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Product Information Packet

CNM20134

MTR. K16AA 208-230/460V .13 HP 1725 RPM

Part Detail							
Revision:	Q	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Prod. Type:**	2516M	**Elec. Spec:**	25WGW004	**CD Diagram:**	CD0005A05
Enclosure:	TENV	**Mfg Plant:**		**Mech. Spec:**		**Layout:**	25E642W004
Frame:	42C	**Mounting:**	F1	**Poles:**	04	**Created Date:**	
Base:		**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	06-29-2016
Leads:	9#18					**Replaced By:**	
Literature:		**Elec. Diagram:**					

Nameplate NP0868L

CAT.NO.	CNM20134				
SPEC.	25E642W004				
RATING	40C AMB-CONT				
FRAME	42C			**SER.**	
HP	.13 TE				
VOLTS	208-230/460				
AMPS	.78-.86/.43				
RPM	1725				
HZ	60	**PH**	3	**CLASS**	F
RATIO					
R.P.M.				**TORQ/IN LB**	

Parts List

Part Number	Description	Quantity
SA124774	SA 25E642W004	1.000 EA
RA115177	RA 25E642W004	1.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
25EP2300A04G	EP,25AC DE CL 6200 42C FOR EXT. HSG	1.000 EA
HW5002A45	RETAINING RING,WALDES TRUARC N5002-118	1.000 EA
25BA4000G	BASE,STAMPED	1.000 EA
11XN1032A08	10-32 X 1/2 HEX SLT WS HD X	4.000 EA
HW1004A10	WASHER,LOCK,#10 INT. TOOTH	4.000 EA
MJ5004A35	ADHESIVE LOCTITE #243-31 50 ML	0.001 EA
CB0100B01G	CB,EXR 25 .88 LEAD EXIT F1 POSITION	1.000 EA
GS0120	GASKET,CONDUIT BOX FOR CB2000A17	1.000 EA
15XN0832A08	SCREW PAN HD 08-32 X 1/2 (PHILLIPS)	2.000 EA
CB0103A00G	CB,LID FOR CB0100 W/GRAY POWDER COATING	1.000 EA
GS0121A01	GASKET, LID FOR CB0100B00	1.000 EA
60XM0832A06	SCREW, PAN TORX 8-32X.375 THREAD FORMING	4.000 EA
25EP2101A108G	EP,25AC ODE CL 6200 EXR W\GRND HOLE & C'	1.000 EA
HW5109A08	WASHER, WAVE SPRING FOR 30MM BORE SMALLE	1.000 EA
51XT0832G05	SCREW,HEX HD 8-32 X 5/16 GRN.	1.000 EA
HA3169A02	THRUBOLT,#8-32 X 5.81 LG.	2.000 EA
NP0868L	NP,AC STD AL 3.23 V CSA UL	1.000 EA
99XM0356A02	STICK SCREW, #3-56 X .125 LG. HEX (MARK	2.000 EA
CPA1000	PACKING GROUP STD. SINGLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 18159 - Typical performance - not guaranteed values

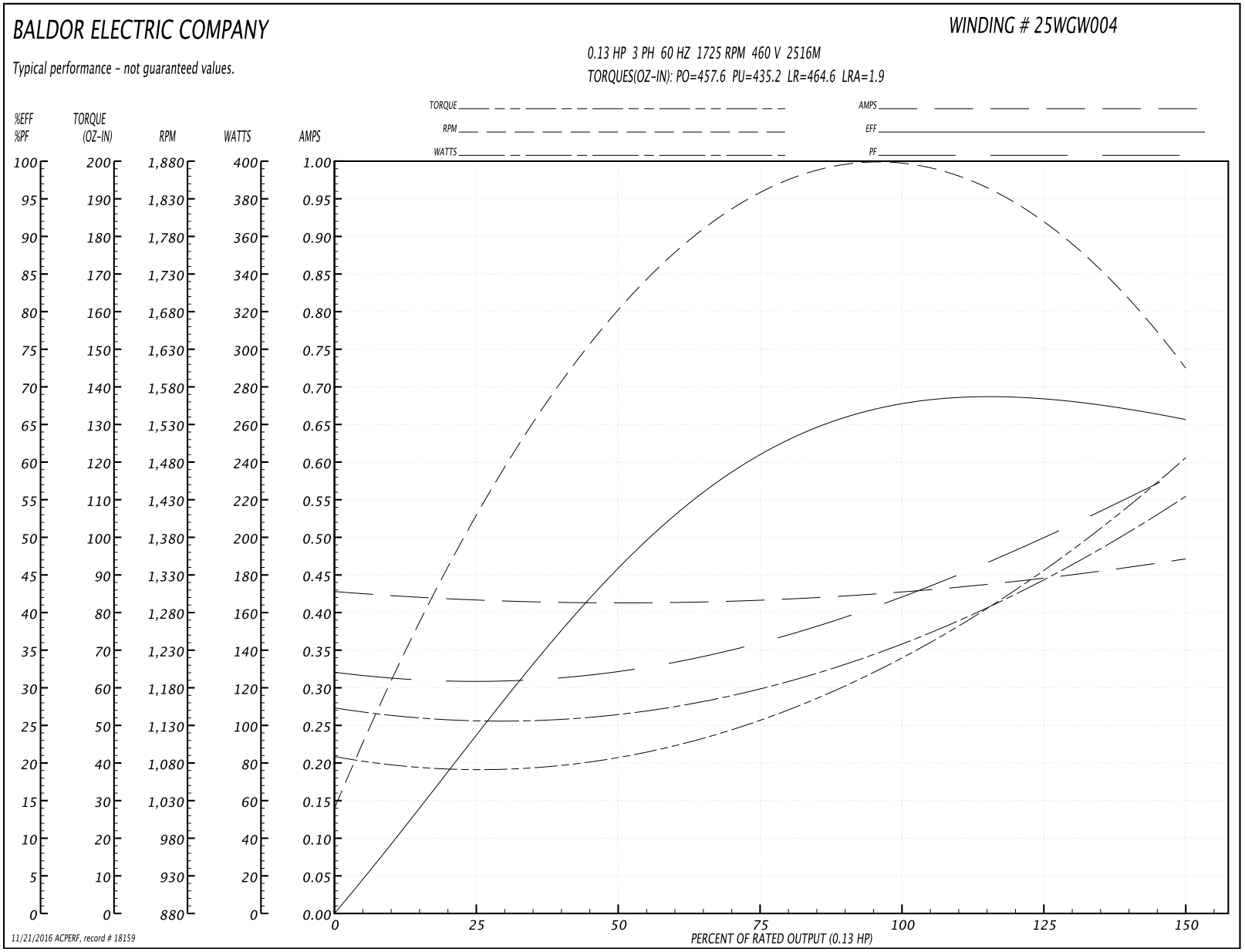
Winding: 25WGW004-R001	**Type:** 2516M	**Enclosure:** TENV

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.13			Full Load Torque	76.5 OZ-IN
Volts	460			Start Configuration	direct on line
Full Load Amps	.43			Breakdown Torque	457.6 OZ-IN
R.P.M.	1725			Pull-up Torque	435.2 OZ-IN
Hz	60	Phase	3	Locked-rotor Torque	464.6 OZ-IN
NEMA Design Code	-	KVA Code	-	Starting Current	1.9 A
Service Factor (S.F.)	1			No-load Current	0.41 A
NEMA Nom. Eff.	62	Power Factor	45	Line-line Res. @ 25ºC	111.65 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	60°C

Load Characteristics 460 V, 60 Hz, 0.13 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	23	30	38	45	52	58
Efficiency	33.2	48.9	57.9	62.6	0.7	67.4
Speed	1779	1760	1742	1722	17.3	1681
Line amperes	0.41	0.41	0.42	0.43	0.45	0.47

Performance Graph at 460V, 60Hz, 0.13HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 18160 - Typical performance - not guaranteed values

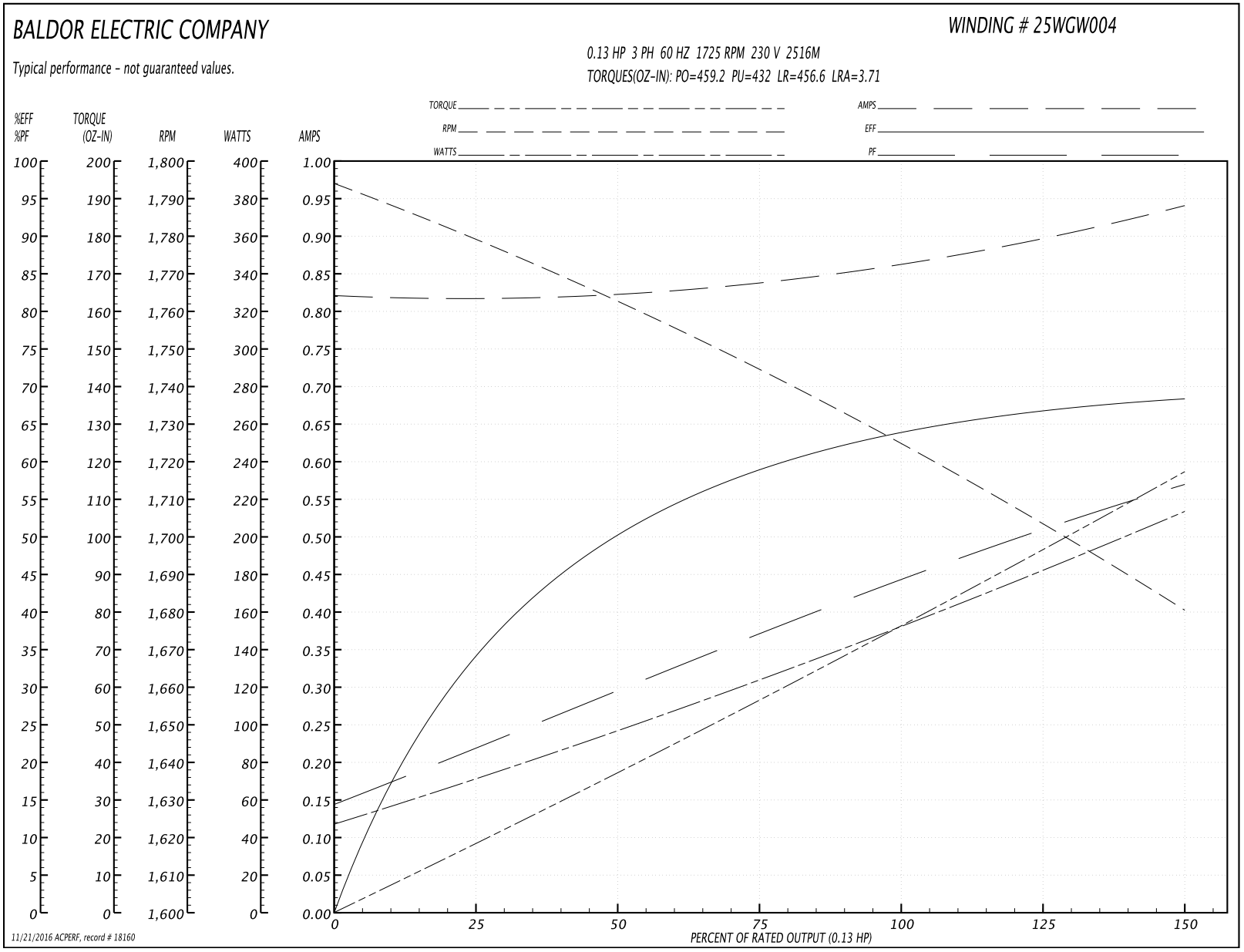
Winding: 25WGW004-R001	**Type:** 2516M	**Enclosure:** TENV

Nameplate Data				230 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	.13			Full Load Torque	76.5 OZ-IN
Volts	230			Start Configuration	direct on line
Full Load Amps	.86			Breakdown Torque	459.2 OZ-IN
R.P.M.	1725			Pull-up Torque	432 OZ-IN
Hz	60	Phase	3	Locked-rotor Torque	456.6 OZ-IN
NEMA Design Code	-	KVA Code	-	Starting Current	3.71 A
Service Factor (S.F.)	1			No-load Current	0.82 A
NEMA Nom. Eff.	62	Power Factor	45	Line-line Res. @ 25ºC	111.65 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	60°C

Load Characteristics 230 V, 60 Hz, 0.13 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	22	30	37	45	51	57
Efficiency	34.5	50.3	59	64	66.8	68.4
Speed	1779	1762	1745	1725	1702	1681
Line amperes	0.82	0.82	0.84	0.86	0.9	0.94

Performance Graph at 230V, 60Hz, 0.13HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 18161 - Typical performance - not guaranteed values

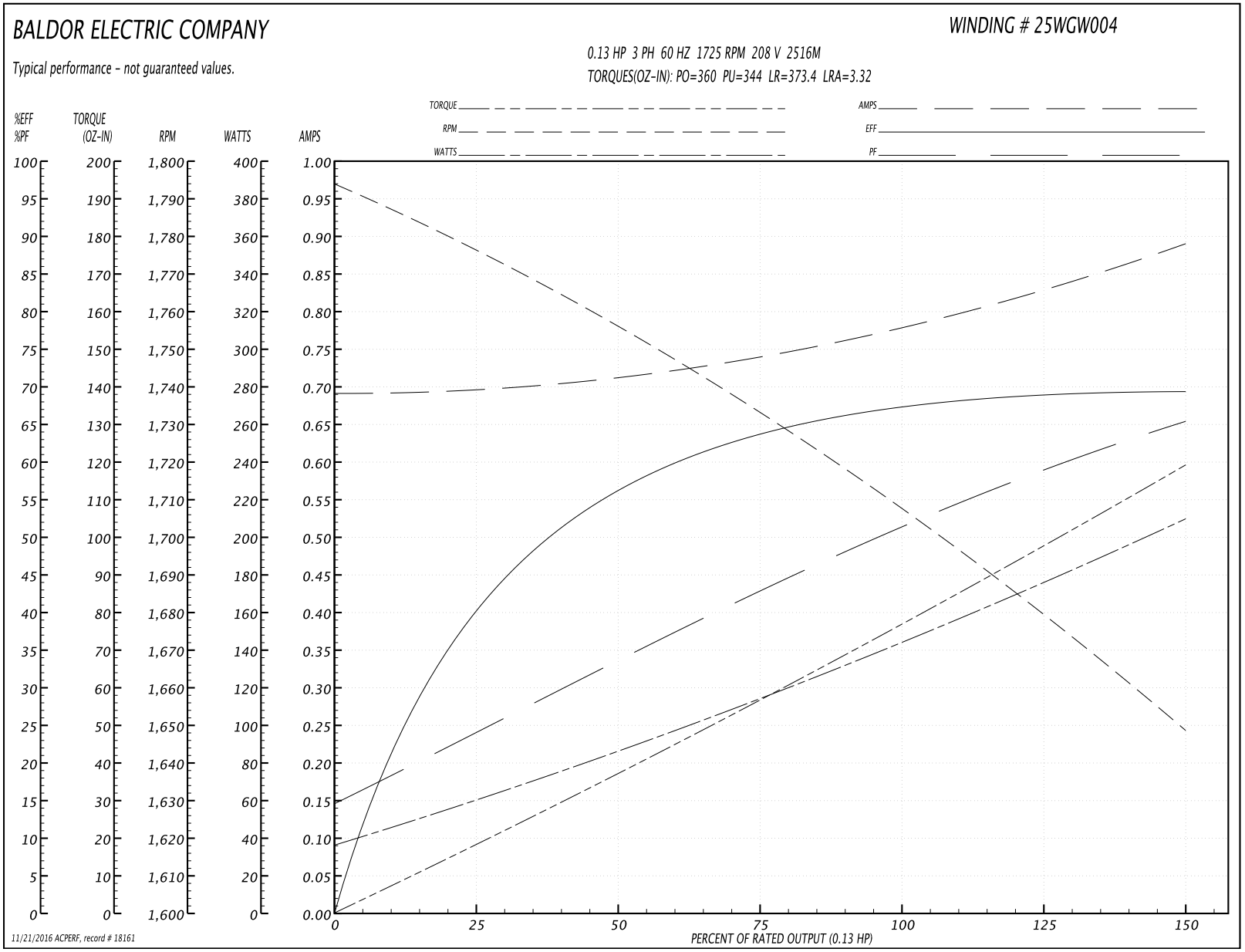
Winding: 25WGW004-R001	**Type:** 2516M	**Enclosure:** TENV

Nameplate Data				208 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.13			Full Load Torque	77.1 OZ-IN
Volts	208			Start Configuration	direct on line
Full Load Amps	.78			Breakdown Torque	360 OZ-IN
R.P.M.	1725			Pull-up Torque	344 OZ-IN
Hz	60	Phase	3	Locked-rotor Torque	373.4 OZ-IN
NEMA Design Code	-	KVA Code	-	Starting Current	3.32 A
Service Factor (S.F.)	1			No-load Current	0.69 A
NEMA Nom. Eff.	62	Power Factor	45	Line-line Res. @ 25ºC	111.65 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	60°C

Load Characteristics 208 V, 60 Hz, 0.13 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	24	34	43	51	59	65
Efficiency	40.4	56.4	64	67.5	68.8	69.4
Speed	1775	1754	1733	1709	1679	1648
Line amperes	0.7	0.71	0.74	0.78	0.83	0.89

Performance Graph at 208V, 60Hz, 0.13HP Typical performance - Not guaranteed values



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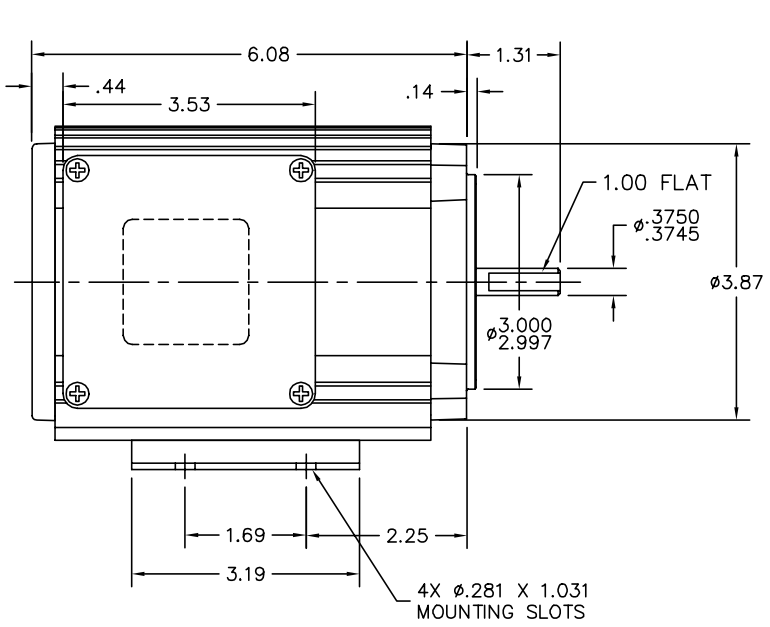

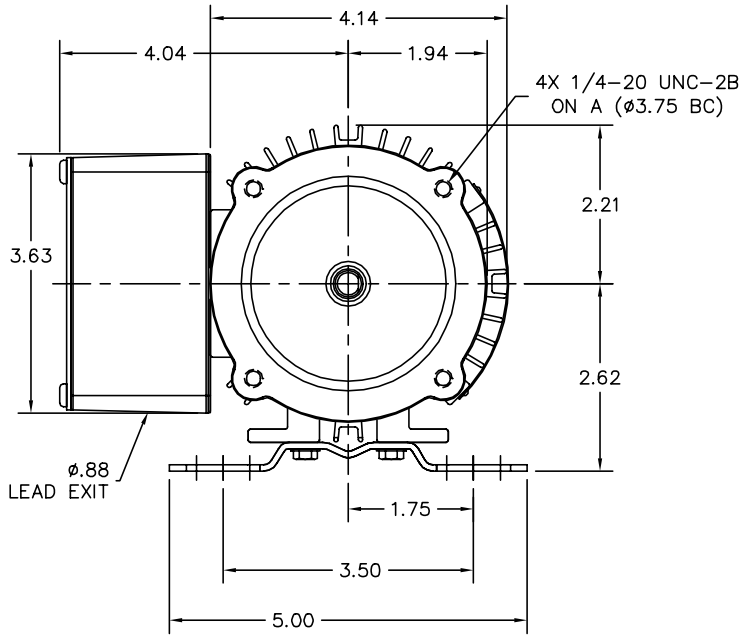

NOTES:
1. BASE SCREWS INSTALLED WITH LOCTITE.
2. CONNECTION LABEL INSTALLED UNDER CONDUIT BOX LID.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: CHG REAR ENDPLATE			BALDOR ELECTRIC Co.
REV. LTR: C	VERSION: 03	TDR: 000000410172	
25E642W004	FILE: \CKA\00026\723	REVISED: 13:41:38 10/04/2006	LY,25AC MTR EXR TENV W\BASE
	MTL: –	BY: CKRONS0	

25E642W004

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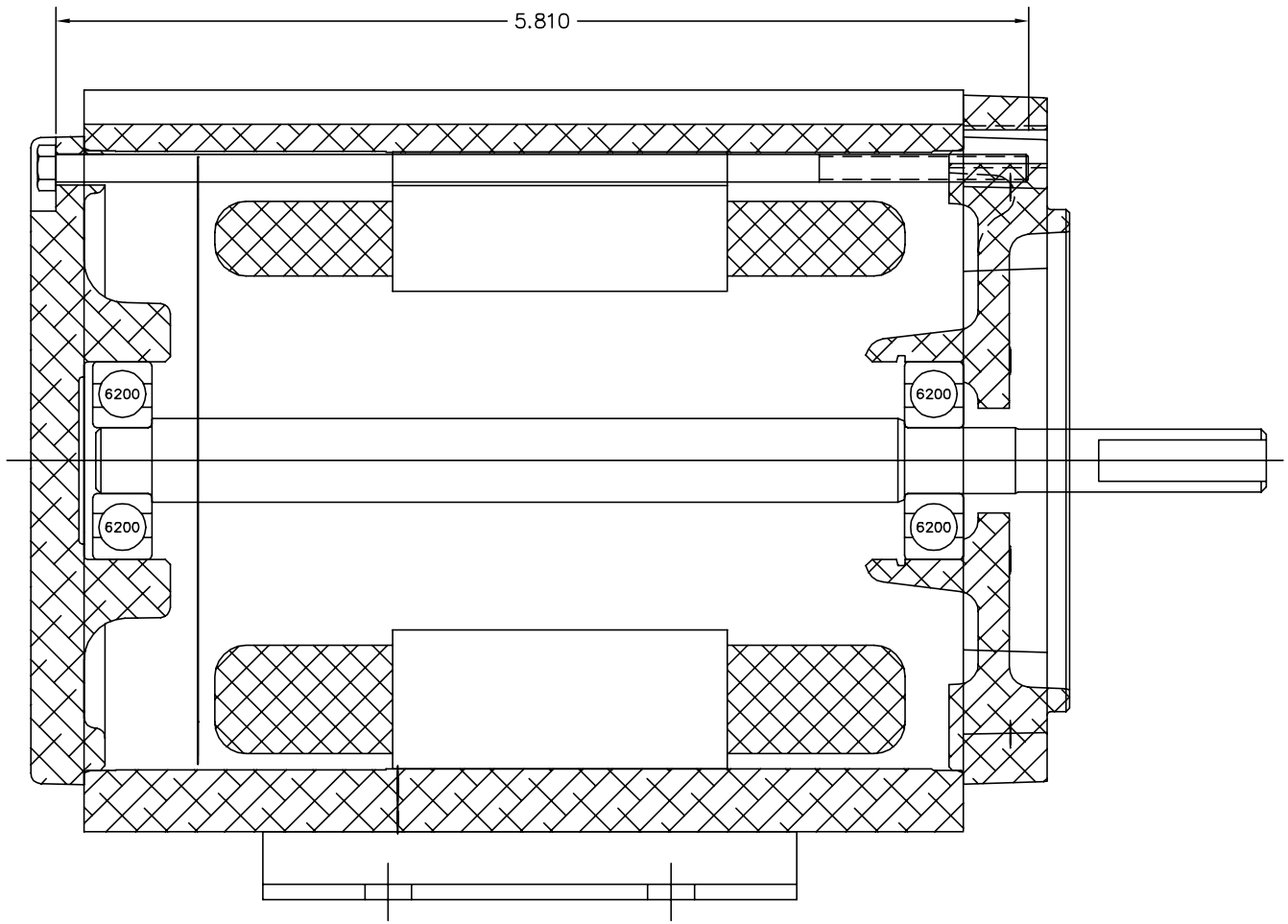

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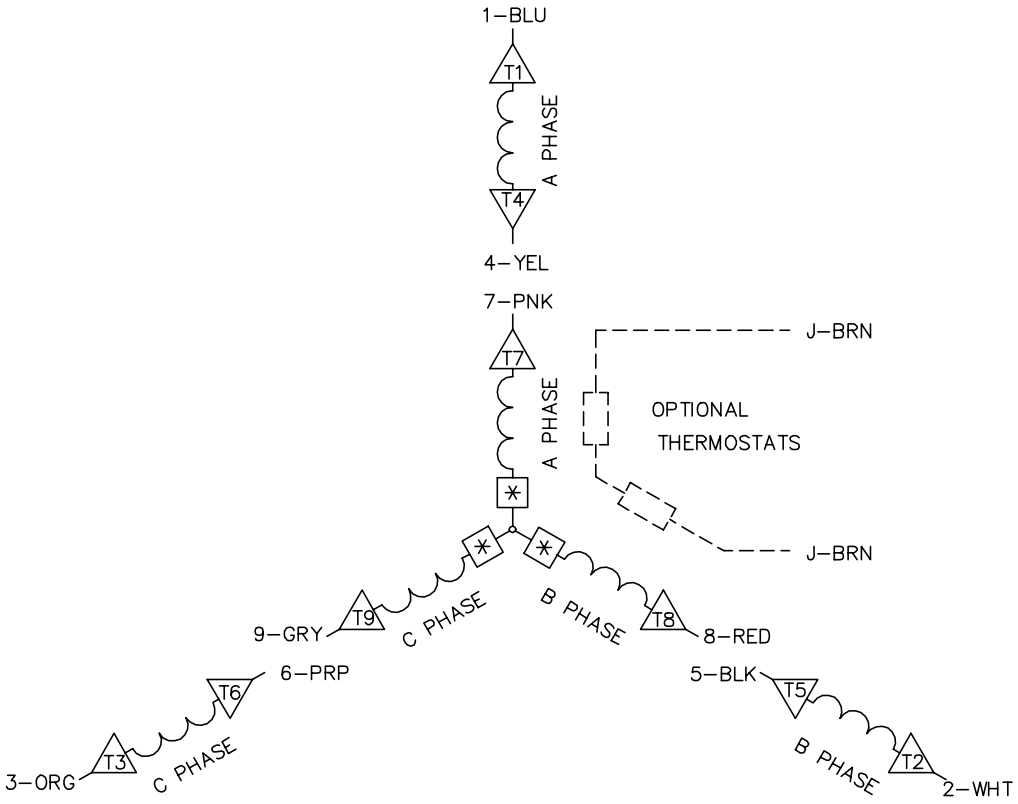
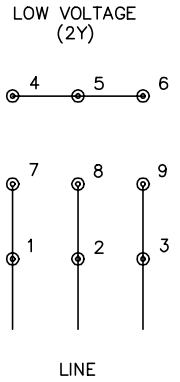
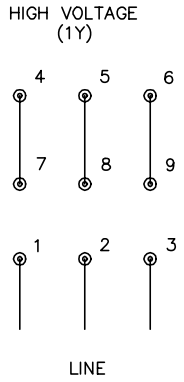
REV. DESC: CHG REAR ENDPLATE			BALDOR ELECTRIC Co.
REV. LTR: C	VERSION: 03	TDR: 000000410172	
25E642W004	FILE: \CKA\00026\723	REVISED: 13:41:38 10/04/2006	LY,25AC MTR EXR TENV W\BASE
	MTL: –	BY: CKRONS0	

25E642W004

CD0005A05







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.
5. (#) =MAGNET WIRE COIL END WITH I.D. NUMBER.
6. [*] =MAGNET WIRE COIL END WITH I.D. SYMBOL.
7. SEE CW PRINT FOR NEST TO NEST CROSSOVER CONNECTIONS.

REV. DESC: ADD NEST NOTE			BALDOR • DODGE • RELIANCE
REV. LTR: C	VERSION: 03	TDR: 000000445597	
CD0005A05	FILE: \CKA\00024\847	REVISED: 12:51:06 11/15/2007	3PH, DV, 9 LEADS, CK
	MTL: –	BY: CKMICRO	

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