

**BALDOR • RELIANCE**

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# Customer information packet

## JEWDM3545

1HP, 3450RPM, 3PH, 60HZ, 56J, 3520M, TEFC, F1, N

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	56J
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.600 A @ 460.0 V 3.200 A @ 230.0 V 3.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

## Part detail

Revision	P
Type	AC
Mech. spec.	35E2235
Base	
Status	PRD/A
Elec. spec.	35WGR710
Layout	35LYE2235
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-01-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.72 IN
Power Factor	74
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.40
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP1669L</b>									
<b>CAT.NO.</b>	JEWDM3545								
<b>SPEC.</b>	35E2235R710G1								
<b>HP</b>	1								
<b>VOLTS</b>	208-230/460								
<b>AMP</b>	3.3-3.2/1.6								
<b>RPM</b>	3450								
<b>FRAME</b>	56J		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.40	<b>CODE</b>	P	<b>DES</b>	B	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	78.5	<b>PF</b>	74						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6205	<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>							
<b>BLANK</b>	SFA 4.2-4/2								

## Parts list

Part number	Description	Quantity
SA303587	SA 35E2235R710G1	1.000 ea
RA290718	RA 35E2235R710G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3008A01G	SPL CONDUIT BOX, MACHINED GRAY	1.000 ea
35GS1022A03	GASKET BOX .125 THK WHITE NEOPRENE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122B00W	MASTER ODE,203 BRG,.683SH,.125NPT DRNS,F	1.000 ea
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 ea
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
35EP3307E00W	MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C	1.000 ea
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 ea
HW4600B49	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
HW4600B46	V-RING SLINGER 0.875 X 1.420 X .24 VITON	1.000 ea
35FH4005A55	IEC FH NO GRSSR,3 MTG HOLE NO DIMPLES,	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
WD4100A10	465 NIAGARA PLUG (SO ELEC),FOR 1.093 DIA	1.000 ea
35CB4522	35 LIPPED CB LID PRIMED	1.000 ea
35GS1030A02	35 GS FOR CB LID - WHITE NEOPRENE	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
RM1010A12	.437 I.D. 1" VINYL CAP (SHORT) MOCAP	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
MG1025W01	WILKOFAS, 781.01, SIGNAL WHITE #9003	0.017 ga
MG1025Z02	ACTIVATOR WILKOFAS 060.02HF	0.010 ga

HA3100S08	THRUBOLT 7.375LG SS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A06	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000002	ZRTG PE ASSEMBLY	1.000 ea

**AC Induction Motor Performance Data**

Record # 51666

Typical performance - not guaranteed values

<b>Winding: 35WGR710-R026</b>		<b>Type: 3520M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	1	<b>Full Load Torque</b>	1.48 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	3.3-3.2/1.6	<b>Breakdown Torque</b>	9.7 LB-FT		
<b>R.P.M.</b>	3450	<b>Pull-up Torque</b>	6.5 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	7.5 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	P	<b>Starting Current</b>	16.4 A	
<b>Service Factor (S.F.)</b>		1.4	<b>No-load Current</b>	0.84 A	
<b>NEMA Nom. Eff.</b>	78.5 <b>Power Factor</b>	74	<b>Line-line Res. @ 25°C</b>	10.6 Ω	
<b>Rating - Duty</b>		40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	34°C	
<b>S.F. Amps</b>		4.2-4/2	<b>Temp. Rise @ S.F. Load</b>	45°C	
			<b>Locked-rotor Power Factor</b>	56.5	
			<b>Rotor inertia</b>	0.0548 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 1 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	39	57	68	74	79	81	80
<b>Efficiency</b>	63.3	74	78.7	80	80.9	80.5	80.7
<b>Speed</b>	3568	3547	3524	3498	3473	3441	3454
<b>Line amperes</b>	0.97	1.12	1.32	1.56	1.8	2.09	1.97



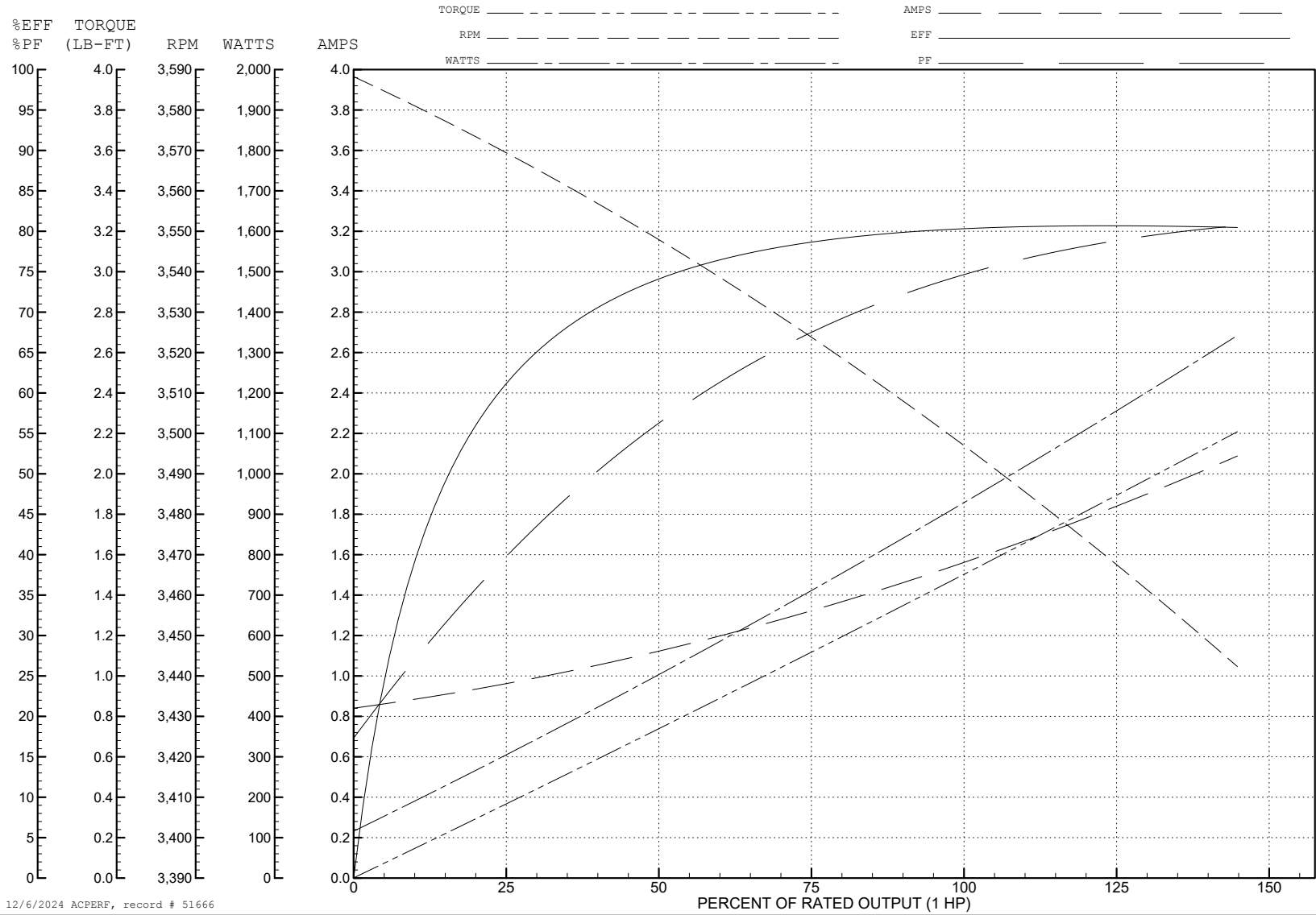
ABB Motors and Mechanical Inc.

WINDING # 35WGR710

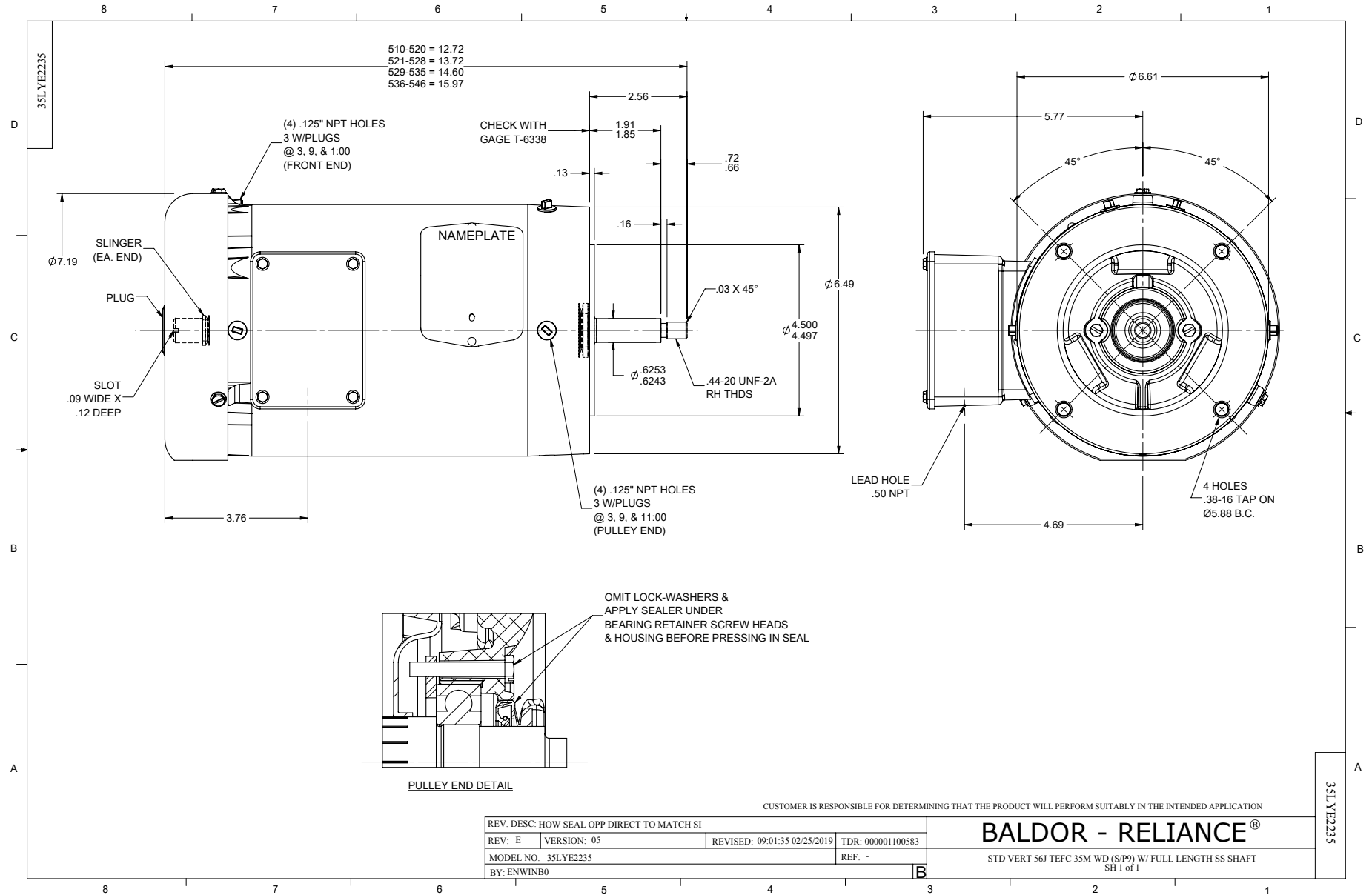
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3520M

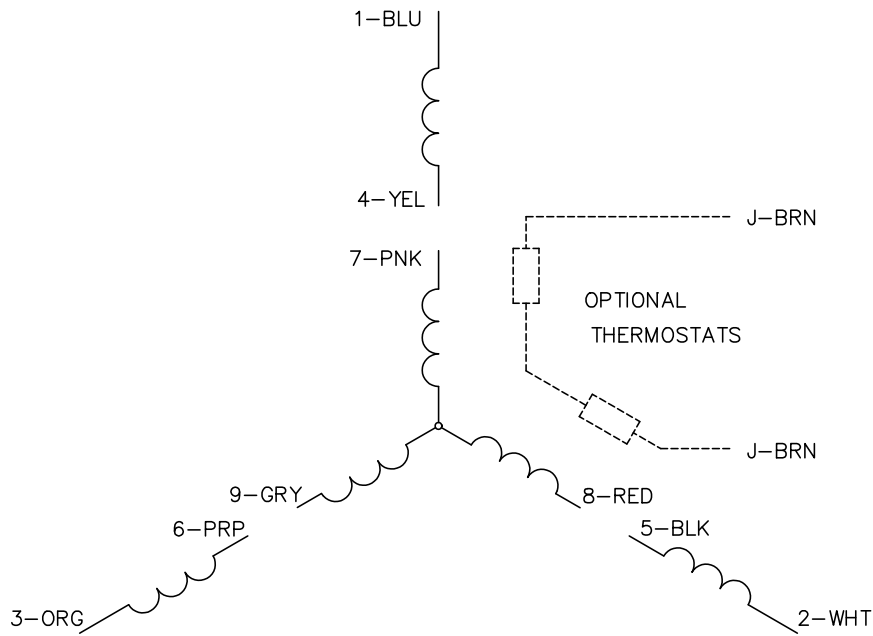
TORQUES (LB-FT): PO=9.7 PU=6.5 LR=7.5 LRA=16.4



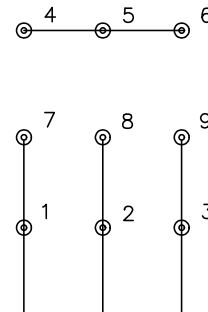
12/6/2024 ACPERF, record # 51666



CD0005

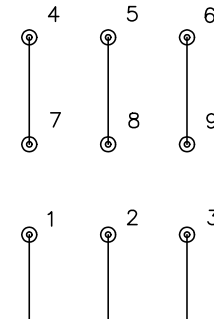


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS