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Product Information Packet

M1704T

1/.5HP,1715/865RPM,3PH,60HZ,143T,3530M,T

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Part Detail							
Revision:	H	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Prod. Type:**	3530M	**Elec. Spec:**	35WGP576	**CD Diagram:**	CD0011
Enclosure:	TEFC	**Mfg Plant:**		**Mech. Spec:**	35AA001	**Layout:**	35LYAA001
Frame:	143T	**Mounting:**	F1	**Poles:**	04/08	**Created Date:**	12-21-2009
Base:	RG	**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	09-27-2016
Leads:	6#18					**Replaced By:**	
Literature:		**Elec. Diagram:**					

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Nameplate NP1256L

CAT.NO.	M1704T							
SPEC.	35AA001P576							
HP	1/.5							
VOLTS	460							
AMP	1.4/1.55							
RPM	1715/865							
FRAME	143T		**HZ**	60			**PH**	3
SER.F.	1.15	**CODE**	J	**DES**	-		**CLASS**	F
NEMA-NOM-EFF		**PF**						
RATING	40C AMB-CONT							
CC						**USABLE AT 208V**		
DE	6205		**ODE**	6203				
ENCL	TEFC	**SN**						

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AC Induction Motor Performance Data

Record # 43987 - Typical performance - not guaranteed values

Winding: 35WGP576-R001	**Type:** 3530M	**Enclosure:** TEFC

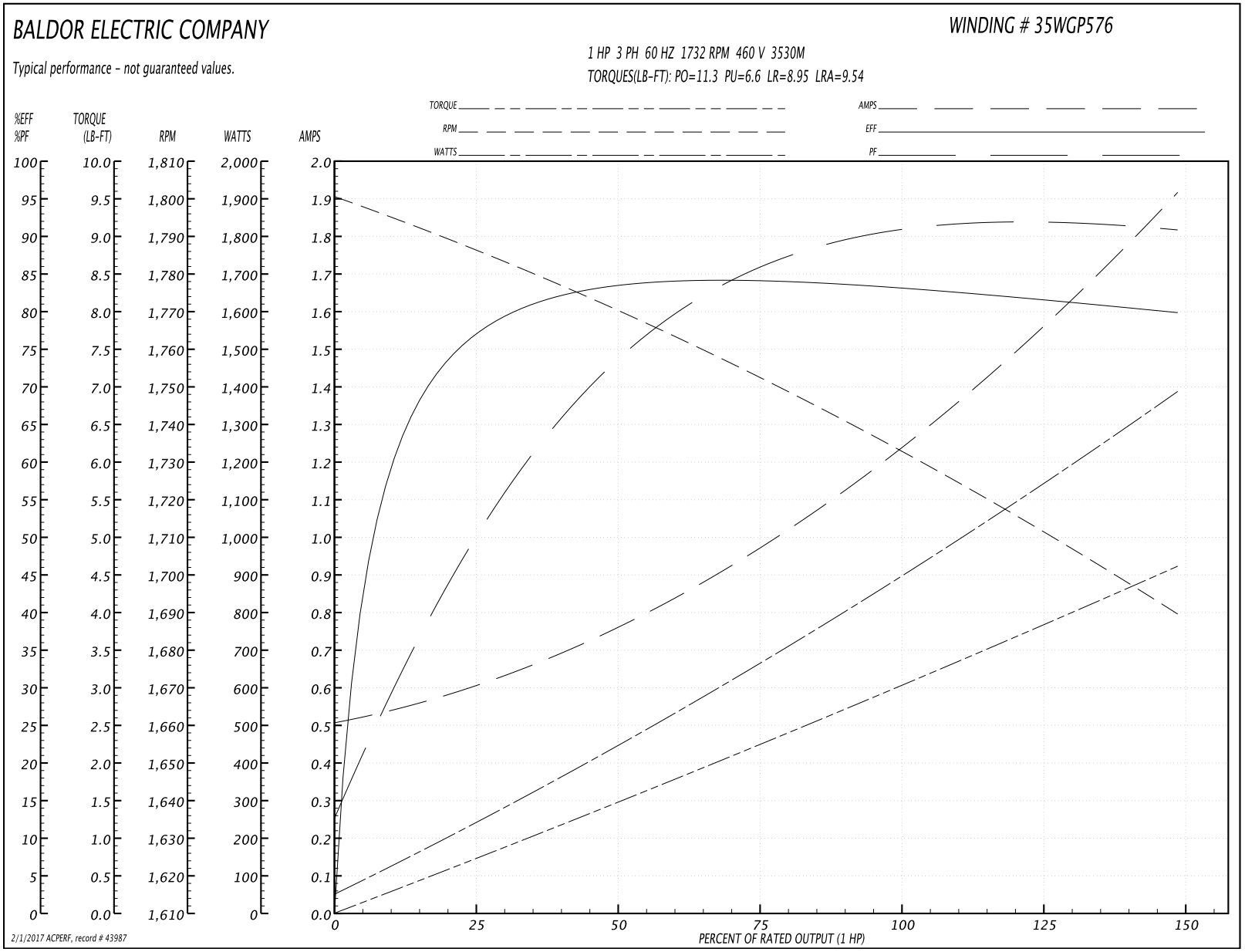
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1/.5			Full Load Torque	3.09 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	1.4/1.55			Breakdown Torque	11.3 LB-FT
R.P.M.	1715/865			Pull-up Torque	6.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	8.95 LB-FT
NEMA Design Code	-	KVA Code	J	Starting Current	9.54 A
Service Factor (S.F.)	1.15			No-load Current	0.518 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25ºC	22.6 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	24°C
S.F. Amps				Temp. Rise @ S.F. Load	29°C
				Rotor inertia	0.178 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	77	87	90	91	92	91
Efficiency	79.3	82.9	83.4	83.4	82.2	79.5	82.7
Speed	1785	1768	1750	1732	1711	1689	1719
Line amperes	0.6	0.77	1.01	1.27	1.58	1.91	1.46

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



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AC Induction Motor Performance Data

Record # 43988 - Typical performance - not guaranteed values

Winding: 35WGP576-R001	**Type:** 3530M	**Enclosure:** TEFC

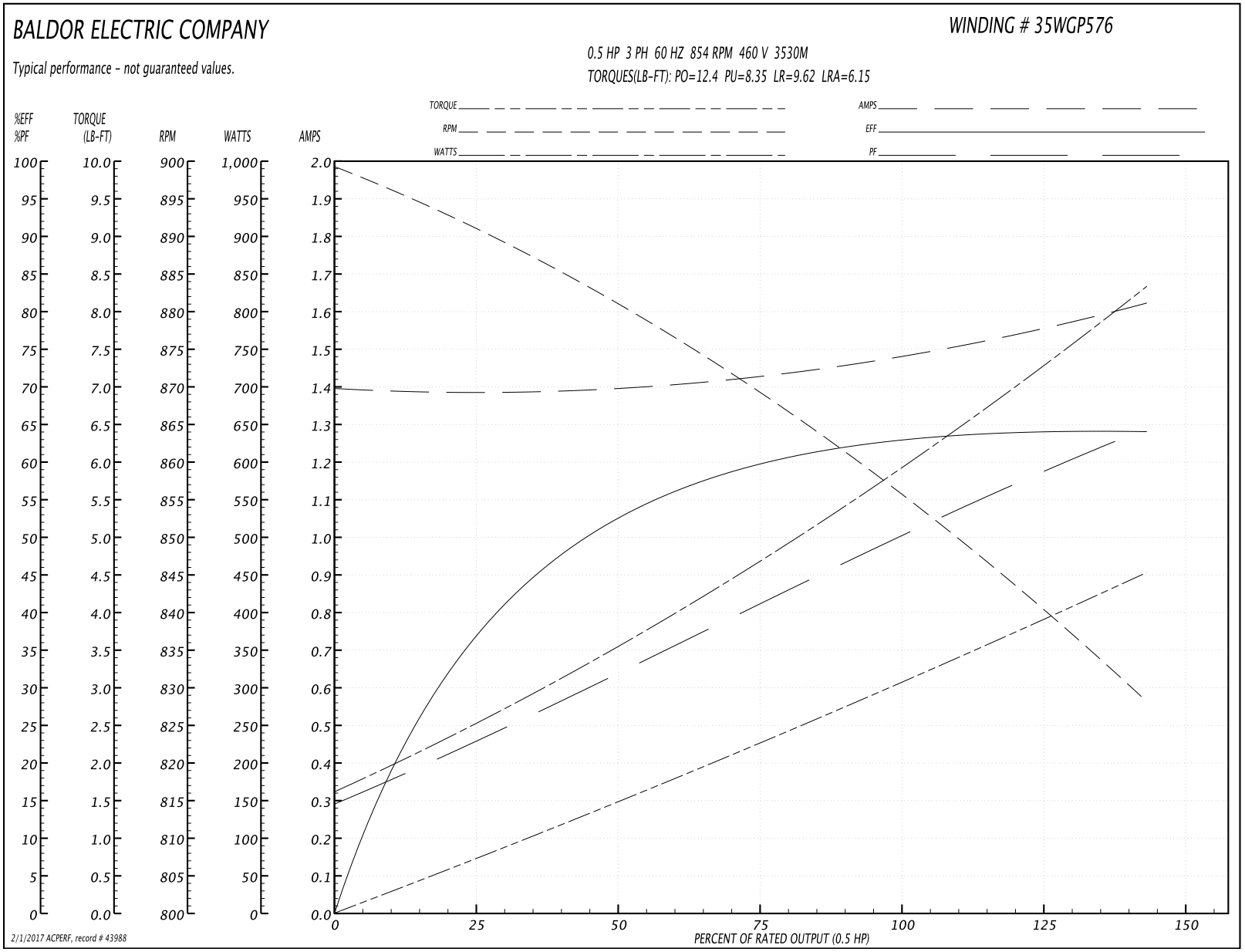
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1/.5			Full Load Torque	3.17 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	1.4/1.55			Breakdown Torque	12.4 LB-FT
R.P.M.	1715/865			Pull-up Torque	8.35 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	9.62 LB-FT
NEMA Design Code	-	KVA Code	J	Starting Current	6.15 A
Service Factor (S.F.)	1.15			No-load Current	1.39 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25ºC	30.9 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	31°C
S.F. Amps				Temp. Rise @ S.F. Load	33°C
				Rotor inertia	0.178 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	33	43	51	58	65	55
Efficiency	38.2	54.1	59.6	64	64.6	63.6	64.4
Speed	891	879	867	854	841	828	846
Line amperes	1.39	1.41	1.43	1.48	1.55	1.63	1.52

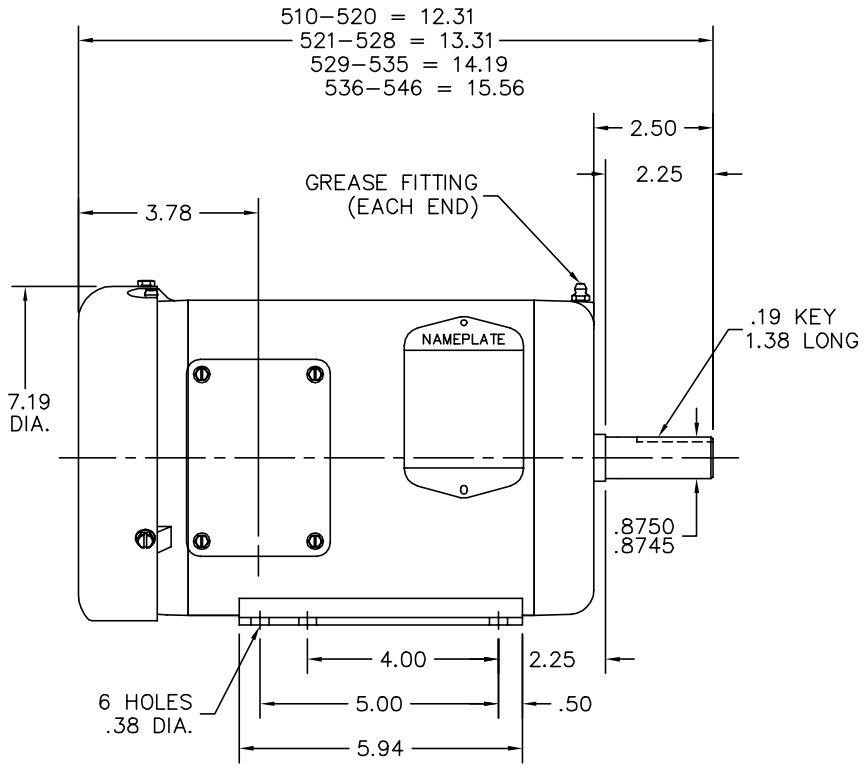
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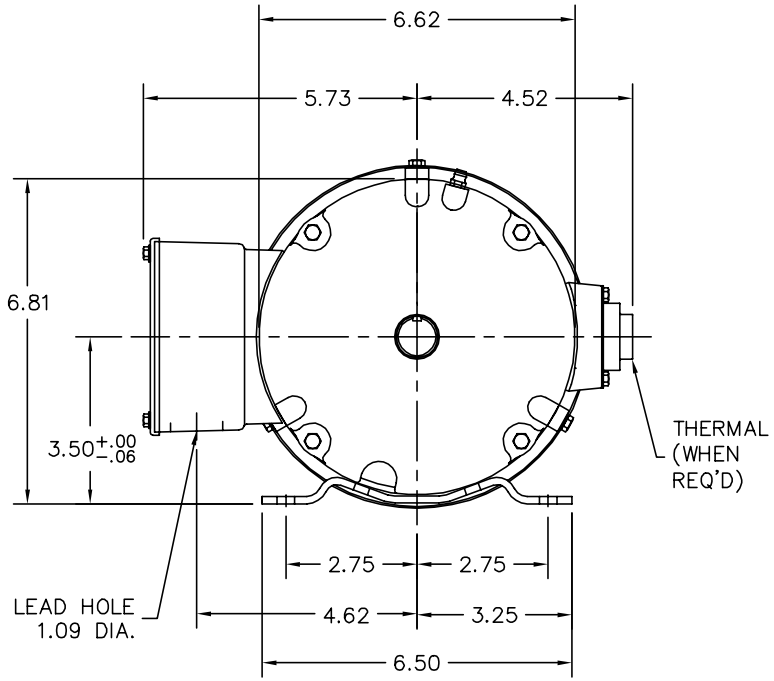
Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values



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35LYAA001





35LYAA001

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REPLACE 35SB0002 W/35SB2075		
REV. LTR: B	VERSION: 02	TDR: 000000962105
FILE: \AAA\00168\387	REVISED: 11:25:03 01/19/2016	BY: ENALEMO
MTL: –		

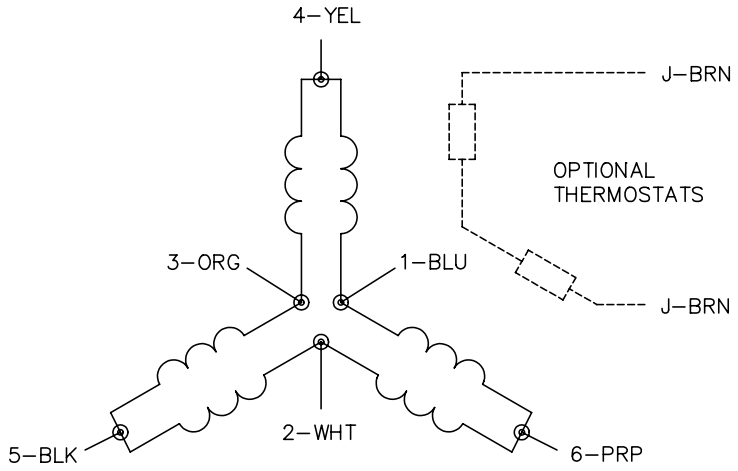
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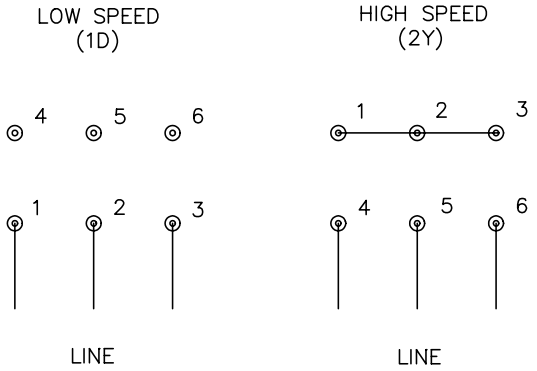
STD HORZ 143–5T TEFC 35M W/1.09 LEAD HOLE

SH 1 of 1

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CD0011





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			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
CD0011		FILE: DWG\142.wg	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING CONSTANT TORQUE

CD0011

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