

BALDOR® • RELIANCE

Product Information Packet

EM3116T

1HP,1760RPM,3PH,60HZ,143T,3519M,OPSB,F1

Part Detail							
Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3519M	Elec. Spec:	35WGM492	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	35L405	Layout:	35LYL405
Frame:	143T	Mounting:	F1	Poles:	04	Created Date:	08-02-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	11-17-2015
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1259L							
CAT.NO.	EM3116T						
SPEC.	35L405M492G1						
HP	1						
VOLTS	230/460						
AMP	3/1.5						
RPM	1760						
FRAME	143T	HZ	60	PH	3		
SER.F.	1.15	CODE	L	DES	B	CL	F
NEMA-NOM-EFF	85.5	PF	71				
RATING	40C AMB-CONT						
CC	010A	USABLE AT 208V	3.1				
DE	6205	ODE	6203				
ENCL	OPSB	SN					

AC Induction Motor Performance Data

Record # 53095 - Typical performance - not guaranteed values

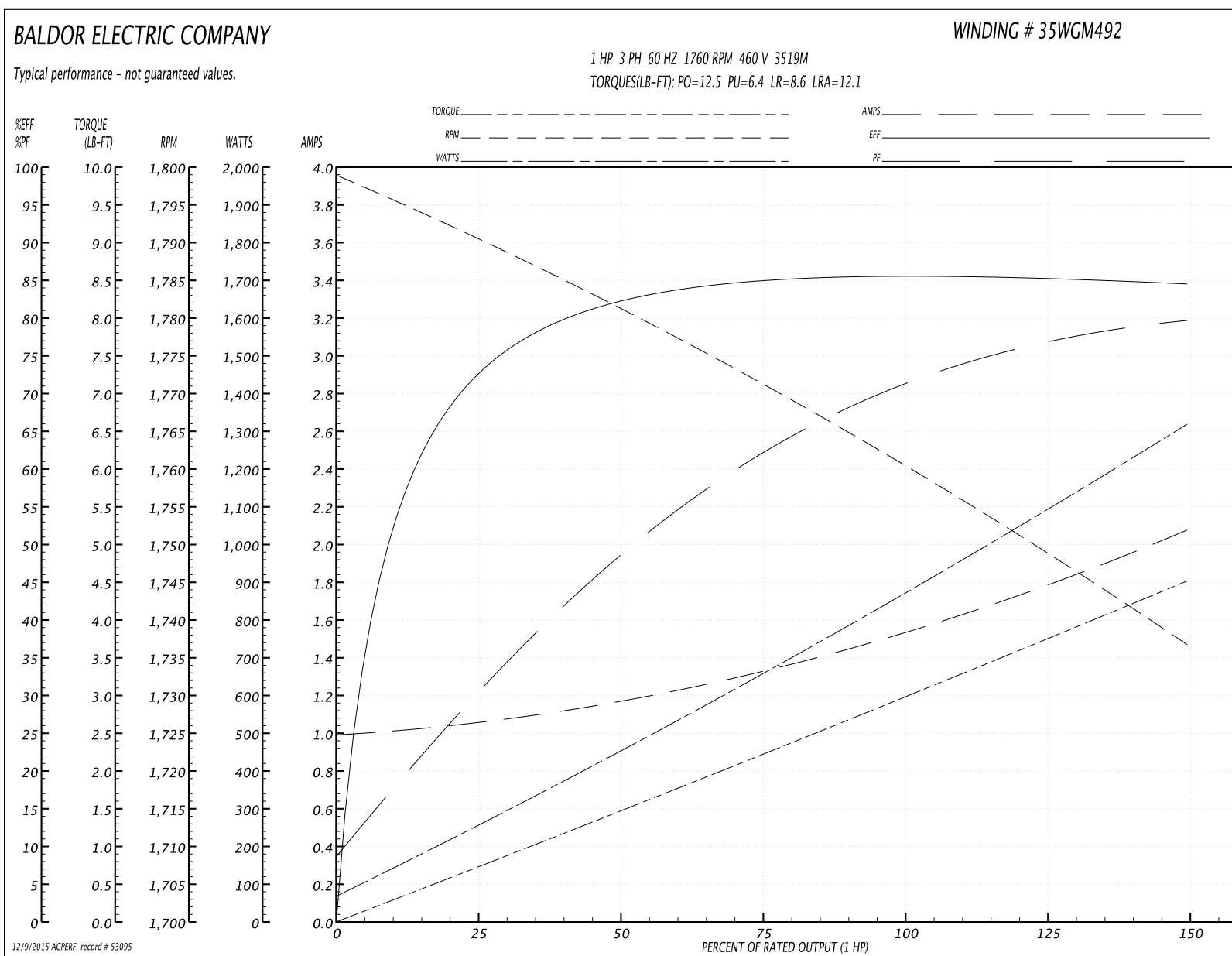
Winding: 35WGM492-R050	Type: 3519M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	2.97 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	3/1.5			Breakdown Torque	12.5 LB-FT
R.P.M.	1760			Pull-up Torque	6.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	8.6 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	12.1 A
Service Factor (S.F.)	1.15			No-load Current	1 A
NEMA Nom. Eff.	85.5	Power Factor	71	Line-line Res. @ 25°C	16.05 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	36°C
S.F. Amps				Temp. Rise @ S.F. Load	43°C
				Rotor inertia	0.112 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	49	62	71	77	80	75
Efficiency	72.2	82.1	84.8	85.6	85.3	84.4	85.4
Speed	1790.9	1781.2	1771.5	1760.7	1749.1	1736.6	1754
Line amperes	1.05	1.15	1.33	1.54	1.79	2.07	1.69

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 53391 - Typical performance - not guaranteed values

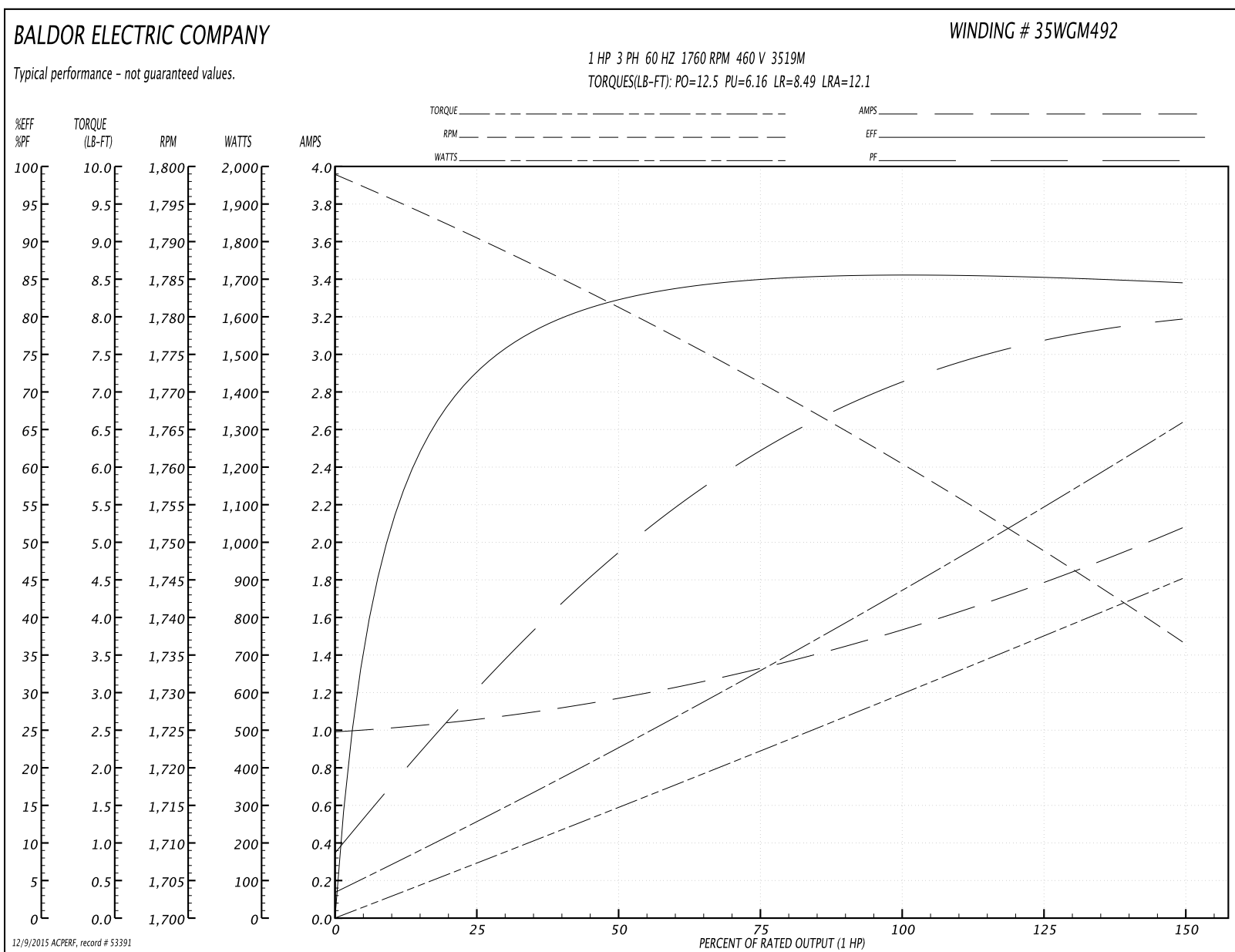
Winding: 35WGM492-R050	Type: 3519M	Enclosure: OPEN
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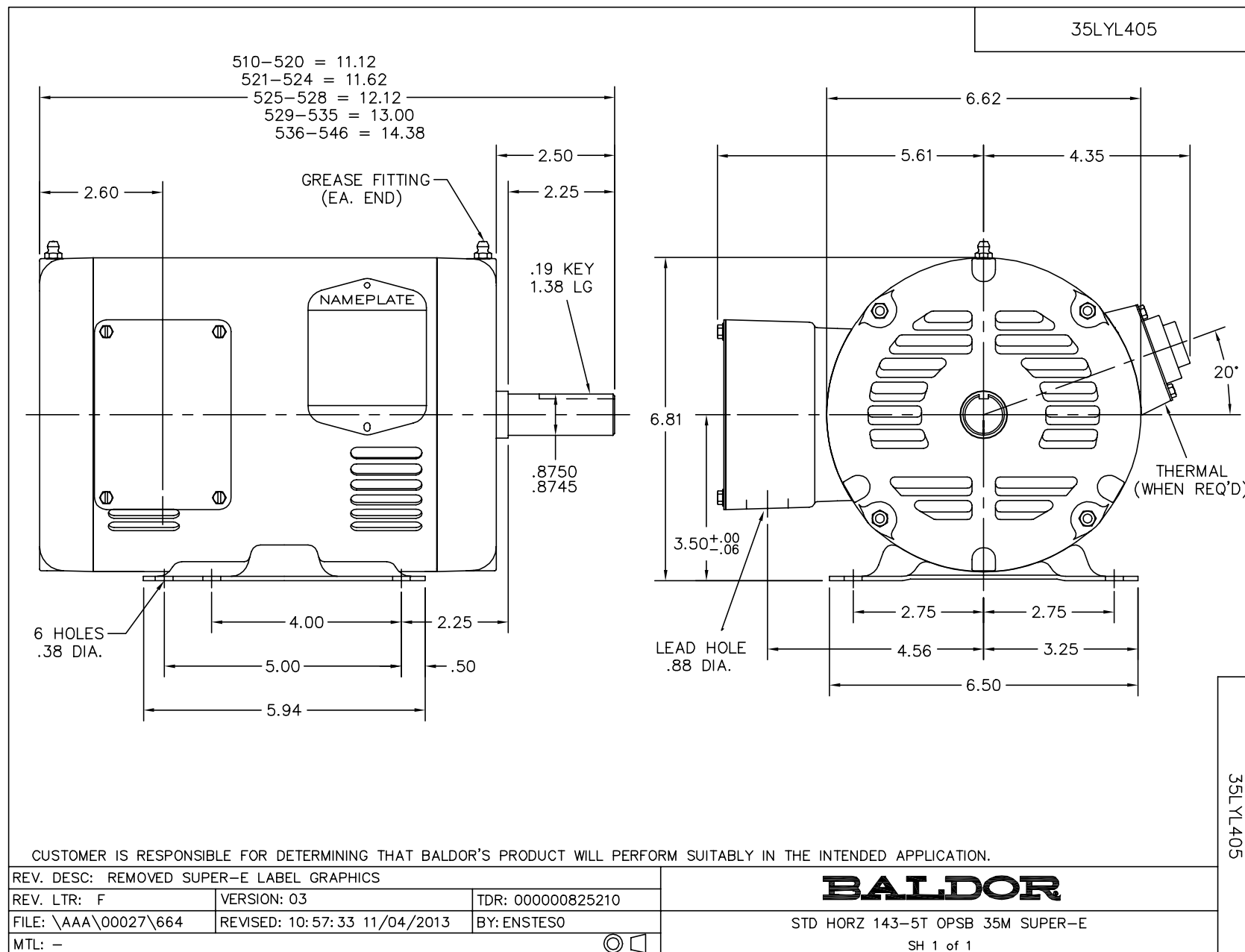
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	2.97 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	3/1.5			Breakdown Torque	12.5 LB-FT
R.P.M.	1760			Pull-up Torque	6.16 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	8.49 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	12.1 A
Service Factor (S.F.)	1.15			No-load Current	1 A
NEMA Nom. Eff.	85.5	Power Factor	71	Line-line Res. @ 25°C	16.05 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	20°C
S.F. Amps				Temp. Rise @ S.F. Load	24°C
				Rotor inertia	0.112 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1 HP

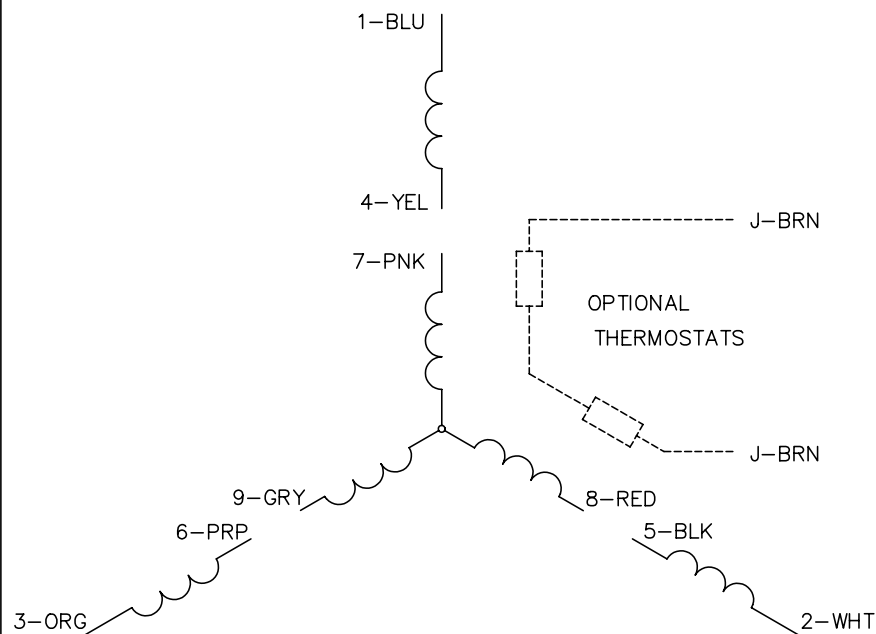
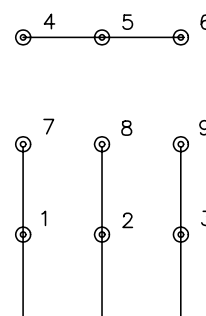
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	49	62	71	77	80	75
Efficiency	72.2	82.1	84.8	85.6	85.3	84.4	85.4
Speed	1790.9	1781.2	1771.5	1760.7	1749.1	1736.6	1754
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Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values

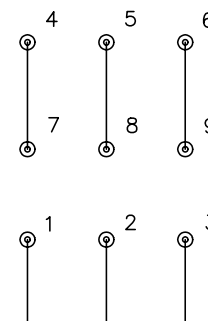




CD0005

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.

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