

ABB BALDOR RELIANCE III

Customer information packet

EM7054T-C

15//10HP, 1765//1470RPM, 3PH, 60//50HZ, 254T

Class - CLI GP C,D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	254T
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 @ 50 HZ 15.000 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
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	38.000 A @ 208.0 V 36.200 A @ 230.0 V 30.400 A @ 190.0 V 18.100 A @ 460.0 V 15.200 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	R
Type	AC
Mech. spec.	09F101
Base	
Status	PRD/A
Elec. spec.	09WZ910
Layout	09LYF101
Eff. date	04-09-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	06-03-2015

Efficiency @ 100% Load	92.4 %
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	15.2 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.50 IN
Power Factor	83
Product Family	Hazardous Location Motor
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1470 rpm
	1765 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

NP0978XPSL												
NO.								CC	010A			
SER.								TEMP CODE	T4			
SPEC.	09F101Z910G1											
CAT.NO.												
HP	15//10											
VOLTS	230/460//190/380											
AMPS	36.2/18.1//30.4/15.2											
RPM	1765//1470				MOTOR WEIGHT				373			
HERTZ	60//50		PH	3	CL	B	DE BRG	6309				
SER.F.	1.00		DES	A	CODE	H	ODE BRG	6208				
FRAME	254T		GREASE			POLYREX EM						
RATING	40C AMB-CONT											
					NEMA-NOM-EFF				92.4		PF	83

AC Induction Motor Performance Data

Record # 51147

Typical performance - not guaranteed values

Winding: 09WGZ910-R043			Type: 0944M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15//10		Full Load Torque		44.5 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		36.2/18.1//30.4/15.2		Breakdown Torque		153 LB-FT	
R.P.M.		1765//1470		Pull-up Torque		69.5 LB-FT	
Hz		60//50	Phase	3	Locked-rotor Torque		86.5 LB-FT
NEMA Design Code		A	KVA Code	H	Starting Current		127 A
Service Factor (S.F.)		1		No-load Current		7.56 A	
NEMA Nom. Eff.		92.4	Power Factor	83	Line-line Res. @ 25°C		0.59555 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C	
				Locked-rotor Power Factor		33	
				Rotor inertia		1.92 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	45	69	79	83	85	87
Efficiency	88.2	92.2	92.7	92.4	91.5	90.4
Speed	1791.3	1783.1	1774	1765.2	1754.6	1743.1
Line amperes	8.62	11	14.5	18.1	22.6	26.9

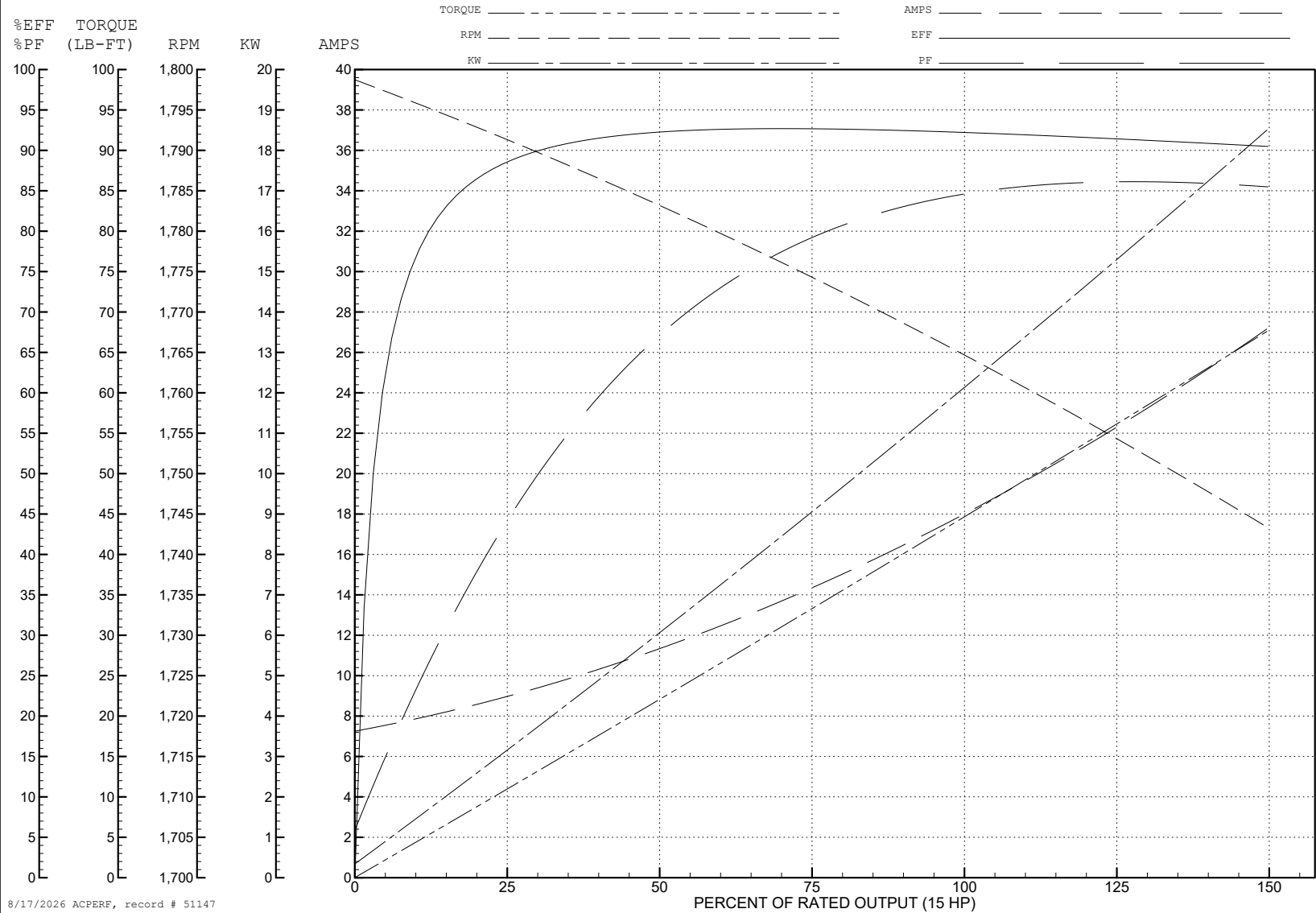
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WINDING # 09WGZ910

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765.2 RPM 460 V 0944M

TORQUES (LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127



AC Induction Motor Performance Data

Record # 51148

Typical performance - not guaranteed values

Winding: 09WGZ910-R043				Type: 0944M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		15//10		Full Load Torque		35.6 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		36.2/18.1//30.4/15.2		Breakdown Torque		147 LB-FT	
R.P.M.		1765//1470		Pull-up Torque		71.4 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		H	
Service Factor (S.F.)		1		No-load Current		7.43 A	
NEMA Nom. Eff.		92.4		Power Factor		83	
Rating - Duty		40C		AMB-CONT			
				Temp. Rise @ Rated Load		41°C	
				Locked-rotor Power Factor		36.7	
				Rotor inertia		1.92 LB-FT2	

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	40	63	74	81	83	86
Efficiency	85.2	90.8	91.6	91.6	90.9	90.2
Speed	1493	1486	1479	1472	1463	1454
Line amperes	8.17	9.86	12.5	15.2	18.7	22

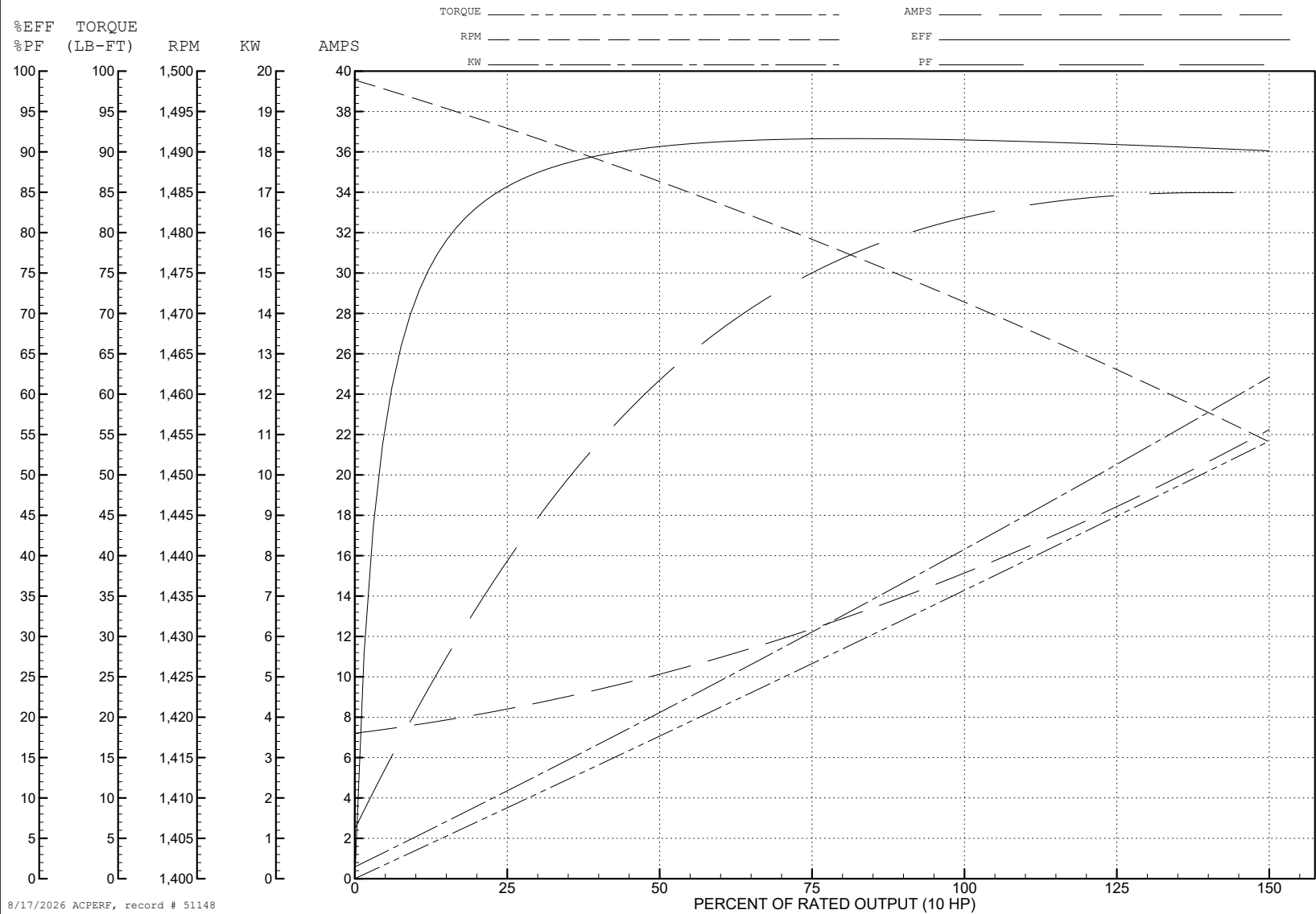
ABB Motors and Mechanical Inc.

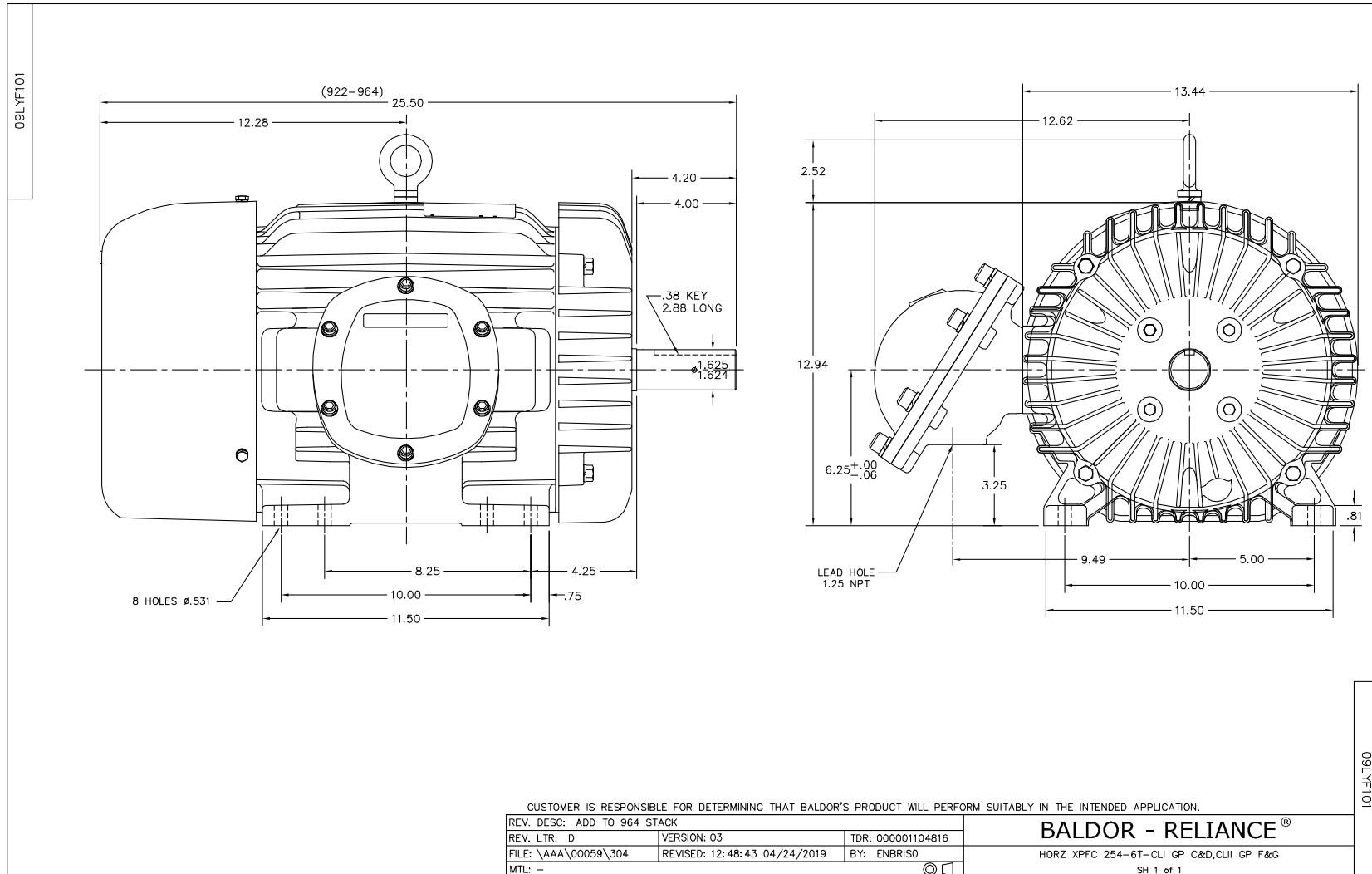
WINDING # 09WGZ910

Typical performance - not guaranteed values.

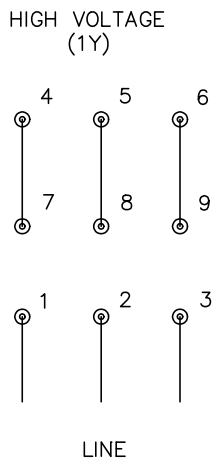
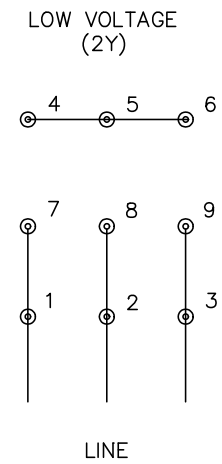
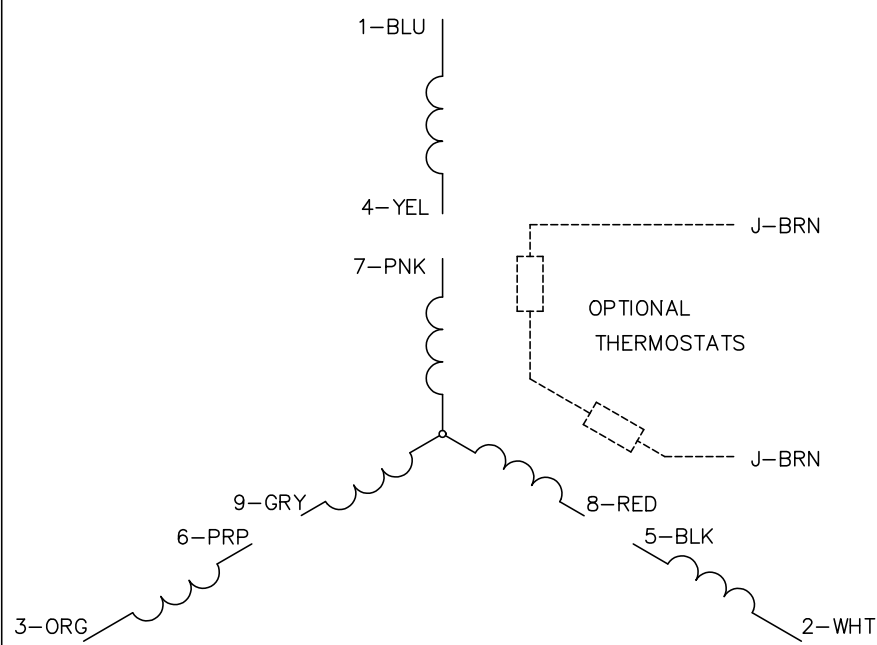
10 HP 3 PH 50 HZ 1472 RPM 380 V 0944M

TORQUES (LB-FT): PO=147 PU=71.4 LR=88.9 LRA=123





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005