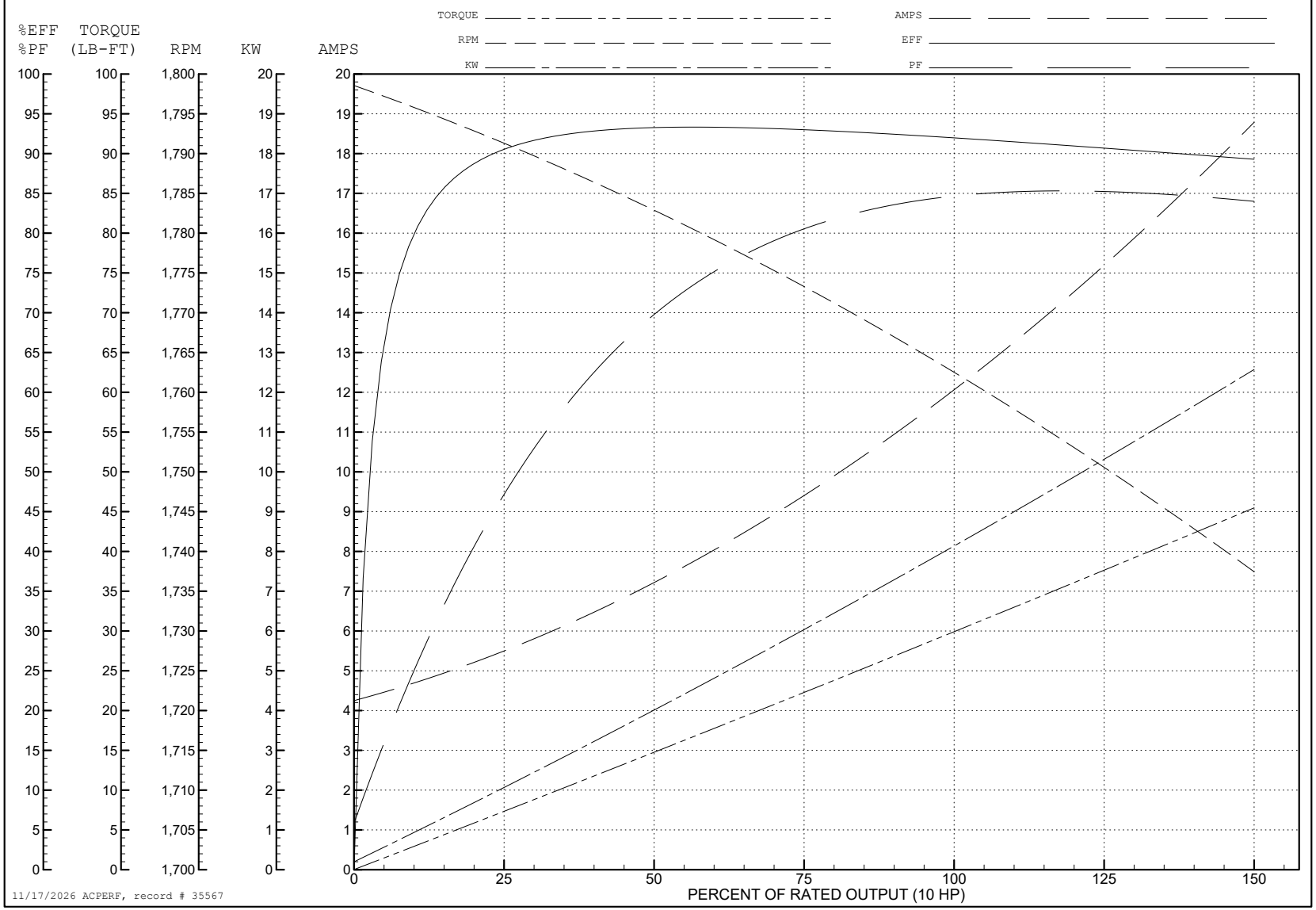
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WINDING # 07WGY179

10 HP 3 PH 60 HZ 1763 RPM 460 V 0748M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=80.9 PU=40.2 LR=52.6 LRA=81



AC Induction Motor Performance Data
Record # 39916
Typical performance - not guaranteed values

Winding: 07WGY179-R019	**Type:** 0748M	**Enclosure:** TEFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	26.8 LB-FT
Volts			190/380-400-415	**Start Configuration**	direct on line
Full Load Amps			22.6/11.3-11	**Breakdown Torque**	77.4 LB-FT
R.P.M.			1470	**Pull-up Torque**	41.6 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	54.5 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	78.7 A
Service Factor (S.F.)			1	**No-load Current**	4.38 A
NEMA Nom. Eff.	91.7	**Power Factor**	80	**Line-line Res. @ 25ºC**	1.08 Ω
Rating - Duty			50C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
				Locked-rotor Power Factor	39
				Rotor inertia	1.18 LB-FT2

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	47	69	79	83	85	85
Efficiency	90.1	92.1	92.4	91.8	90.4	88.6
Speed	1492	1484	1477	1467	1456	1444
Line amperes	5.06	6.67	8.74	11.2	13.9	17.1

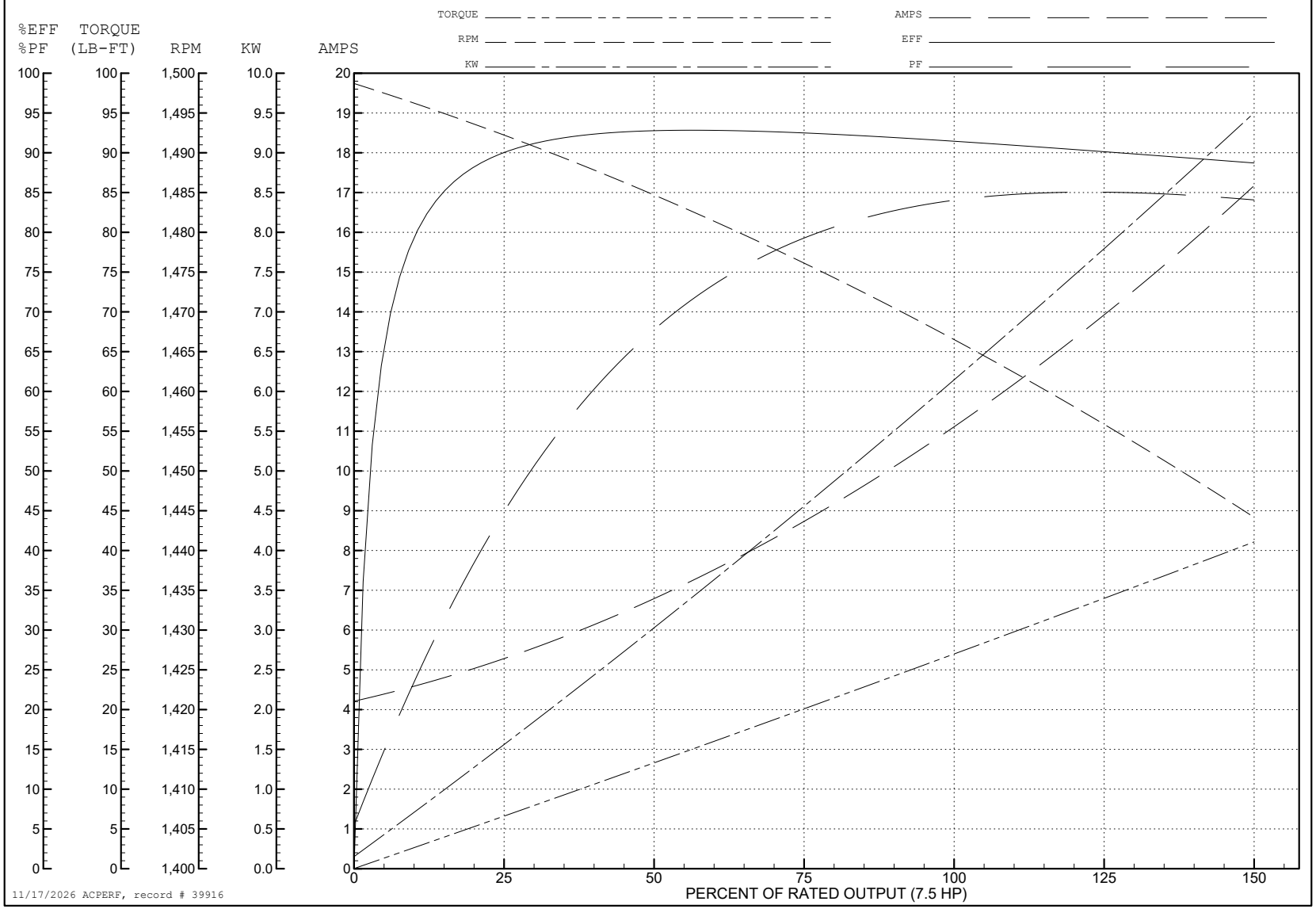
ABB Motors and Mechanical Inc.

WINDING # 07WGY179

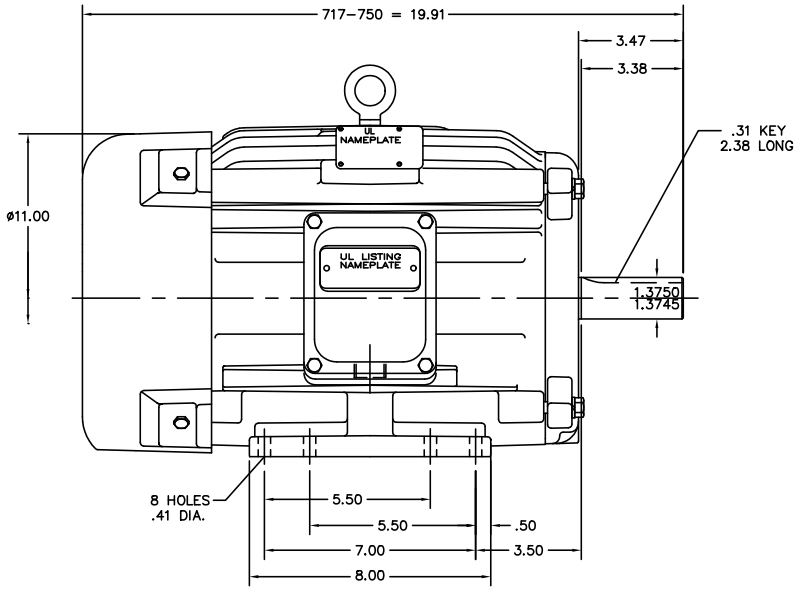
7.5 HP 3 PH 50 HZ 1470 RPM 380 V 0748M

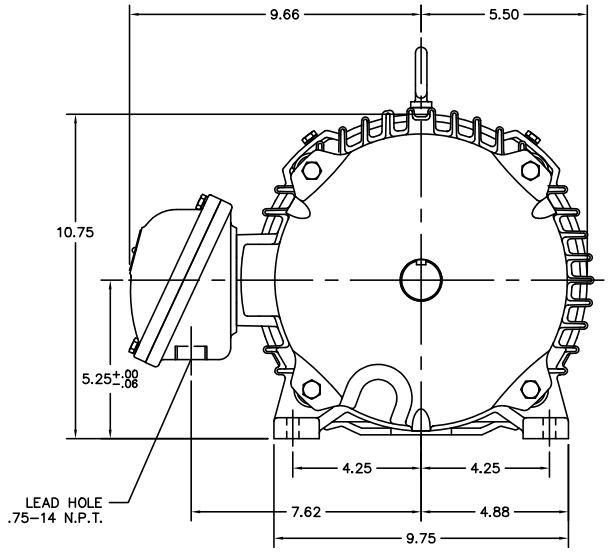
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=77.4 PU=41.6 LR=54.5 LRA=78.7



07LYH841





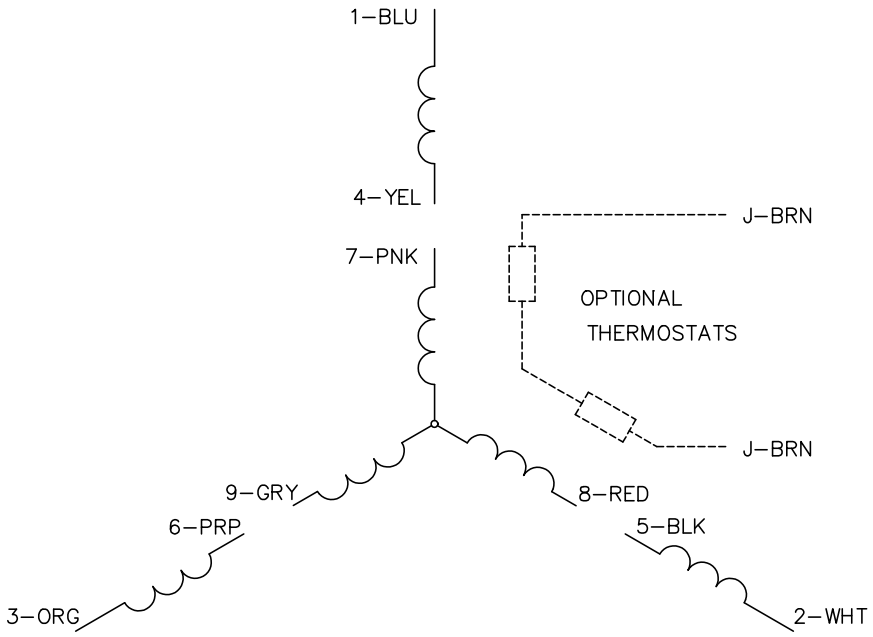
CUST. NAME	CUST. P.O.	CERTIFIED BY	MODEL	INSUL	AMB
H.P.	MTG	TYPE	R.P.M.	VOLTS	ENCL PHASE FREQ FRAME
REV. DESC: TITLE BOX XPFC WAS TEFC					
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MTL: –					

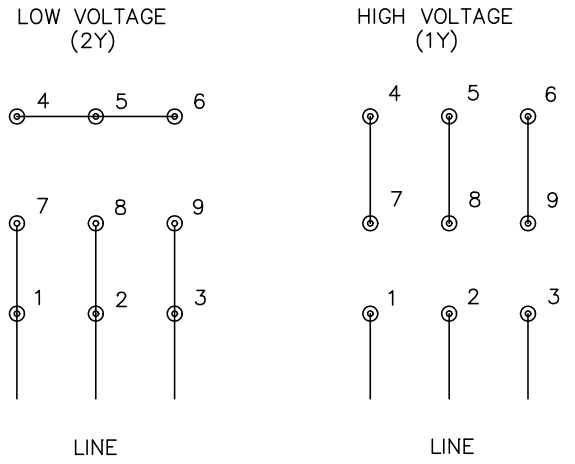
BALDOR ELECTRIC Co.

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