

BALDOR® • RELIANCE

Product Information Packet

CEM7037T

2//1.5HP,1755//1455RPM,3PH,60//50HZ,145T

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3530M	Elec. Spec:	35WGM494	CD Diagram:	CD0005
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	35E377	Layout:	35LYE377
Frame:	145TC	Mounting:	F1	Poles:	04	Created Date:	07-30-2010
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	01-19-2017
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1426XPSLEV

NO.		CC	010A
SER.			
SPEC.	35E377M494G1		
CAT.NO.	CEM7037T		
HP	2//1.5	T. CODE	T3C
VOLTS	230/460//190/380		
AMPS	5.8/2.9//5.6/2.8		
RPM	1755//1455		
HZ	60//50	PH	3
SER.F.	1.00	DES	B
RATING	40C AMB-CONT	CL	B
FRAME	145TC	CODE	L
USABLE AT 208V	6	PF	73
BLANK		NEMA-NOM-EFF	86.5

Parts List		
Part Number	Description	Quantity
SA200632	SA 35E377M494G1	1.000 EA
RA187943	RA 35E377M494G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
35CB3001A02SP	EXPL PROOF CONDUIT BOX, 3/4"PIPE TAP LEA	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #8 SCREW	1.000 EA
35EP3700A01SP	FR ENDPLATE, XPFC	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3702A01SP	PU EP-205 BRG-35X-56C-143-5TC	1.000 EA
51XN1032A18	10-32 X 1 1/8 HX WS SL SR (ESKAY)	2.000 EA
HA3013A01	1/2-20X5/8 SPL.HX BOLT	2.000 EA
HW3021C06	3/32 DI X .625 PIN (F/S)	2.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 EA
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3104A10	THRUBOLT, 5/16-18 X 10.25	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP1426XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 33835 - Typical performance - not guaranteed values

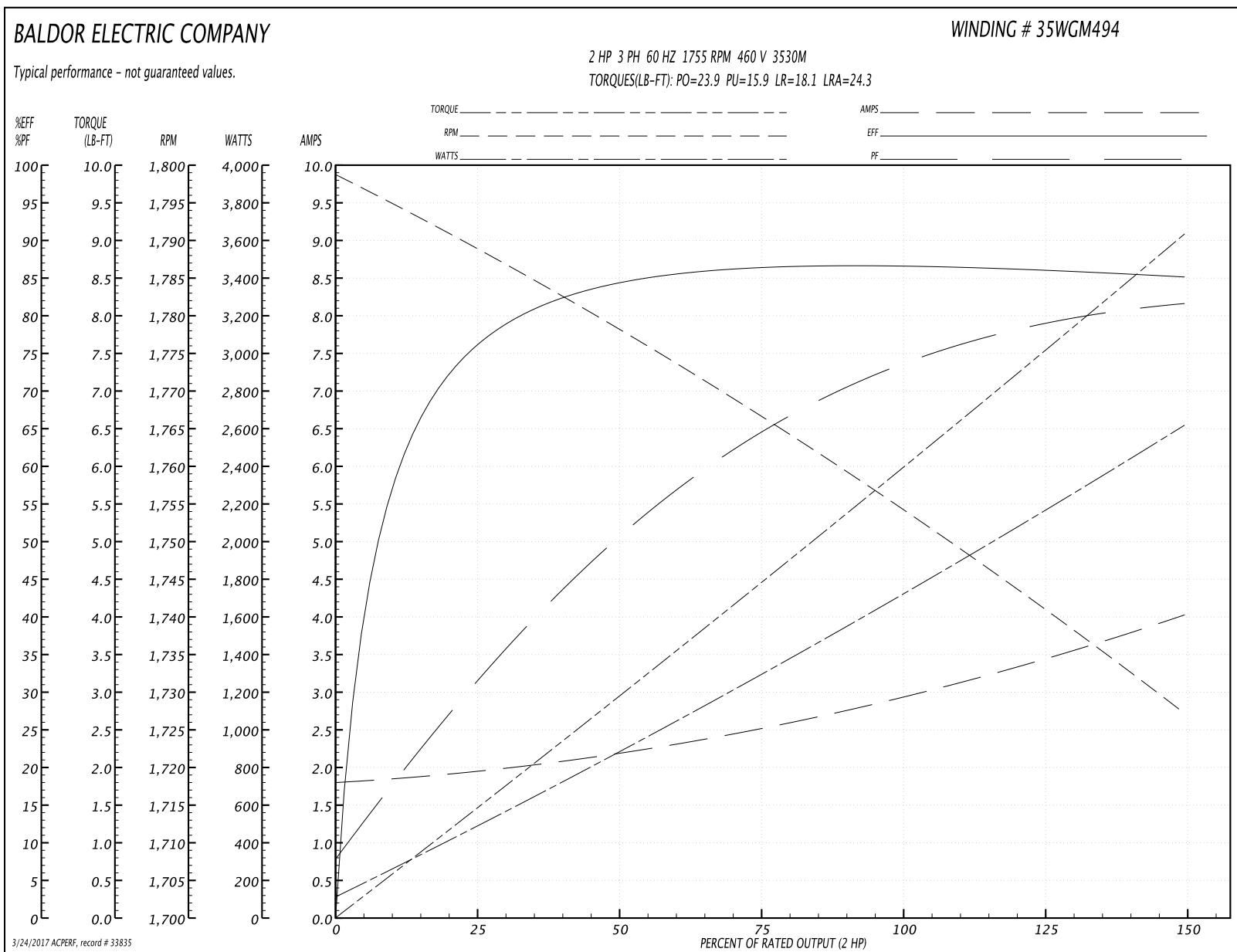
Winding: 35WGM494-R004	Type: 3530M	Enclosure: XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2//1.5			Full Load Torque	5.95 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	5.8/2.9//3.6/2.8			Breakdown Torque	23.9 LB-FT
R.P.M.	1755//1455			Pull-up Torque	15.9 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	18.1 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	24.3 A
Service Factor (S.F.)	1.15			No-load Current	1.82 A
NEMA Nom. Eff.	86.5	Power Factor	73	Line-line Res. @ 25°C	7.42 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	61°C
S.F. Amps				Temp. Rise @ S.F. Load	73°C
				Locked-rotor Power Factor	50
				Rotor inertia	0.177 LB-FT ²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	64	73	79	82	77
Efficiency	75.4	84	86.5	86.7	86.1	85.1	86.3
Speed	1789	1778	1767	1755	1741	1727	1747
Line amperes	1.92	2.17	2.51	2.94	3.46	4.01	3.25

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 33836 - Typical performance - not guaranteed values

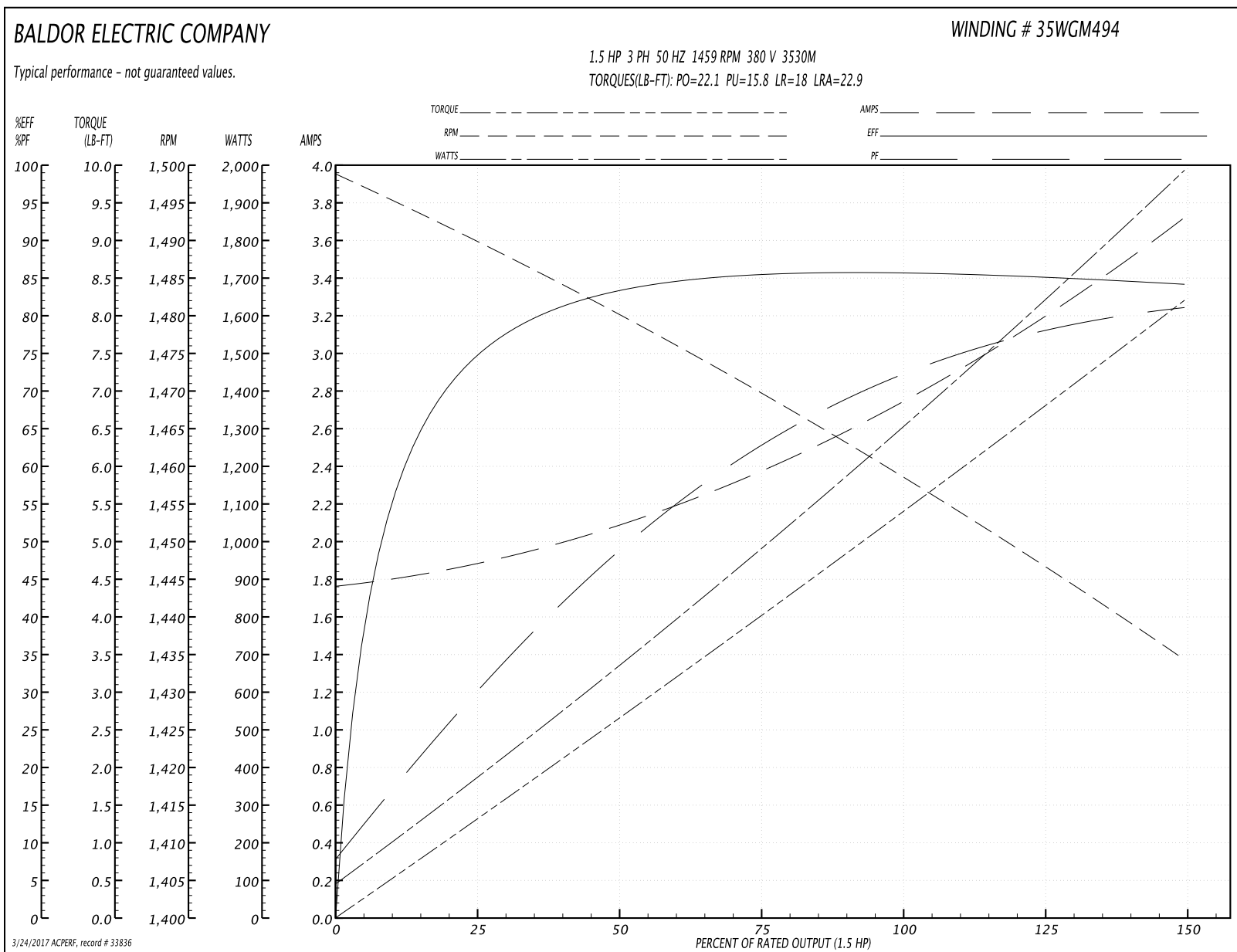
Winding: 35WGM494-R005	Type: 3530M	Enclosure: XPFC
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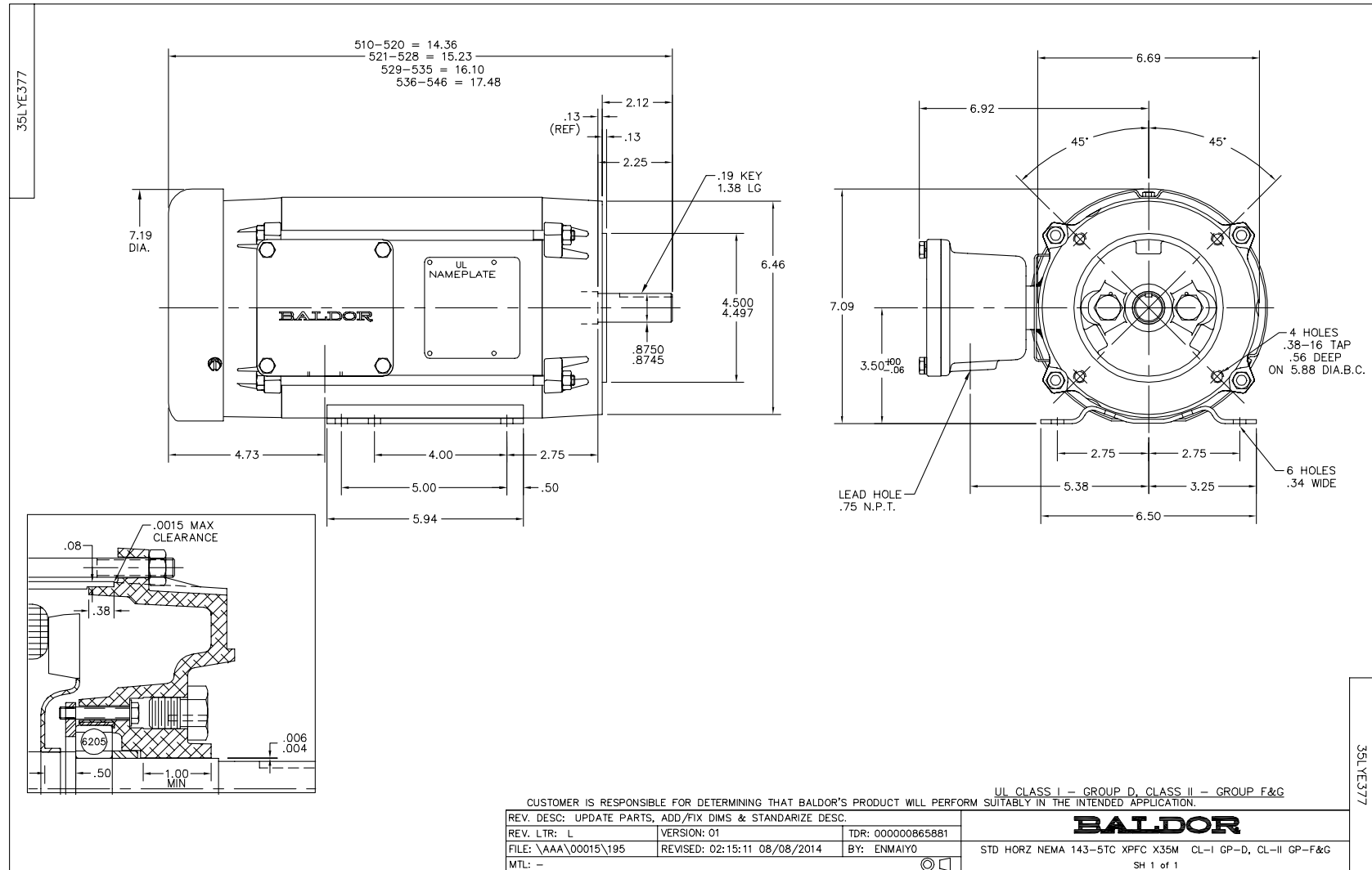
Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	2//1.5			Full Load Torque	5.37 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	5.8/2.9//3.6/2.8			Breakdown Torque	22.1 LB-FT
R.P.M.	1755//1455			Pull-up Torque	15.8 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	18 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	22.9 A
Service Factor (S.F.)	1			No-load Current	1.78 A
NEMA Nom. Eff.	86.5	Power Factor	73	Line-line Res. @ 25°C	7.42 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	55°C
				Locked-rotor Power Factor	55
				Rotor inertia	0.177 LB-FT ²

Load Characteristics 380 V, 50 Hz, 1.5 HP

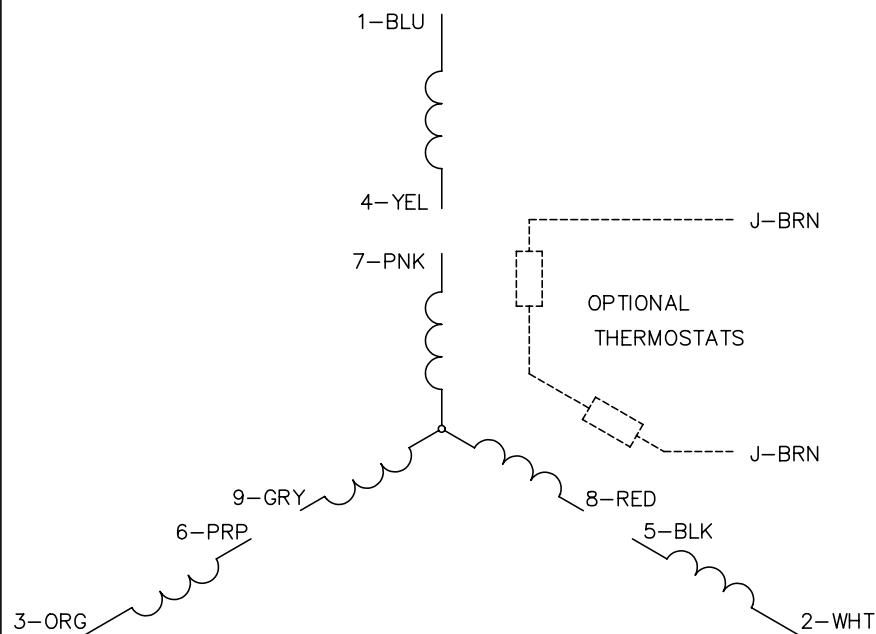
% of Rated Load	25	50	75	100	125	150
Power Factor	30	49	62	72	78	81
Efficiency	74.2	82.9	85.5	85.8	85.2	84.1
Speed	1490	1480	1470	1459	1447	1434
Line amperes	1.86	2.07	2.37	2.75	3.21	3.71

Performance Graph at 380V, 50Hz, 1.5HP Typical performance - Not guaranteed values

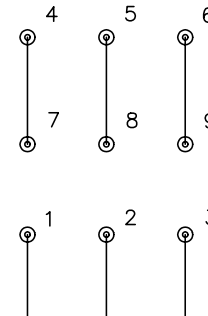




CD0005

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