

ABB BALDOR RELIANCE III

Customer information packet

CPX21126T

10HP, 3490//2900RPM, 3PH, 60HZ, 215T, XPFC, F1

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

Division - Division I

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 E,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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
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	22.400 A @ 230.0 V 20.800 A @ 190.0 V 11.200 A @ 460.0 V 10.400 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	07WGY361
Layout	07LY-000-018
Eff. date	04-13-2021
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-30-2019

Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	10.4 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.02 IN
Power Factor	87
Product Family	Super-E Chemical Processing
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3490 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.	07-0000-0122						INV.TYPE		PWM			
CAT.NO.	CPX21126T						C HP FR	60	C HP TO	90		
HP	10//7.5						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	22.4/11.2//20.8/10.4						MAG CUR		6.6/3.3			
RPM	3490//2900						MX RPM		5400			
HZ	60//50	PH	3	CL	F	NOM.EFF.		90.2				
SER.F.	1.00	DES	B	SL HZ	1.8	WK2		0.273				
FRAME	215T	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
SA369095	SA 07-0000-0122	1.000 ea
RA358639	RA 07-0000-0122	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
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
07FH1003A05G	FAN HOUSING 307 EXPLOSION PROOF W/ GREAS	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	4.000 ea
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
07EP1707A22G	FRONT ENDPLATE EXPLOSION PROOF(GROUP C &	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA2009A25	SLINGER, FOR GROUP E MOTORS - 206 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	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	BREATHING/DRAIN-EXP PROOF-.125-27 NPTF AI	1.000 ea
HW3022E05	.125 DIA X .500 ROLLED SPRING PIN	1.000 ea
07EP1709A09G	PUEP X-PROOF W/LOK'D BRG. GP-E (GREY)	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HA2009A56	SLINGER, FOR GROUP E MOTORS - 307 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	1.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 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
07CB1000A01G	CONDUIT BOX MACH, W/EPOXY GRAY	1.000 ea
10XN3118A16	5/16-18X1 HEX HD CAP	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
MG1500Y02	WILKOPON PRIMER YELLOW	0.022 ga
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.022 ga
07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 ea
10XL3807A28	3/8-7 X 1 3/4" LAG SCREW	2.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt

AC Induction Motor Performance Data

Record # 75763

Typical performance - not guaranteed values

Winding: 07WGY361-R002			Type: 0730M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10		Full Load Torque		15 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		22.4/11.2//20.8/10.4		Breakdown Torque		50.8 LB-FT		
R.P.M.		3490//2900		Pull-up Torque		19.3 LB-FT		
Hz		60//60	Phase	3		Locked-rotor Torque	26.8 LB-FT	
NEMA Design Code		B		KVA Code		G	Starting Current	72.6 A
Service Factor (S.F.)		1		No-load Current		3.34 A		
NEMA Nom. Eff.		90.2	Power Factor		87		Line-line Res. @ 25°C	0.995 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C		
				Locked-rotor Power Factor		32.6		
				Rotor inertia		0.273 LB-FT2		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	64	83	90	92	92	91
Efficiency	88.8	91.9	91.7	90.4	89.3	87.7
Speed	3575	3550	3524	3493	3458	3418
Line amperes	4.15	6.08	8.55	11.2	14.3	17.6

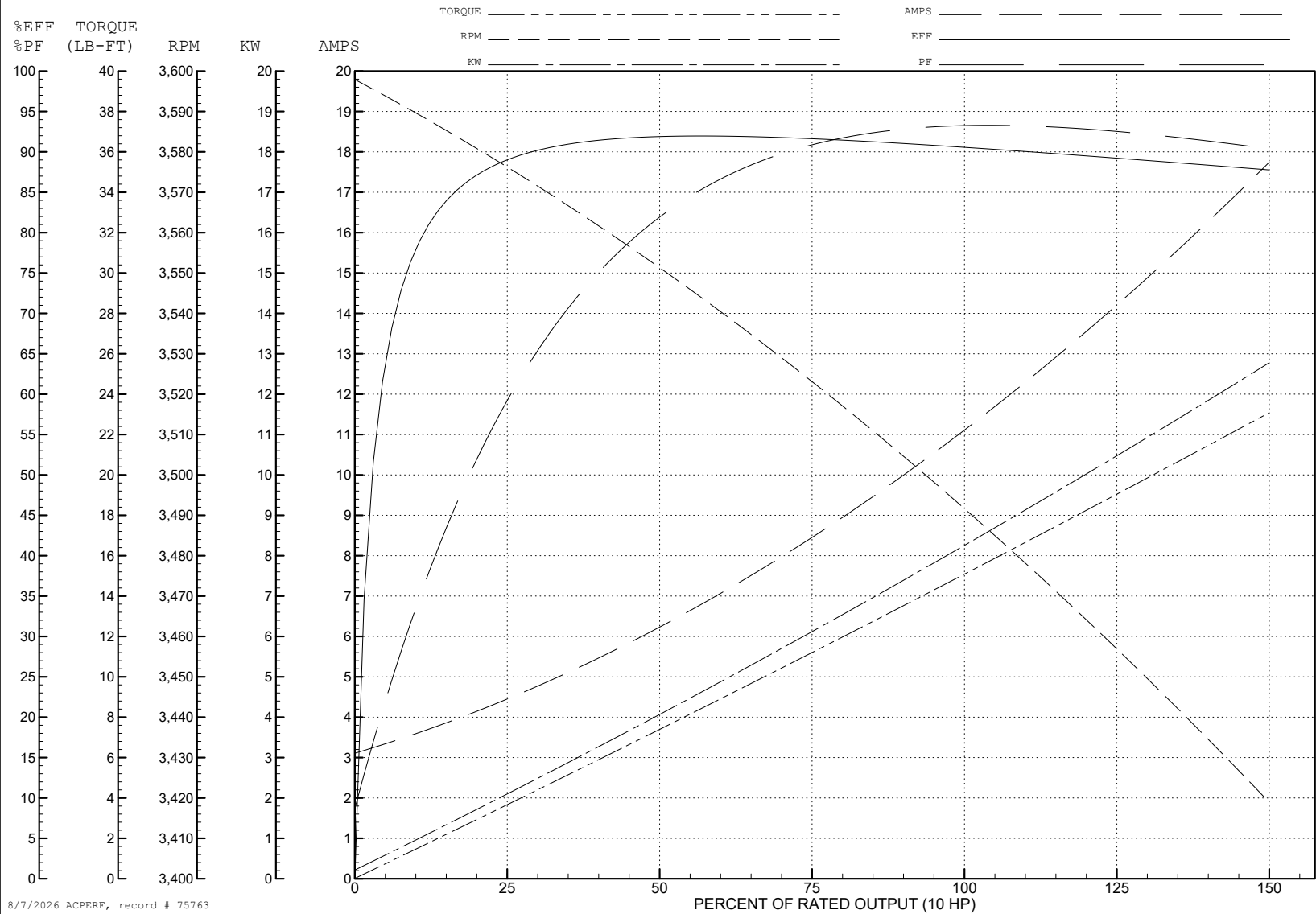
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WINDING # 07WGY361

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3493 RPM 460 V 0730M

TORQUES (LB-FT) : PO=50.8 PU=19.3 LR=26.8 LRA=72.6



AC Induction Motor Performance Data

Record # 75764

Typical performance - not guaranteed values

Winding: 07WGY361-R002				Type: 0730M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		10//7.5		Full Load Torque		13.54 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		22.4/11.2//20.8/10.4		Breakdown Torque		48.46 LB-FT	
R.P.M.		3490//2900		Pull-up Torque		20.4 LB-FT	
Hz		60//60		Phase		3	
NEMA Design Code		B		KVA Code		G	
Service Factor (S.F.)		1		No-load Current		3.25 A	
NEMA Nom. Eff.		90.2		Power Factor		87	
Rating - Duty		40C		AMB-CONT			
				Rotor inertia		0.273 LB-FT2	

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	63	82	89	92	92	91
Efficiency	85	89.6	89.9	88.9	87.9	86.3
Speed	2976	2954	2930	2902	2871	2836
Line amperes	3.99	5.73	7.96	10.38	13.19	16.17

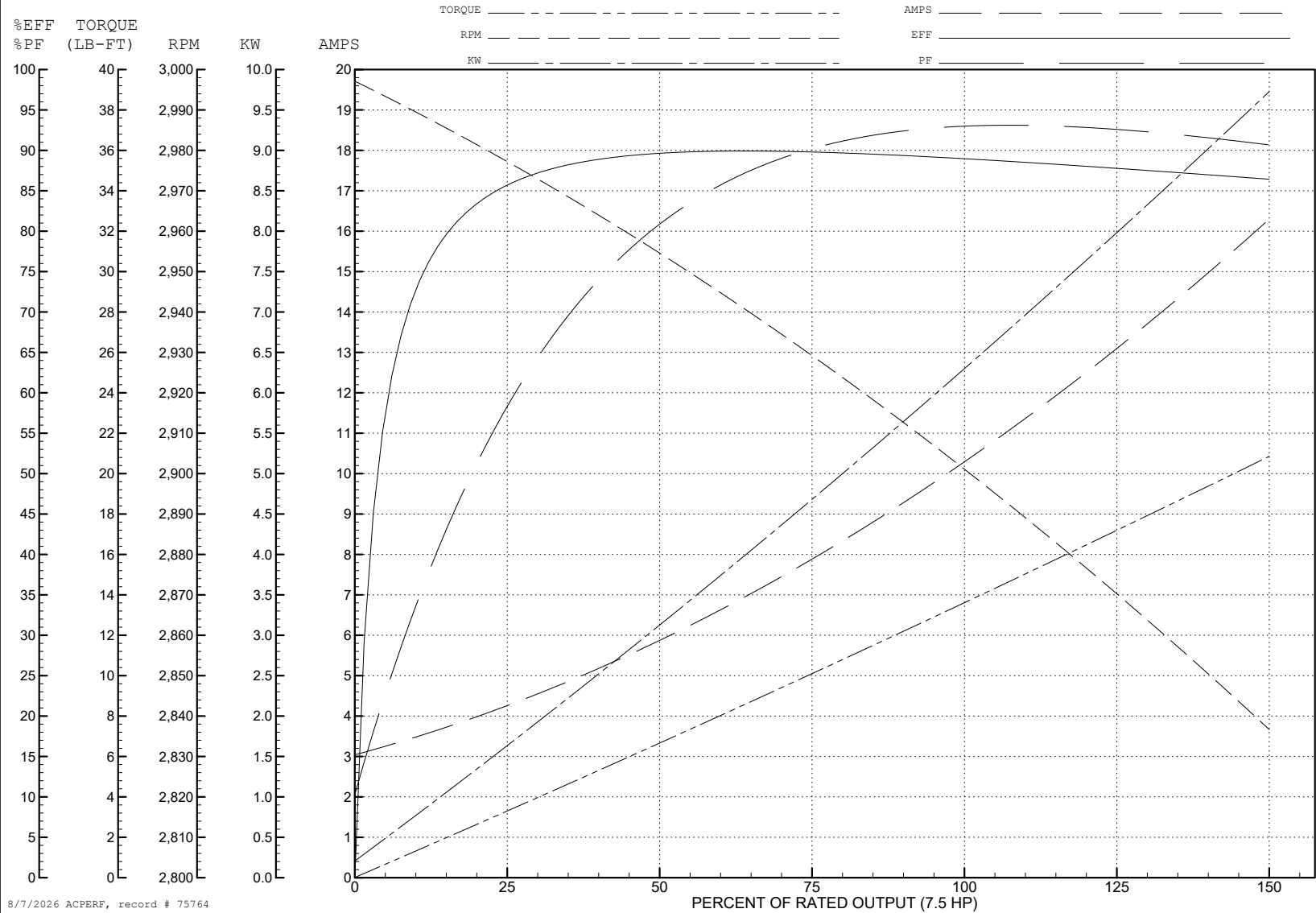
ABB Motors and Mechanical Inc.

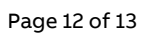
WINDING # 07WGY361

Typical performance - not guaranteed values.

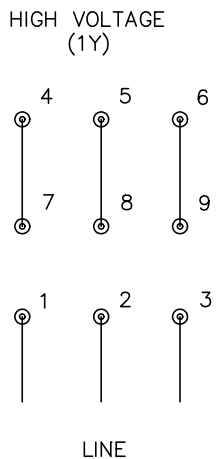
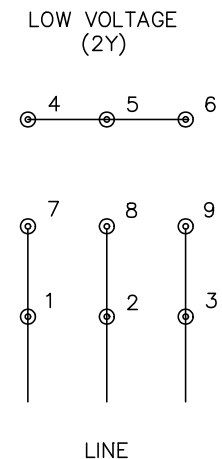
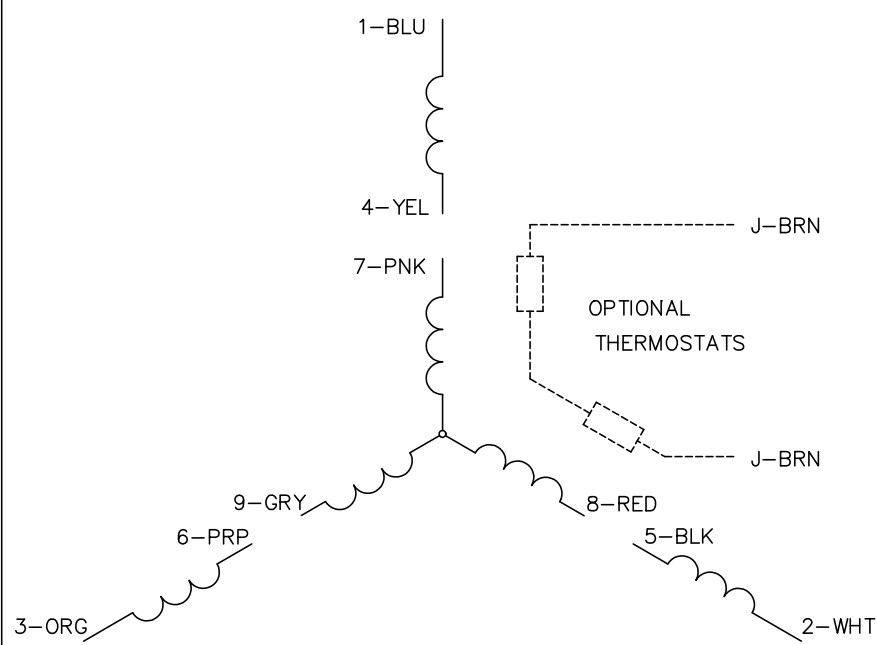
7.5 HP 3 PH 50 HZ 2902 RPM 380 V 0730M

TORQUES (LB-FT) : PO=48.46 PU=20.4 LR=28.32 LRA=70.44





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
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BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

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