ABB BALDOR RELIANCE

Customer information packet

DRX25764T

7.5HP, 1180//980RPM, 3PH, 60HZ, 254T, XPFC, F1
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
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	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 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	9.600 A @ 380.0 V
	23.000 A @ 208.0 V
	22.000 A @ 230.0 V
	19.200 A @ 190.0 V
	11.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT118
Layout	09LY-000-552
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	05-30-2019

Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.50 IN
Power Factor	70
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	09-0000-1380			**INV.TYPE**	PWM						
CAT.NO.	DRX25764T			**C HP FR**	60	**C HP TO**	90				
HP	7.5//5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	22/11//19.2/9.6			**MAG CUR**							
RPM	1180//980			**MX RPM**	1800						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	4.34				
FRAME	254T	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE				NEMA MG-1 PT.5,IP55						

AC Induction Motor Performance Data
Record # 57230
Typical performance - not guaranteed values

Winding: 09WGT118-R011	**Type:** 0954M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	33.3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			22/11	**Breakdown Torque**	106 LB-FT
R.P.M.			1180	**Pull-up Torque**	41.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	62.8 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	75.7 A
Service Factor (S.F.)			1	**No-load Current**	5.97 A
NEMA Nom. Eff.	91	**Power Factor**	70	**Line-line Res. @ 25ºC**	0.895 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
				Locked-rotor Power Factor	25.8
				Rotor inertia	4.34 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	34	53	64	70	74	75
Efficiency	81.3	88	89.6	89.7	89.4	88.3
Speed	1196	1192	1187	1183	1177	1171
Line amperes	6.46	7.57	9.19	11.2	13.3	15.9

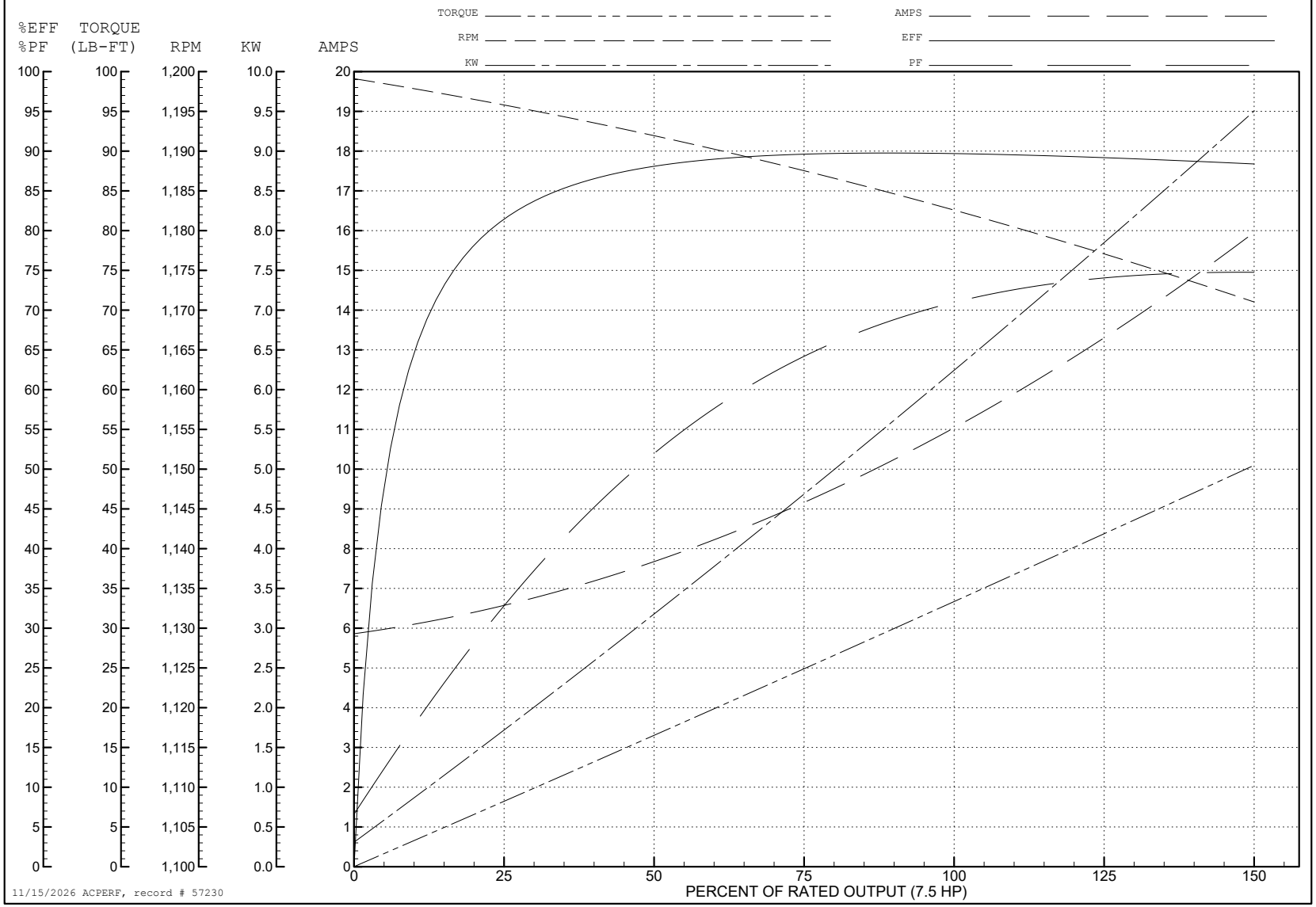
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WINDING # 09WGT118

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=106 PU=41.4 LR=62.8 LRA=75.7



AC Induction Motor Performance Data
Record # 75705
Typical performance - not guaranteed values

Winding: 09WGT118-R007	**Type:** 0954M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			7.5//5
Volts			230/460//190/380
Full Load Amps			22/11//19.2/9.6
R.P.M.			1180//980
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	91	**Power Factor**	70
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	26.49 LB-FT
Start Configuration	direct on line
Breakdown Torque	109 LB-FT
Pull-up Torque	43.5 LB-FT
Locked-rotor Torque	60.46 LB-FT
Starting Current	73.36 A
No-load Current	6 A
Line-line Res. @ 25ºC	0.895 Ω
Temp. Rise @ Rated Load	28°C
Temp. Rise @ S.F. Load	34°C
Locked-rotor Power Factor	28.9
Rotor inertia	4.34 LB-FT2

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	28	46	58	65	71	74
Efficiency	81.2	87.9	90.1	90.6	90.3	89.6
Speed	997	994	990	987	983	979
Line amperes	6.29	7.06	8.13	9.52	11.08	12.87

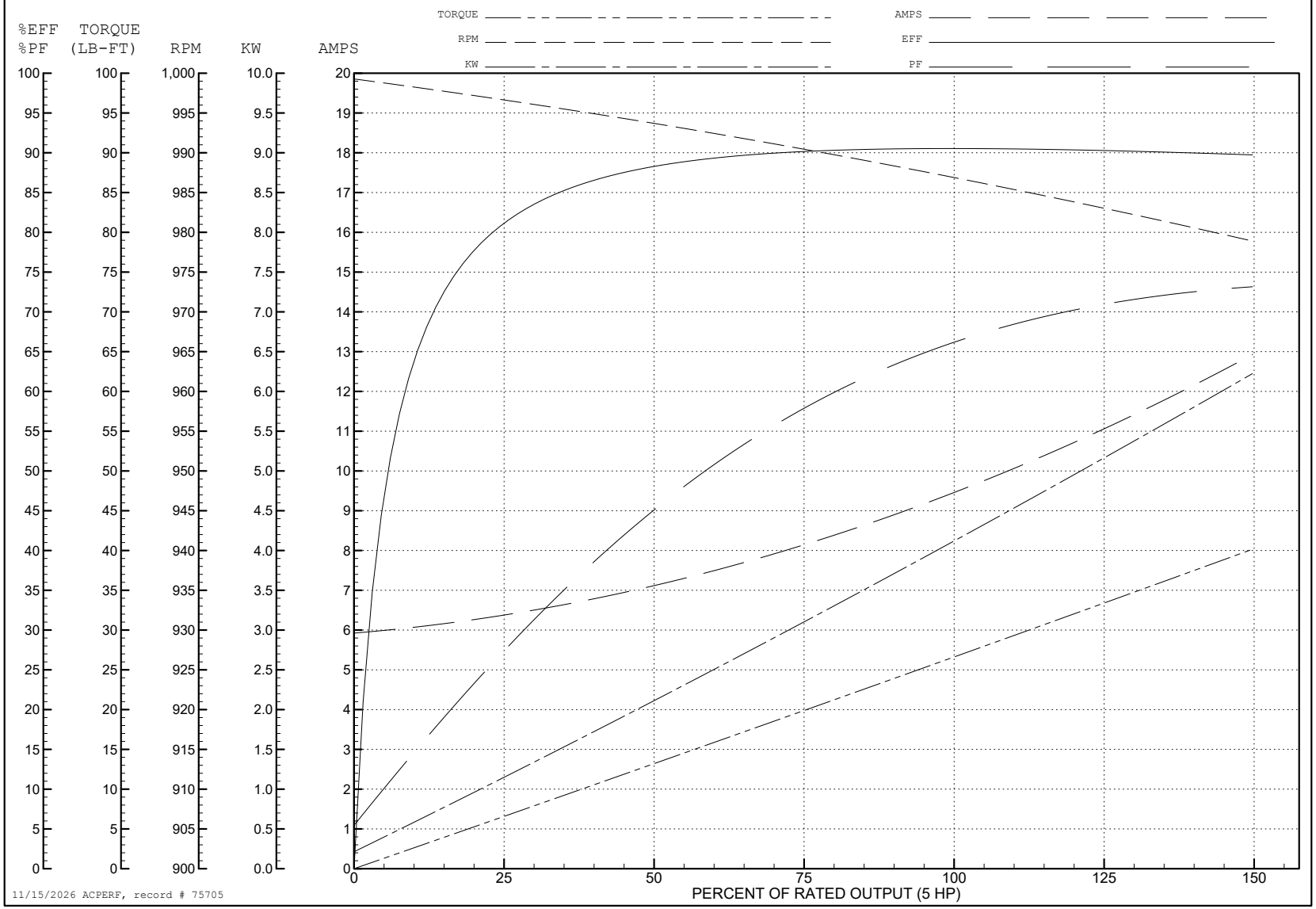
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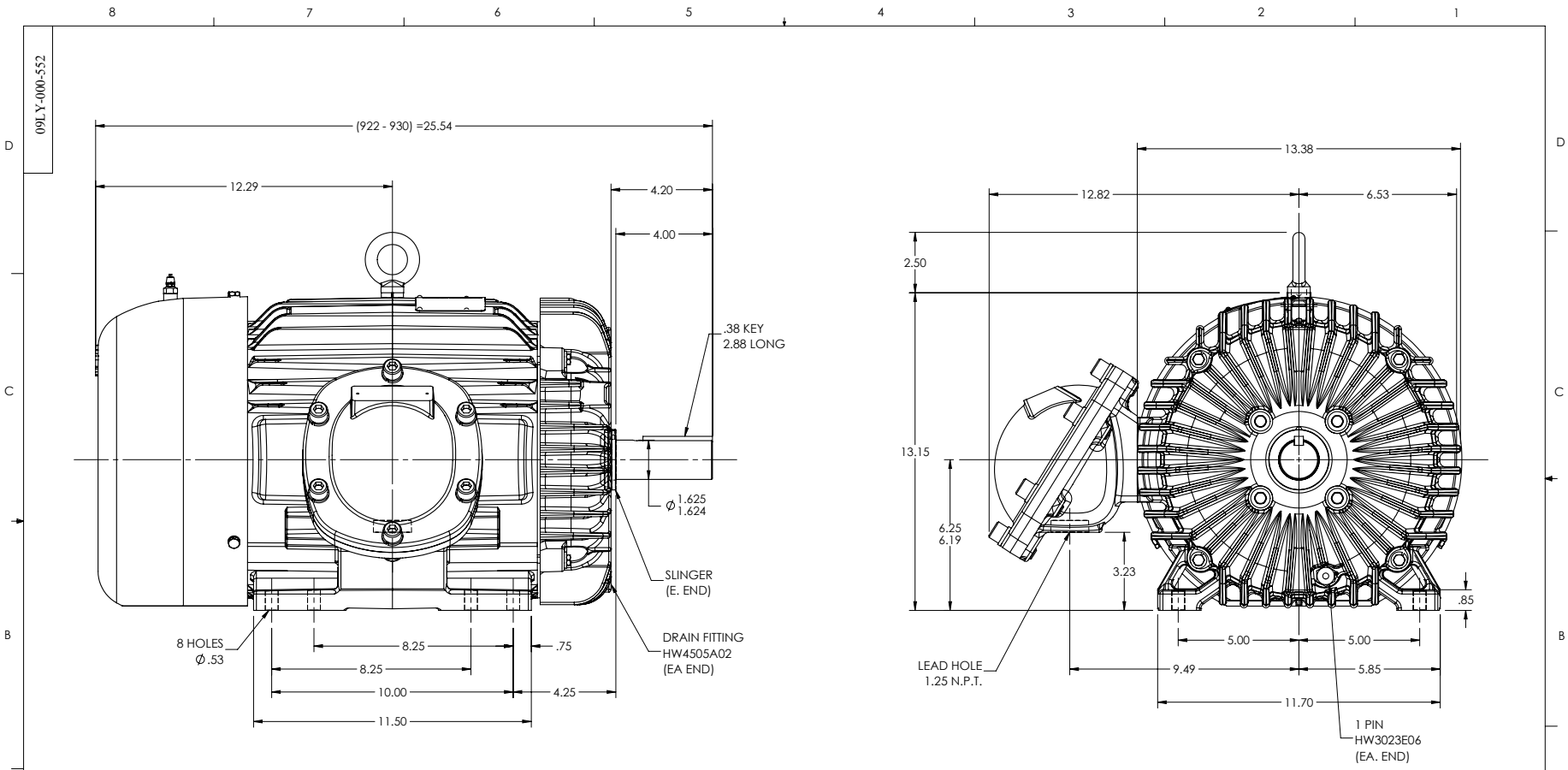
WINDING # 09WGT118

5 HP 3 PH 50 HZ 987 RPM 380 V 0954M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=109 PU=43.5 LR=60.46 LRA=73.36





CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

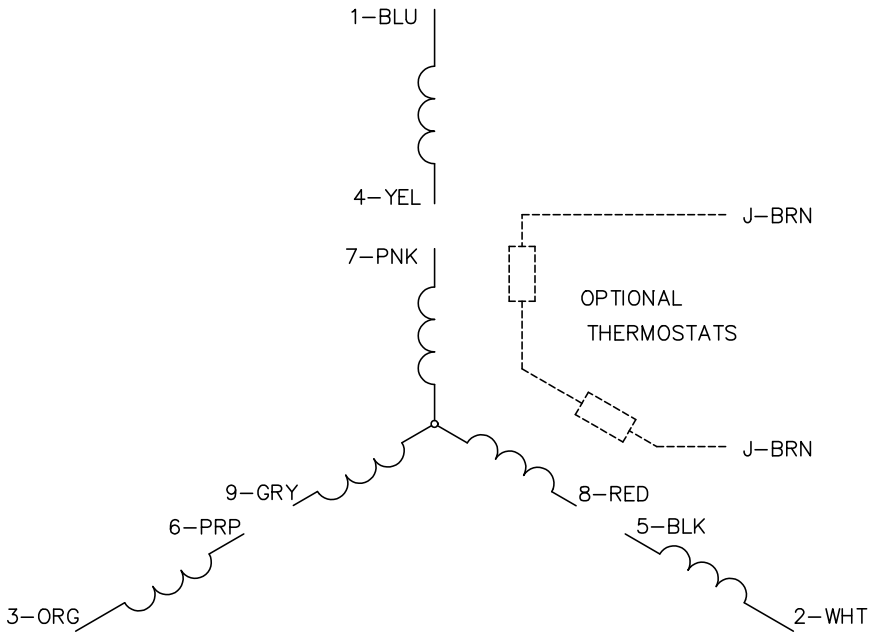
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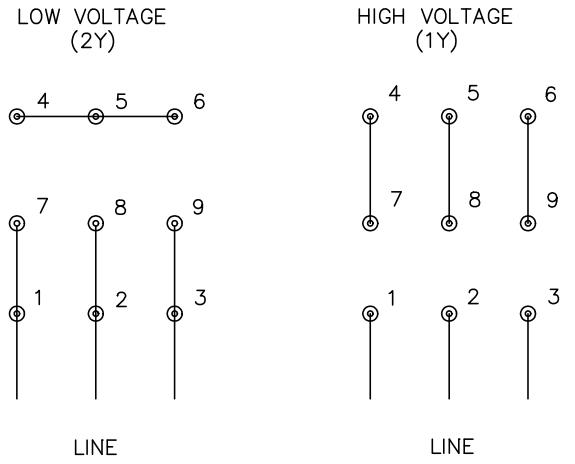
BALDOR - RELIANCE®

HOR XPFC 254-6T CL.I GP.C, DRILL RIG, SLINGERS, GRSRS

09LY-000-552

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.
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