BALDOR
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Product Information Packet

CNM20252

.25HP,2850/3450RPM,3PH,50/60HZ,2520M

Part Detail							
Revision:	Q	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Prod. Type:**	2520M	**Elec. Spec:**	25WGW002	**CD Diagram:**	CD0005A05
Enclosure:	TENV	**Mfg Plant:**		**Mech. Spec:**		**Layout:**	25E637W002
Frame:	42C	**Mounting:**	F1	**Poles:**	02	**Created Date:**	
Base:		**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	09-01-2016
Leads:	9#18					**Replaced By:**	
Literature:		**Elec. Diagram:**					

Nameplate NP1784A03

CAT.NO.	CNM20252				
SPEC.	25E637W002				
SER.NO					
HP	.25 TE	**HZ**	60//50		
VOLTS	230/460//190/380				
AMP	.9/.45//1/.5				
PH	3	**CAP**		**CODE**	-
CLASS	F	**AMB.**	40		
DUTY	CONT				
RATED RPM	3450//2850				
APRV-CE		**APRV-CSA**		**APRV-UL**	

Parts List

Part Number	Description	Quantity
SA124585	SA 25E637W002	1.000 EA
RA115000	RA 25E637W002	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
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
HA3169A18	THRUBOLT #8-32 THDS X 6.31 LONG	2.000 EA
NP1784A03	NP,AC STD AD NONE V CE CSA UL MOTOR ONLY	1.000 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 # 17534 - Typical performance - not guaranteed values

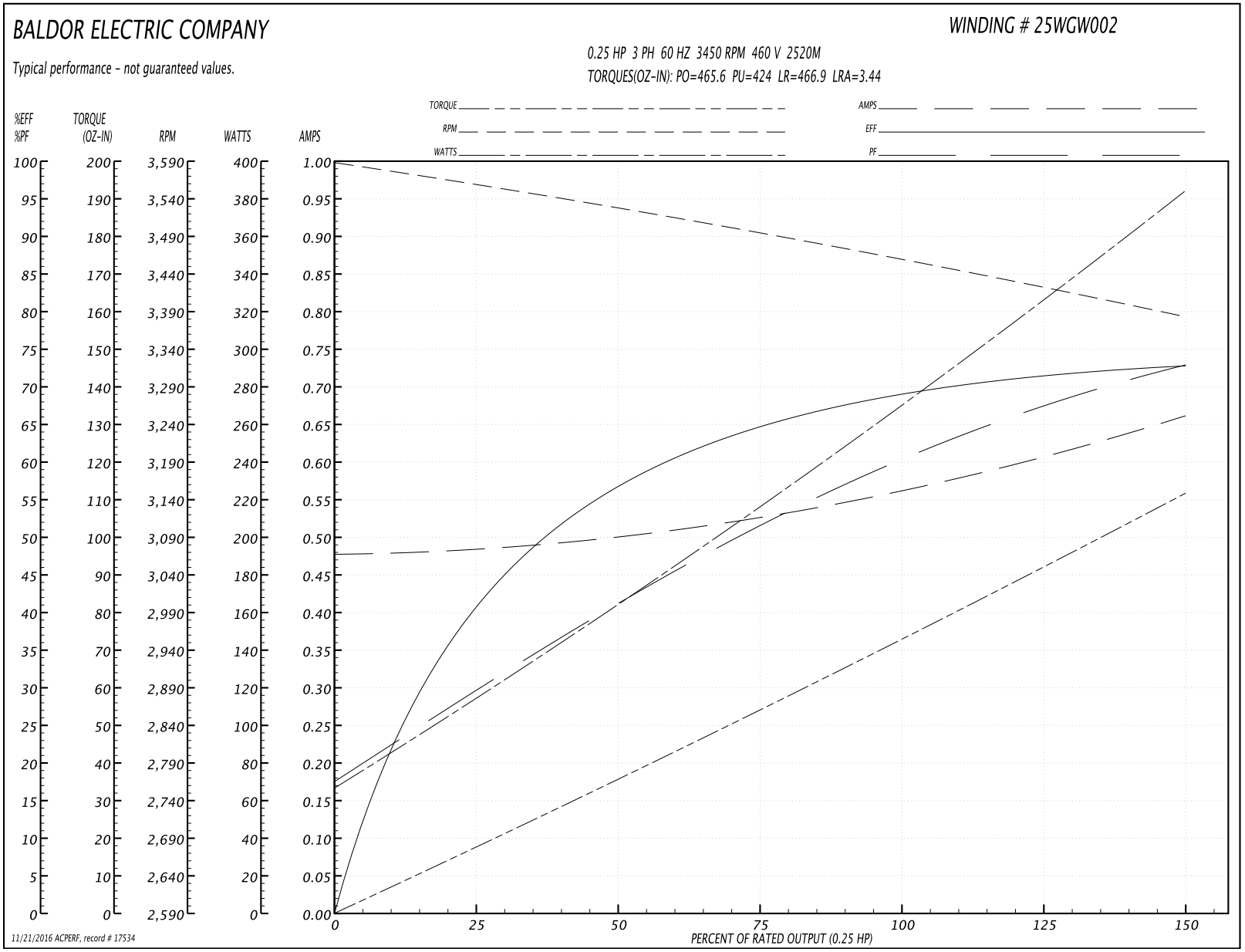
Winding: 25WGW002-R001	**Type:** 2520M	**Enclosure:** TENV

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	0.25			Full Load Torque	73 OZ-IN
Volts	460			Start Configuration	direct on line
Full Load Amps	.45			Breakdown Torque	465.6 OZ-IN
R.P.M.	3450			Pull-up Torque	424 OZ-IN
Hz	60	Phase	3	Locked-rotor Torque	466.9 OZ-IN
NEMA Design Code	-	KVA Code	-	Starting Current	3.44 A
Service Factor (S.F.)	1			No-load Current	0.48 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25ºC	56.21 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	69°C

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	41	51	61	67	73
Efficiency	40.9	56.6	64.8	69.2	71.6	72.7
Speed	3559	3527	3494	3460	3422	3383
Line amperes	0.48	0.5	0.53	0.56	0.61	0.66

Performance Graph at 460V, 60Hz, 0.25HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 17535 - Typical performance - not guaranteed values

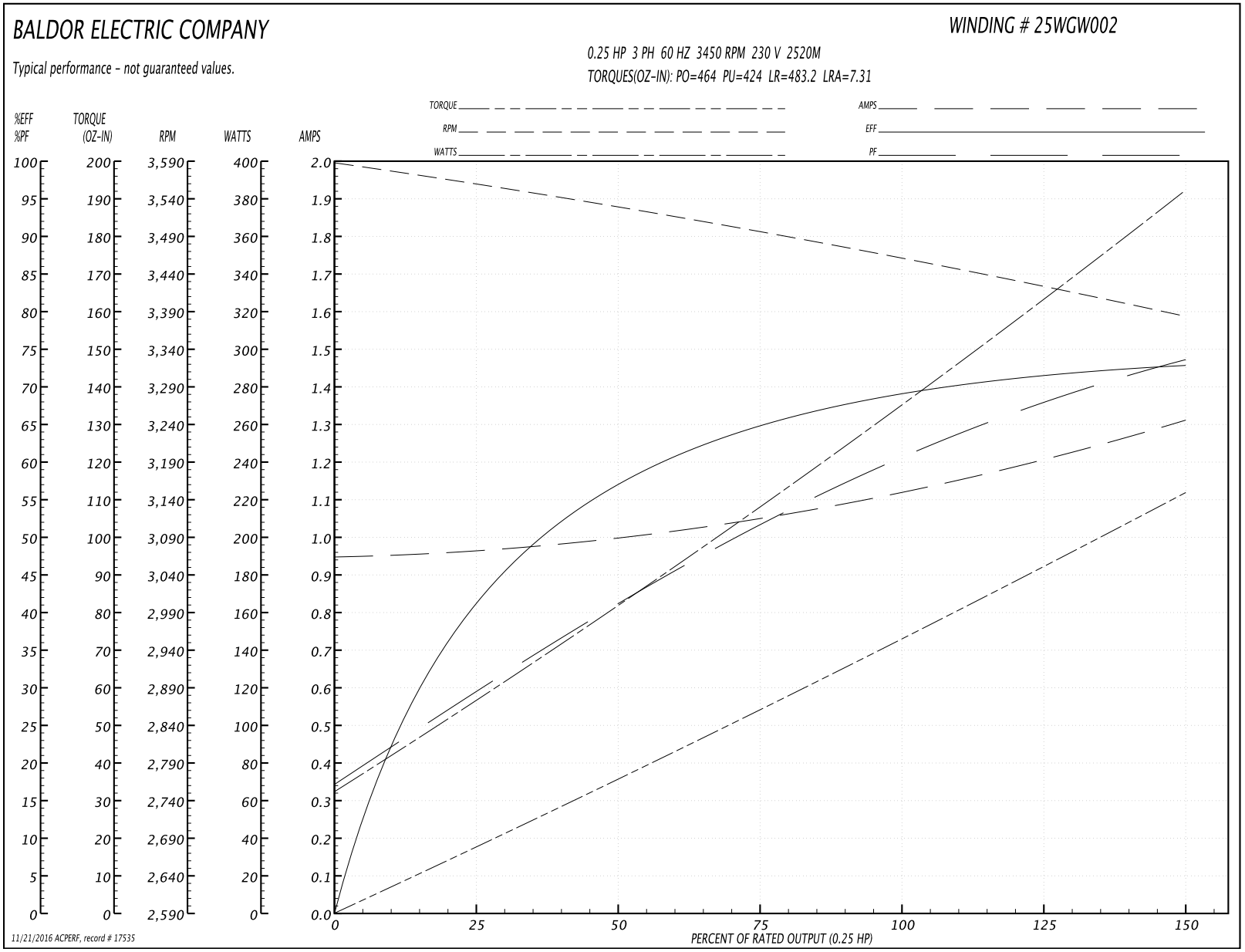
Winding: 25WGW002-R001	**Type:** 2520M	**Enclosure:** TENV

Nameplate Data				230 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	0.25			Full Load Torque	73 OZ-IN
Volts	230			Start Configuration	direct on line
Full Load Amps	.90			Breakdown Torque	464 OZ-IN
R.P.M.	3450			Pull-up Torque	424 OZ-IN
Hz	60	Phase	3	Locked-rotor Torque	483.2 OZ-IN
NEMA Design Code	-	KVA Code	-	Starting Current	7.31 A
Service Factor (S.F.)	1			No-load Current	0.95 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25ºC	56.21 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	41	52	60	68	74
Efficiency	41.5	56.7	64.7	69.4	71.8	72.7
Speed	3558	3529	3494	3463	3425	3382
Line amperes	0.96	1	1.05	1.12	1.21	1.31

Performance Graph at 230V, 60Hz, 0.25HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 17536 - Typical performance - not guaranteed values

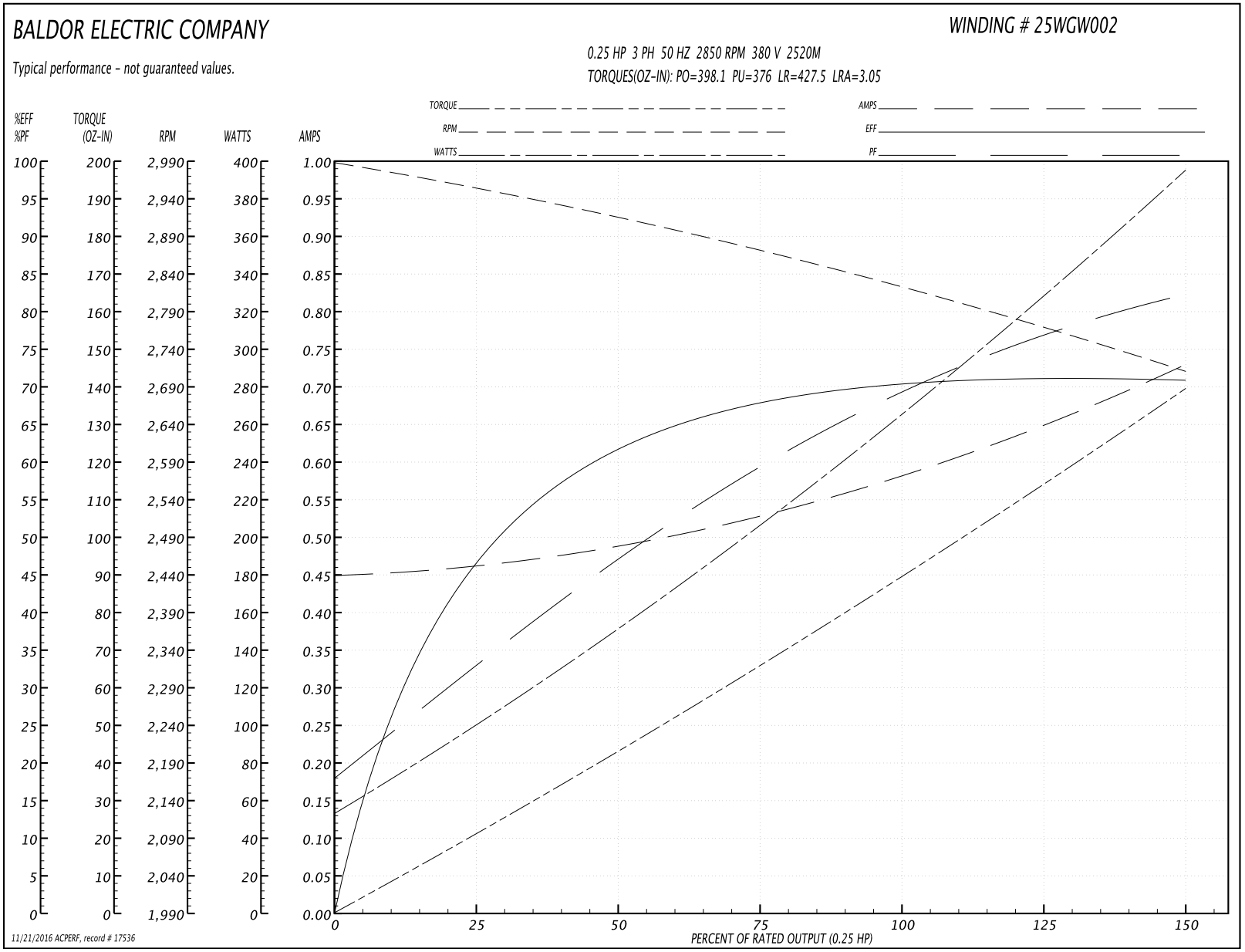
Winding: 25WGW002-R001	**Type:** 2520M	**Enclosure:** TENV

Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	0.25			Full Load Torque	89.4 OZ-IN
Volts	380			Start Configuration	direct on line
Full Load Amps	.5			Breakdown Torque	398.1 OZ-IN
R.P.M.	2850			Pull-up Torque	376 OZ-IN
Hz	50	Phase	3	Locked-rotor Torque	427.5 OZ-IN
NEMA Design Code	-	KVA Code	-	Starting Current	3.05 A
Service Factor (S.F.)	1			No-load Current	0.45 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25ºC	56.21 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	

Load Characteristics 380 V, 50 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	34	47	59	69	77	83
Efficiency	46.2	61.4	68	70.6	71.3	70.7
Speed	2952	2912	2873	2824	2770	2709
Line amperes	0.46	0.49	0.53	0.58	0.65	0.73

Performance Graph at 380V, 50Hz, 0.25HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 17537 - Typical performance - not guaranteed values

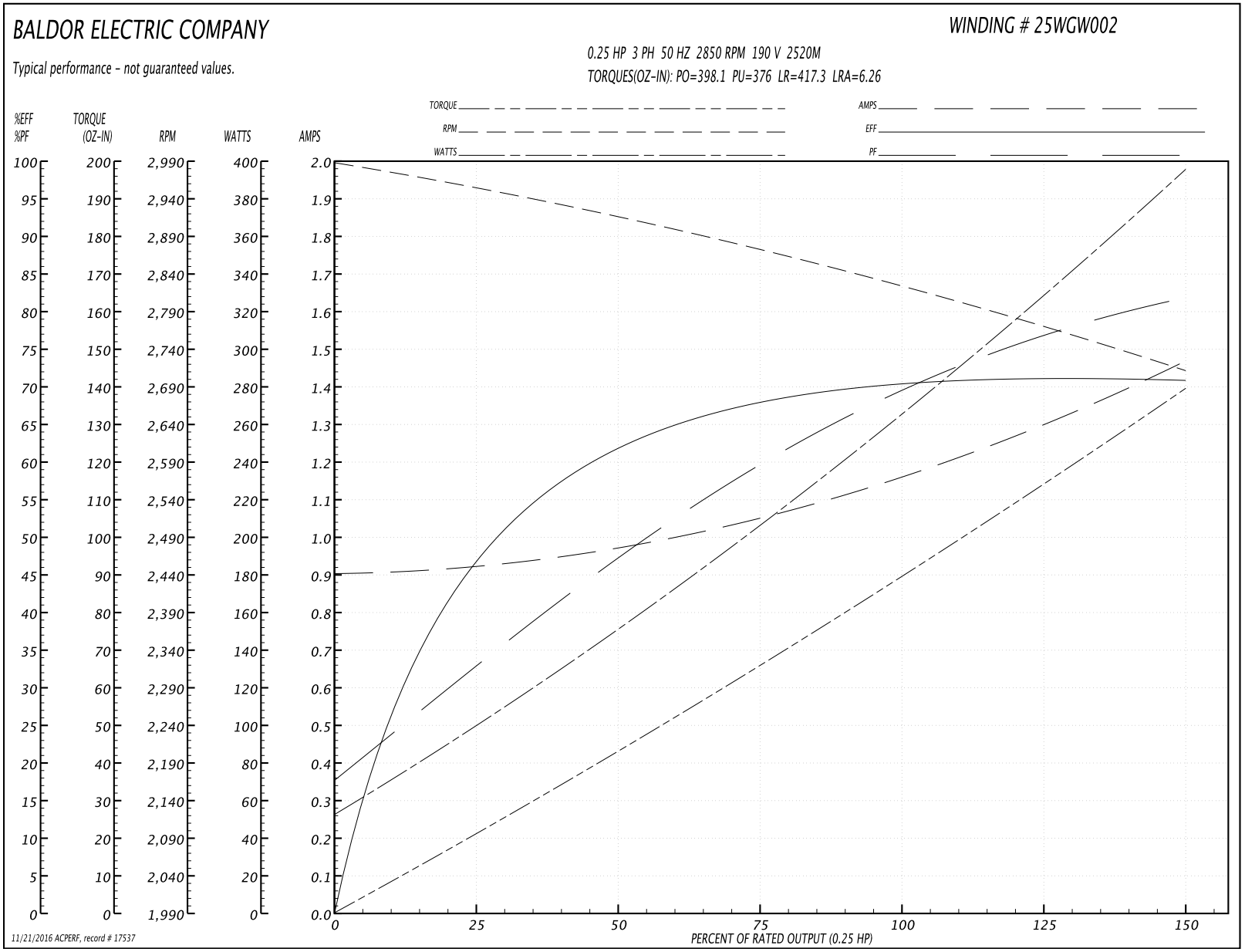
Winding: 25WGW002-R001	**Type:** 2520M	**Enclosure:** TENV

Nameplate Data				190 V, 50 Hz: Low Voltage Connection	
Rated Output (HP)	0.25			Full Load Torque	89.4 OZ-IN
Volts	190			Start Configuration	direct on line
Full Load Amps	1			Breakdown Torque	398.1 OZ-IN
R.P.M.	2850			Pull-up Torque	376 OZ-IN
Hz	50	Phase	3	Locked-rotor Torque	417.3 OZ-IN
NEMA Design Code	-	KVA Code	-	Starting Current	6.26 A
Service Factor (S.F.)	1			No-load Current	0.9 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25ºC	56.21 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	

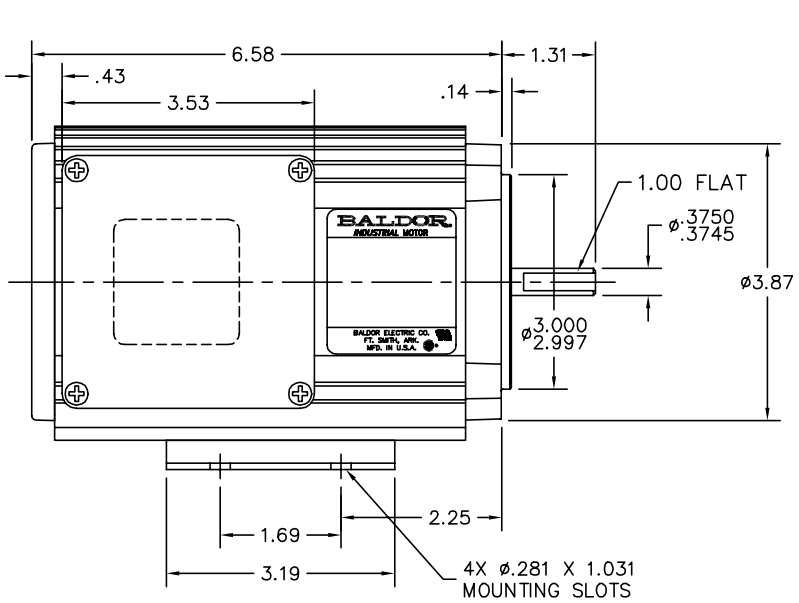
Load Characteristics 190 V, 50 Hz, 0.25 HP

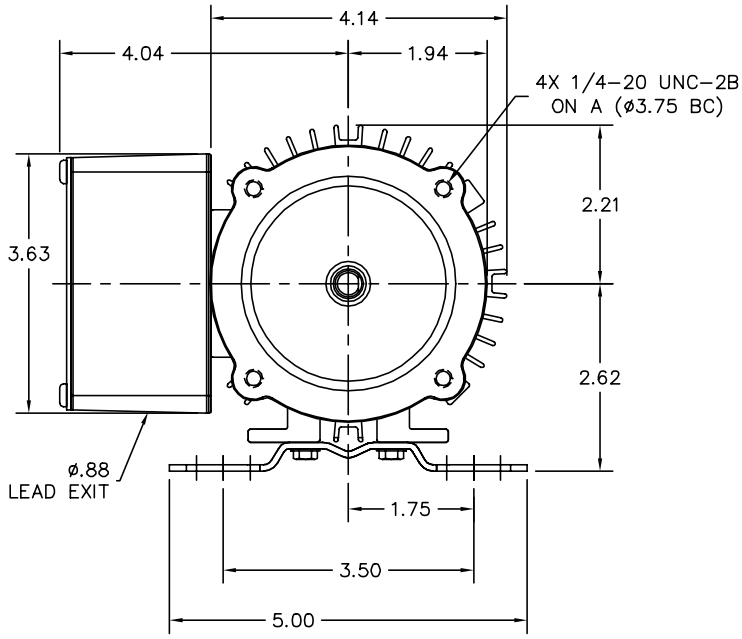
% of Rated Load	25	50	75	100	125	150
Power Factor	33	48	60	69	77	82
Efficiency	46.2	61.2	68.1	70.8	71.4	70.6
Speed	2953	2915	2873	2825	2770	2711
Line amperes	0.93	0.97	1.05	1.16	1.3	1.47

Performance Graph at 190V, 50Hz, 0.25HP Typical performance - Not guaranteed values



25E637W002





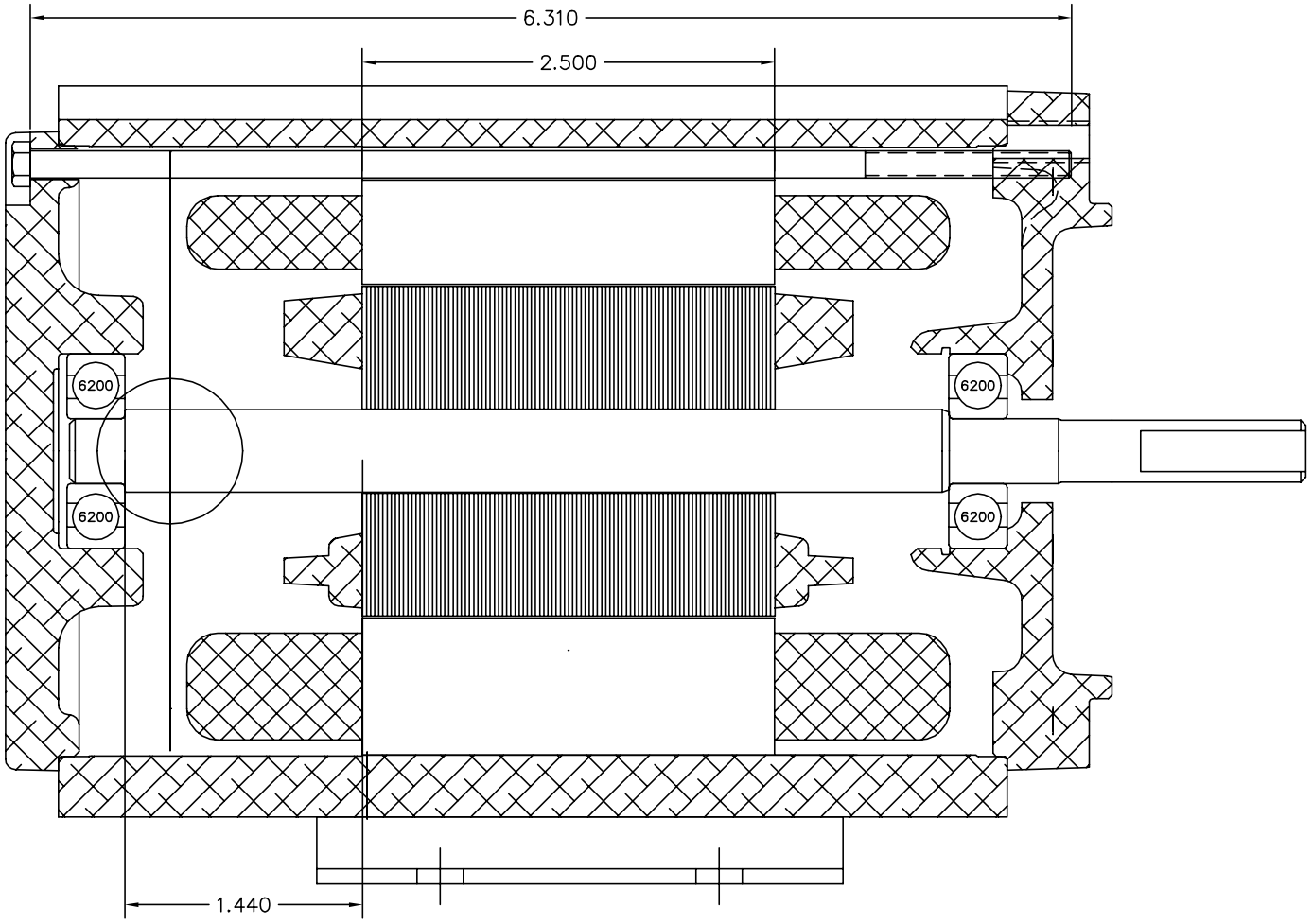
NOTES:
1. BASE SCREWS INSTALLED WITH LOCTITE.
2. CONNECTION LABEL INSTALLED UNDER CONDUIT BOX LID.

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

REV. DESC: CHG REAR ENDPLATE			BALDOR ELECTRIC Co.
REV. LTR: B	VERSION: 02	TDR: 000000410172	
25E637W002	FILE: \CKA\00026\713	REVISED: 13:41:01 10/04/2006	LY,25AC MTR EXR TENV W\BASE (25E005W002)
	MTL: –	BY: CKRONS0	

25E637W002

25E637W002



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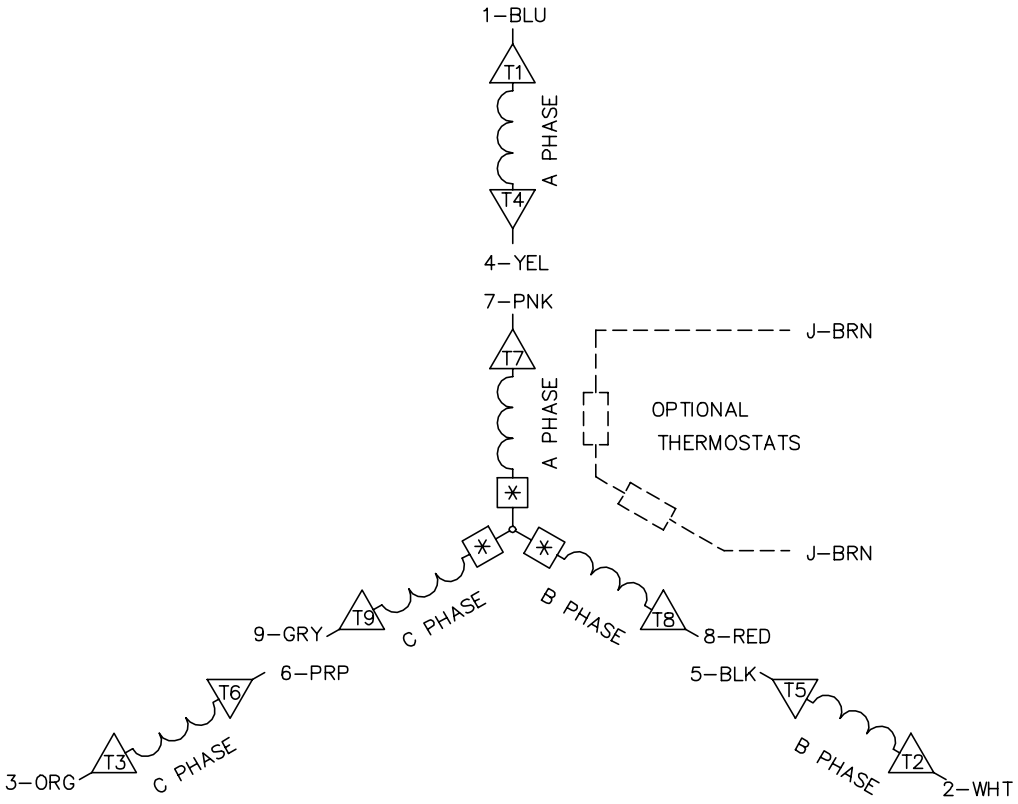
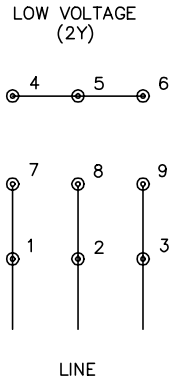
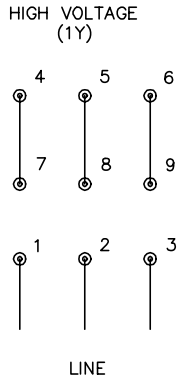
REV. DESC: CHG REAR ENDPLATE			BALDOR ELECTRIC Co.
REV. LTR: B	VERSION: 02	TDR: 000000410172	
25E637W002	FILE: \CKA\00026\713	REVISED: 13:41:02 10/04/2006	LY,25AC MTR EXR TENV W\BASE (25E005W002)
	MTL: –	BY: CKRONS0	

25E637W002

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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