BALDOR • RELIANCE

Product Information Packet

EM3218T

5HP,1760RPM,3PH,60HZ,184T,3640M,OPSB,F1

Part Detail

Revision:	AA	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	36WGS270	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	36G548	**Layout:**	36LYG548	**Poles:**	04	**Created Date:**	03-24-2010
Base:	RG	**Eff. Date:**	04-04-2019	**Leads:**	9#16		

Specs

Catalog Number:	EM3218T	**Heater Indicator:**	No Heater
Enclosure:	OPSB	**Insulation Class:**	F
Frame:	184T	**Inverter Code:**	Inverter Ready
Frame Material:	Steel	**KVA Code:**	J
Motor Letter Type:	Three Phase	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	5.000 HP @ 60 HZ	**Locked Bearing Indicator:**	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Motor Lead Quantity/Wire Size:**	9 @ 16 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
	460.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3640M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	UR	**Power Factor:**	80
	CSA EEV	**Product Family:**	General Purpose
	CSA	**Pulley End Bearing Type:**	Ball
Auxillary Box:	No Auxillary Box	**Pulley Face Code:**	Standard
Auxillary Box Lead Termination:	None	**Pulley Shaft Indicator:**	Standard
Base Indicator:	Rigid	**Rodent Screen:**	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Shaft Extension Location:**	Pulley End

Blower:	None	**Shaft Ground Indicator:**	No Shaft Grounding
Current @ Voltage:	13.200 A @ 230.0 V	**Shaft Rotation:**	Reversible
	14.000 A @ 208.0 V	**Shaft Slinger Indicator:**	No Slinger
	6.600 A @ 460.0 V	**Speed Code:**	Single Speed
Design Code:	B	**Motor Standards:**	NEMA
Drip Cover:	No Drip Cover	**Starting Method:**	Direct on line
Duty Rating:	CONT	**Thermal Device - Bearing:**	None
Electrically Isolated Bearing:	Not Electrically Isolated	**Thermal Device - Winding:**	None
Feedback Device:	NO FEEDBACK	**Vibration Sensor Indicator:**	No Vibration Sensor
Front Face Code:	Standard	**Winding Thermal 1:**	None
Front Shaft Indicator:	None	**Winding Thermal 2:**	None

Nameplate NP3553LUA

CAT.NO.	EM3218T							
SPEC.	36G548S270G1							
HP	5							
VOLTS	230/460							
AMPS	13.2/6.6							
RPM	1750							
FRAME	184T	**HZ**	60			**PH**	3	
SF	1.15	**CODE**	J	**DES**	B	**CLASS**	F	
NEMA NOM. EFF	89.5	**PF**	80					
RATING	40C AMB-CONT							
CC	010A			**USABLE AT 208V**	14			
DE	6206	**ODE**	6205					
ENCL	OPSB	**SN**						
VPWM INVERTER READY								
CT30-60(2:1) VT3-60(20:1)								
USABLE AT	50HZ 5HP 190/380V 15.6/7.8A							SF1.0

AC Induction Motor Performance Data
Record # 53360
Typical performance - not guaranteed values

Winding: 36WGS270-R004 **Type:** 3640M **Enclosure:** OPSB

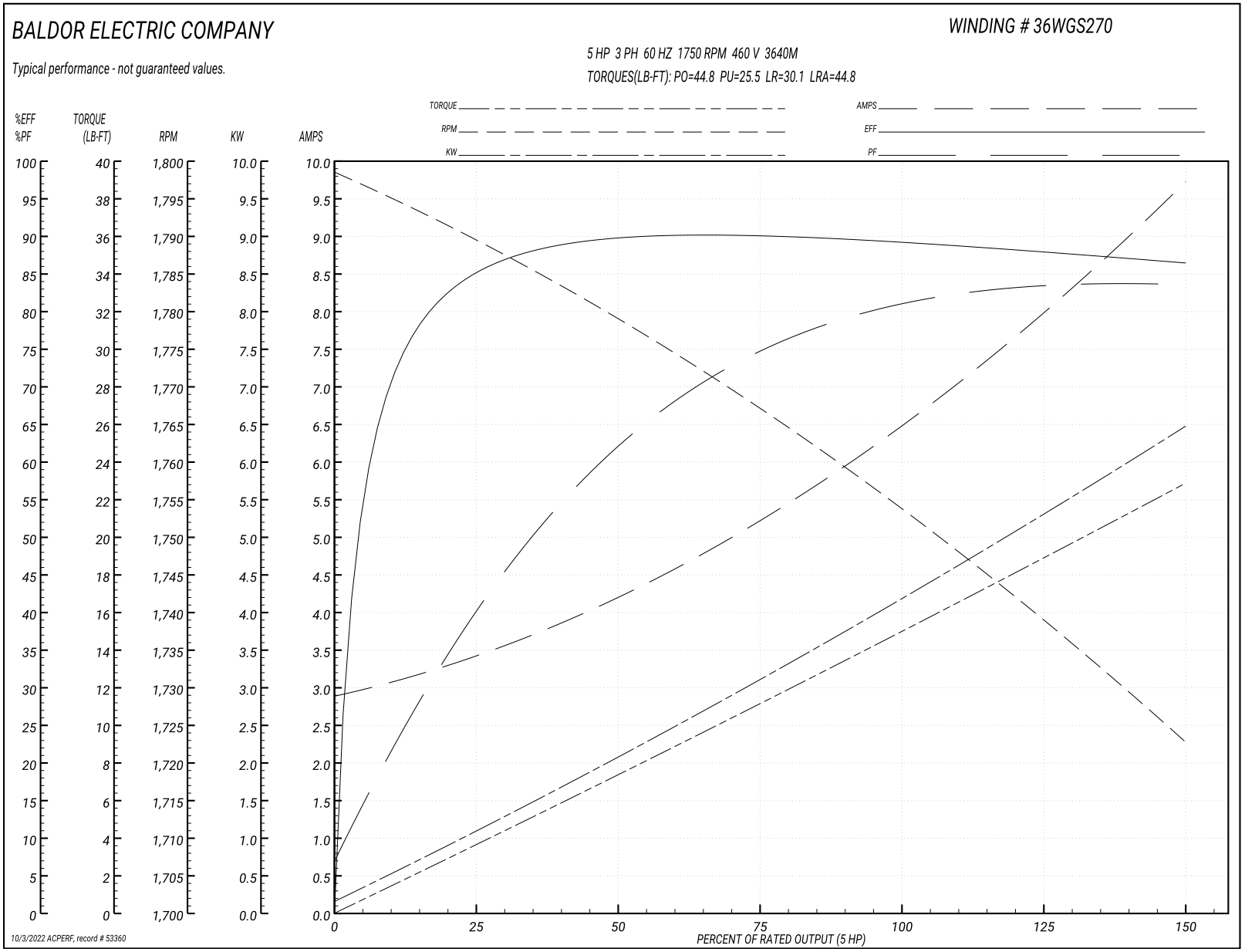
Nameplate Data		
Rated Output (HP)		5
Volts		230/460
Full Load Amps		13.2/6.6
R.P.M.		1750
Hz	60 **Phase**	3
NEMA Design Code	B **KVA Code**	J
Service Factor (S.F.)		1.15
NEMA Nom. Eff.	89.5 **Power Factor**	80
Rating - Duty		40C AMB-CONT
S.F. Amps		

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	15.05 LB-FT
Start Configuration	direct on line
Breakdown Torque	44.8 LB-FT
Pull-up Torque	25.5 LB-FT
Locked-rotor Torque	30.1 LB-FT
Starting Current	44.8 A
No-load Current	2.97 A
Line-line Res. @ 25ºC	2.632 Ω
Temp. Rise @ Rated Load	44°C
Temp. Rise @ S.F. Load	56°C
Locked-rotor Power Factor	41
Rotor inertia	0.372 LB-FT2

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	85.4	89.7	90.2	89.5	88.2	86.4	88.7
Speed	1789.2	1778.5	1766.9	1753.8	1739.5	1722.1	1745
Line amperes	3.33	4.14	5.26	6.59	8.05	9.68	7.47

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data
Record # 86108
Typical performance - not guaranteed values

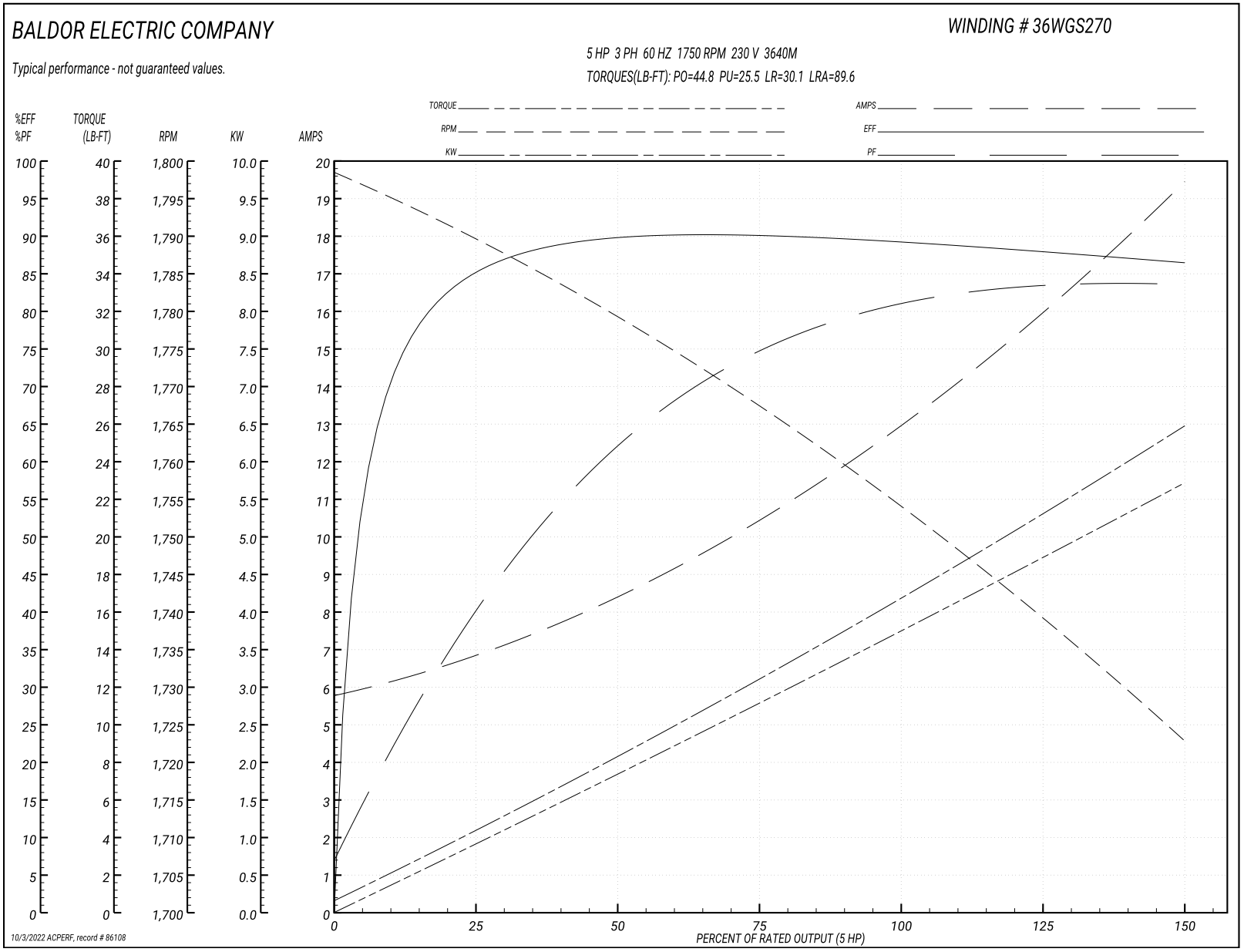
Winding: 36WGS270-R004	**Type:** 3640M	**Enclosure:** OPSB

Nameplate Data			**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)		5	**Full Load Torque**	15.05 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		13.2/6.6	**Breakdown Torque**	44.8 LB-FT
R.P.M.		1750	**Pull-up Torque**	25.5 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	30.1 LB-FT
NEMA Design Code	B **KVA Code**	J	**Starting Current**	89.6 A
Service Factor (S.F.)		1.15	**No-load Current**	5.94 A
NEMA Nom. Eff.	89.5 **Power Factor**	80	**Line-line Res. @ 25ºC**	0.656 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps			**Temp. Rise @ S.F. Load**	54°C
			Locked-rotor Power Factor	40.8
			Rotor inertia	0.372 lb-ft²

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	80	83	84	82
Efficiency	84.3	89.2	89.7	89.6	88.2	86.2	88.8
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	6.66	8.28	10.52	13.18	16.1	19.36	14.9

Performance Graph at 230V, 60Hz, 5.0HP Typical performance - Not guaranteed values



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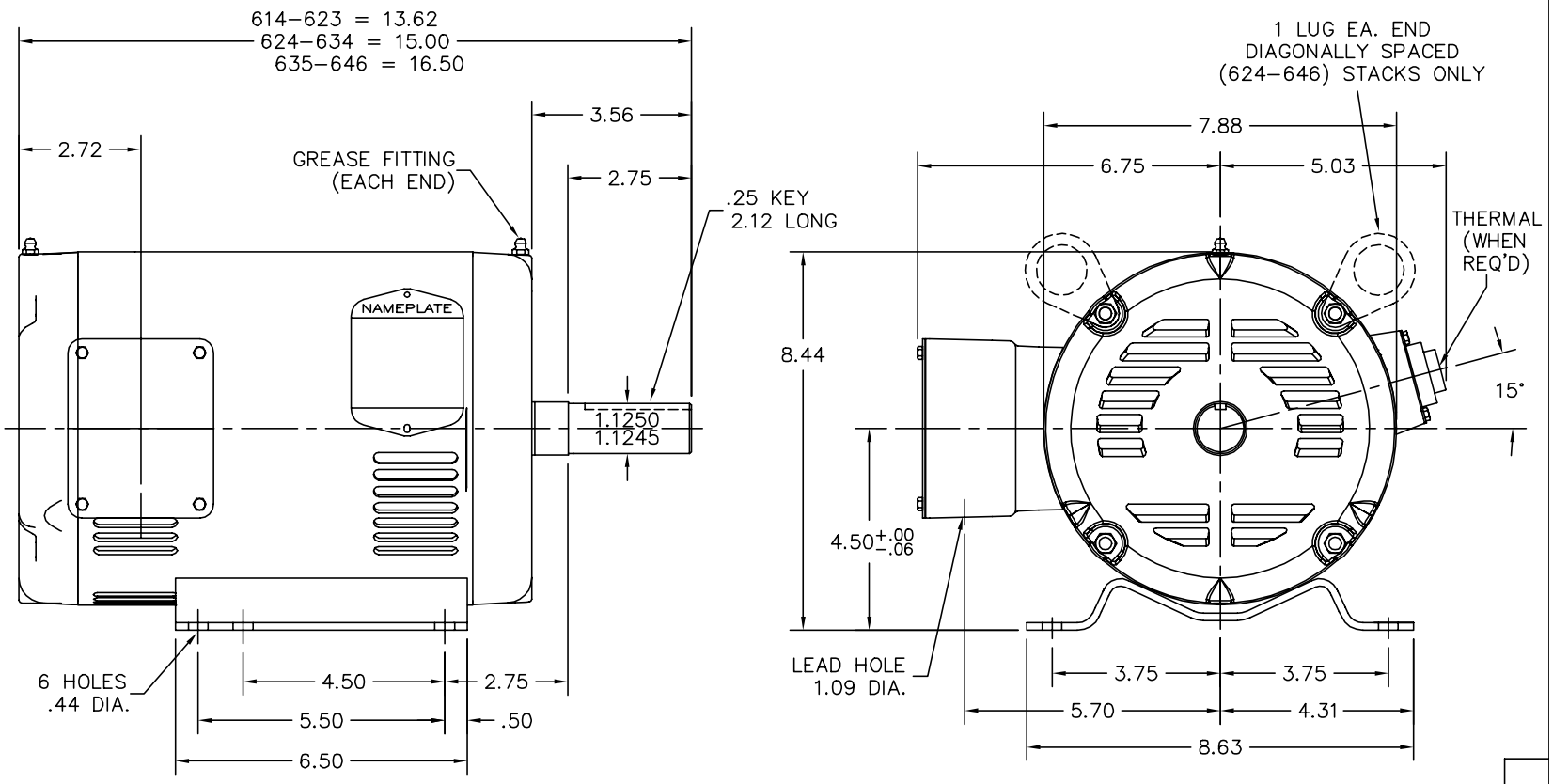

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CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

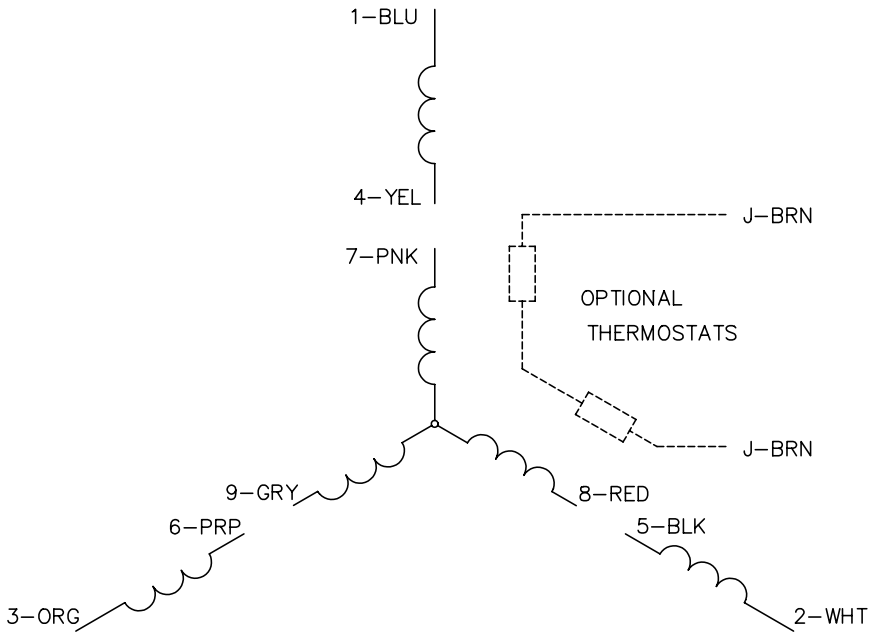
REV. DESC: FREP: WAS 36FE3200A01, NOW 36EP3204B00		
REV. LTR: H	VERSION: 05	TDR: 000001099959
FILE: \AAA\00017\098	REVISED: 08:22:25 04/03/2019	BY: FPJEFG0
MTL: –		

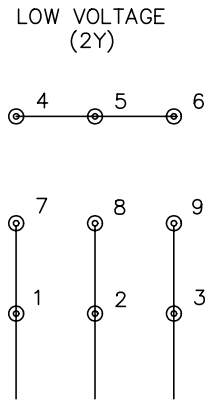
BALDOR - RELIANCE®

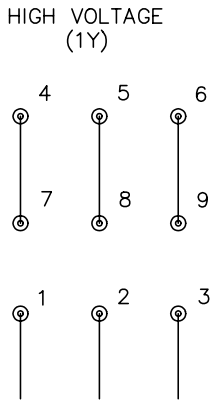
STD HORZ 182–4T OPSB 36M SUPER–E

SH 1 of 1

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			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

CD0005