

BALDOR® • RELIANCE

Product Information Packet

M3212T

5HP,3450RPM,3PH,60HZ,182T,3535M,OPSB,F1

Part Detail							
Revision:	X	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3535M	Elec. Spec:	35WGT481	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	35L411	Layout:	35LYL411
Frame:	182T	Mounting:	F1	Poles:	02	Created Date:	06-22-2007
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	11-22-2010
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.	M3212T									
SPEC.	35L411T481H1									
HP	5									
VOLTS	208-230/460									
AMP	13-12.2/6.1									
RPM	3450									
FRAME	182T	HZ			60	PH		3		
SER.F.	1.15	CODE			J	DES		B	CLASS	B
NEMA-NOM-EFF	85.5	PF			89					
RATING	40C AMB-CONT									
CC	010A	USABLE AT 208V			13					
DE	6206	ODE			6203					
ENCL	OPSB	SN								

Parts List		
Part Number	Description	Quantity
SA027032	SA 35L411T481H1	1.000 EA
RA023081	RA 35L411T481H1	1.000 EA
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB CASTING W/1.09 DIA. LEAD HOLE @ 6:	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
HW3001B01	003SS CUP WASHER, FOR #8 SCREW	1.000 EA
35EP3201A01	STD FR ENDPLATE-OPEN-203 BRG W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3207A01	PU ENDPLATE, MACH	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501E16	3KEY, 1/4 SQ X 1.750	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA
HA3100A24	THRUBOLT 10-32 X 10.625	4.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	2.000 EA
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
36PA1000	PACK GROUP W/LB5001	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-1409	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 9422 - Typical performance - not guaranteed values

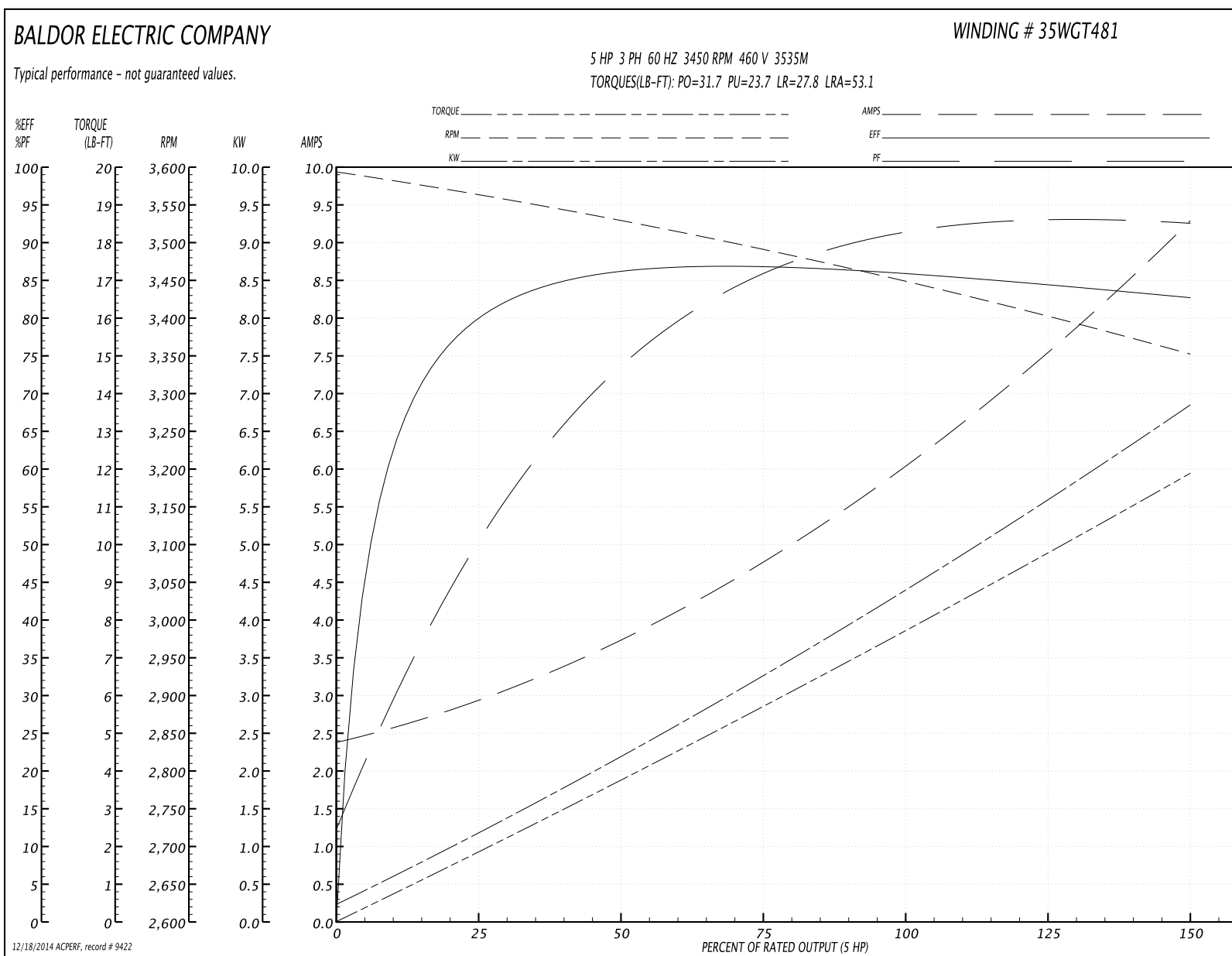
Winding: 35WGT481-R001	Type: 3535M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	7.807 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	13-12.2/6.1			Breakdown Torque	31.7 LB-FT
R.P.M.	3450			Pull-up Torque	23.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	27.8 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	53.1 A
Service Factor (S.F.)	1.15			No-load Current	2.47 A
NEMA Nom. Eff.	85.5	Power Factor	89	Line-line Res. @ 25°C	2.95 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	55°C
S.F. Amps				Temp. Rise @ S.F. Load	68°C
				Rotor inertia	0.0959 LF ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	77	85	91	93	93	92
Efficiency	80.4	86	86.7	86.1	84.6	82.6	85.2
Speed	3561	3526	3488	3448	3401	3352	3420
Line amperes	2.86	3.73	4.93	6.15	7.62	9.24	7.03

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



AC Induction Motor Performance Data

Record # 20145 - Typical performance - not guaranteed values

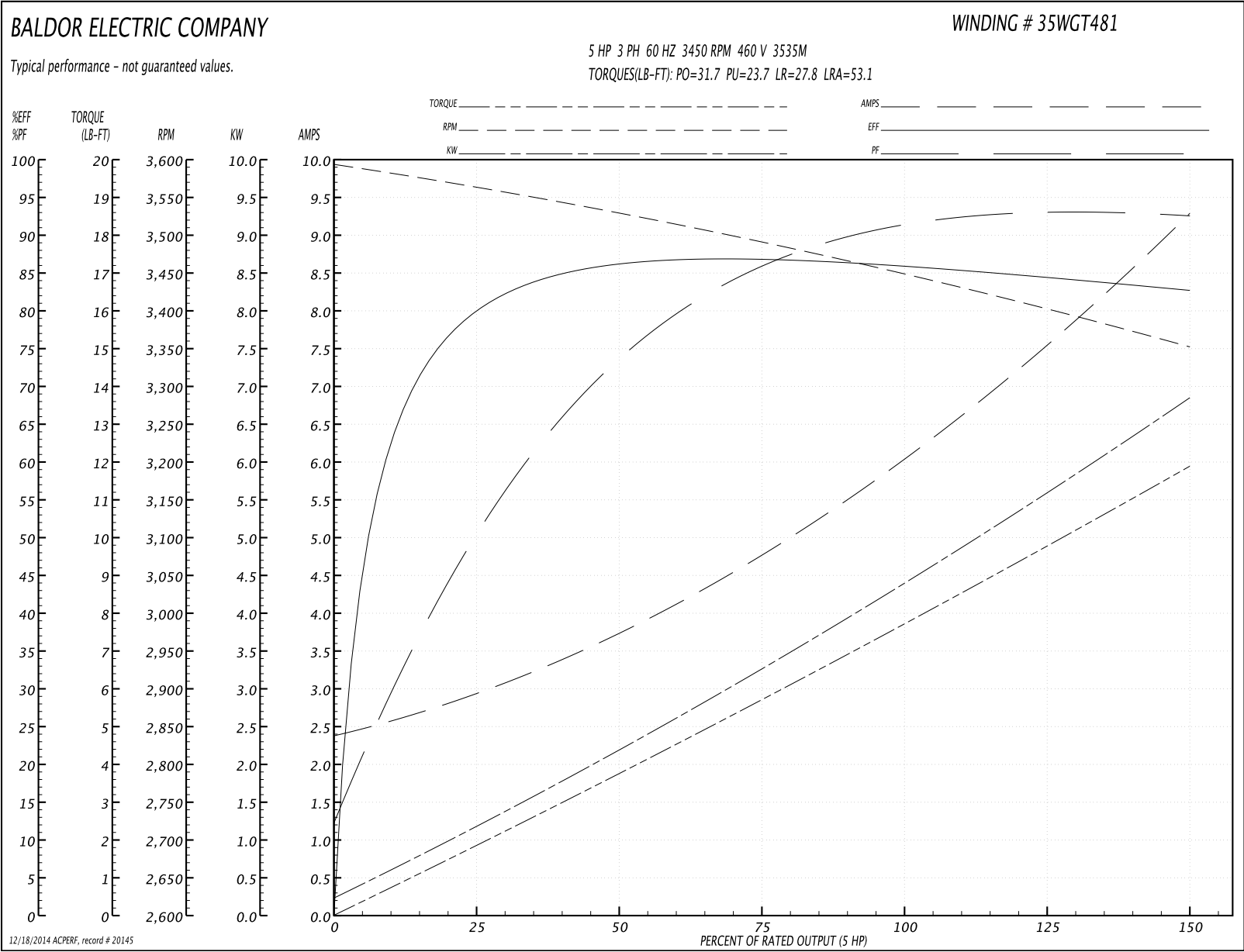
Winding: 35WGT481-R002	Type: 3535M	Enclosure: OPSB
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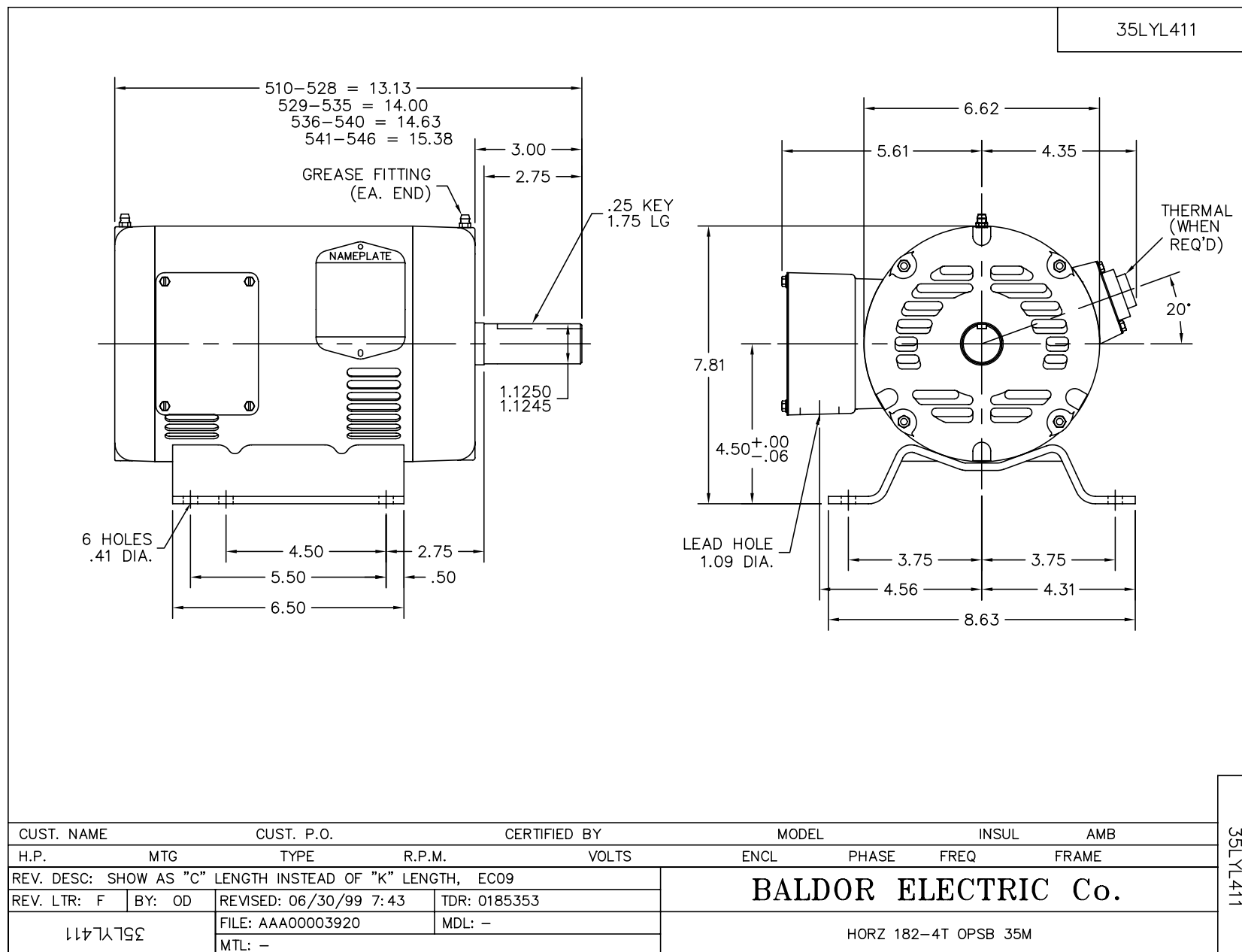
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	7.807 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	13-12.2/6.1			Breakdown Torque	31.7 LB-FT
R.P.M.	3450			Pull-up Torque	23.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	27.8 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	53.1 A
Service Factor (S.F.)	1.15			No-load Current	2.47 A
NEMA Nom. Eff.	85.5	Power Factor	89	Line-line Res. @ 25°C	2.95 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	55°C
S.F. Amps				Temp. Rise @ S.F. Load	68°C
				Rotor inertia	0.0959 LF ²

Load Characteristics 460 V, 60 Hz, 5 HP

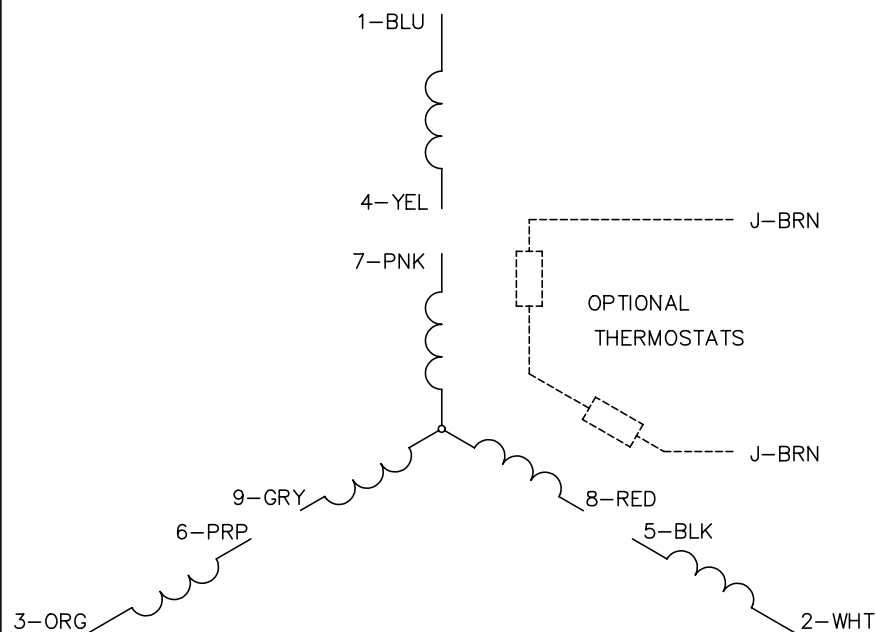
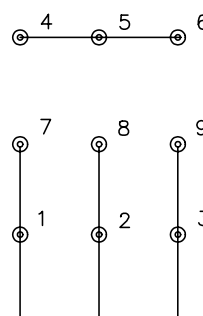
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	77	85	91	93	93	92
Efficiency	80.4	86	86.7	86.1	84.6	82.6	85.2
Speed	3561	3526	3488	3448	3401	3352	3420
Line amperes	2.86	3.73	4.93	6.15	7.62	9.24	7.03

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

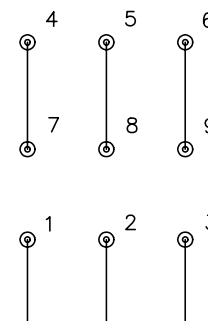




CD0005


 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