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Product Information Packet

EM2334T-5

20HP,1765RPM,3PH,60HZ,256T,0952M,TEFC,F1

Part Detail

Revision:	V	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	09WGY638	**CD Diagram:**	CD0006	**Mfg Plant:**	
Mech. Spec:	09P11	**Layout:**	09LYP011	**Poles:**	04	**Created Date:**	11-21-2007
Base:	RG	**Eff. Date:**	07-18-2017	**Leads:**	3#12		

Specs

Catalog Number:	EM2334T-5	**Inverter Code:**	Inverter Ready
Enclosure:	TEFC	**KVA Code:**	H
Frame:	256T	**Lifting Lugs:**	Standard Lifting Lugs
Frame Material:	Iron	**Locked Bearing Indicator:**	Locked Bearing
Output @ Frequency:	20.000 HP @ 60 HZ	**Motor Lead Quantity/Wire Size:**	3 @ 12 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Motor Lead Exit:**	Ko Box
Voltage @ Frequency:	575.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	0952M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	CSA	**Power Factor:**	84
	CSA EEV	**Product Family:**	General Purpose
	UR	**Pulley End Bearing Type:**	Ball
Auxillary Box:	No Auxillary Box	**Pulley Face Code:**	Standard
Auxillary Box Lead Termination:	None	**Pulley Shaft Indicator:**	Standard
Base Indicator:	Rigid	**Rodent Screen:**	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Shaft Extension Location:**	Pulley End
Blower:	None	**Shaft Ground Indicator:**	No Shaft Grounding
Current @ Voltage:	19.200 A @ 575.0 V	**Shaft Rotation:**	Reversible

Design Code:	A	**Shaft Slinger Indicator:**	Shaft Slinger
Drip Cover:	No Drip Cover	**Speed Code:**	Single Speed
Duty Rating:	CONT	**Motor Standards:**	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	**Starting Method:**	Direct on line
Feedback Device:	NO FEEDBACK	**Thermal Device - Bearing:**	None
Front Face Code:	Standard	**Thermal Device - Winding:**	None
Front Shaft Indicator:	None	**Vibration Sensor Indicator:**	No Vibration Sensor
Heater Indicator:	No Heater	**Winding Thermal 1:**	None
Insulation Class:	F	**Winding Thermal 2:**	None

Nameplate NP3441L

CAT.NO.	EM2334T-5								
SPEC.	09P011Y638G1								
HP	20								
VOLTS	575								
AMP	19.2								
RPM	1765								
FRAME	256T		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F		
NEMA-NOM-EFF	93	**PF**	84						
RATING	40C AMB-CONT								
CC	010A			**USABLE AT 208V**					
DE	6309		**ODE**	6208					
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

AC Induction Motor Performance Data

Record # 2074 - Typical performance - not guaranteed values

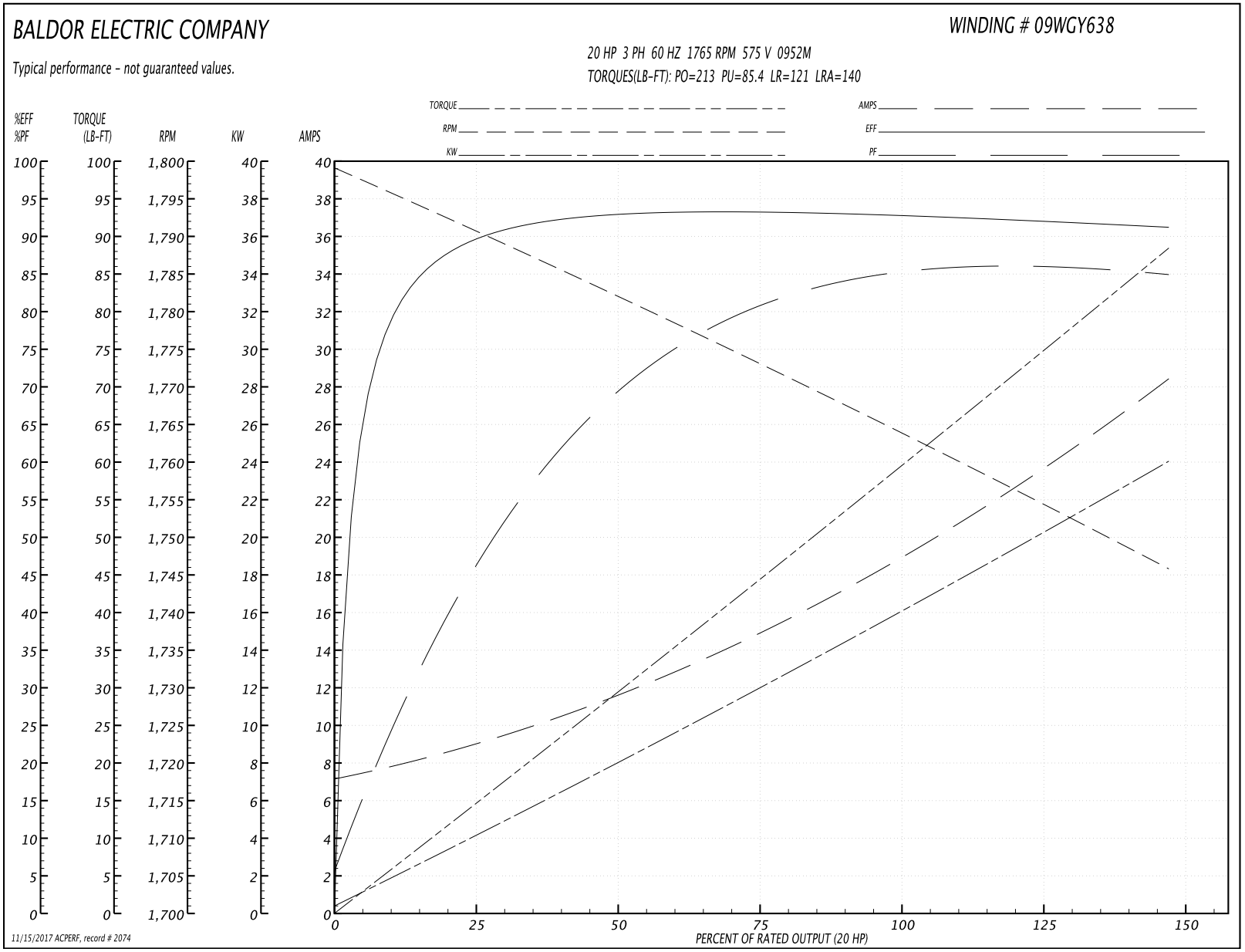
Winding: 09WGY638-R001	**Type:** 0952M	**Enclosure:** TEFC

Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	59 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	19.2			Breakdown Torque	213 LB-FT
R.P.M.	1765			Pull-up Torque	85.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	121 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	140 A
Service Factor (S.F.)	1.15			No-load Current	7.5 A
NEMA Nom. Eff.	93	Power Factor	84	Line-line Res. @ 25ºC	0.617 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	60°C
S.F. Amps				Temp. Rise @ S.F. Load	74°C
				Locked-rotor Power Factor	33
				Rotor inertia	2.27 LB-FT2

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	69	80	84	86	87	85
Efficiency	89	92.8	93.1	93	92.2	91.1	92.5
Speed	1791	1783	1770	1766	1756	1745	1760
Line amperes	8.6	11.2	15.3	19	23.3	28.3	21.6

Performance Graph at 575V, 60Hz, 20.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 35473 - Typical performance - not guaranteed values

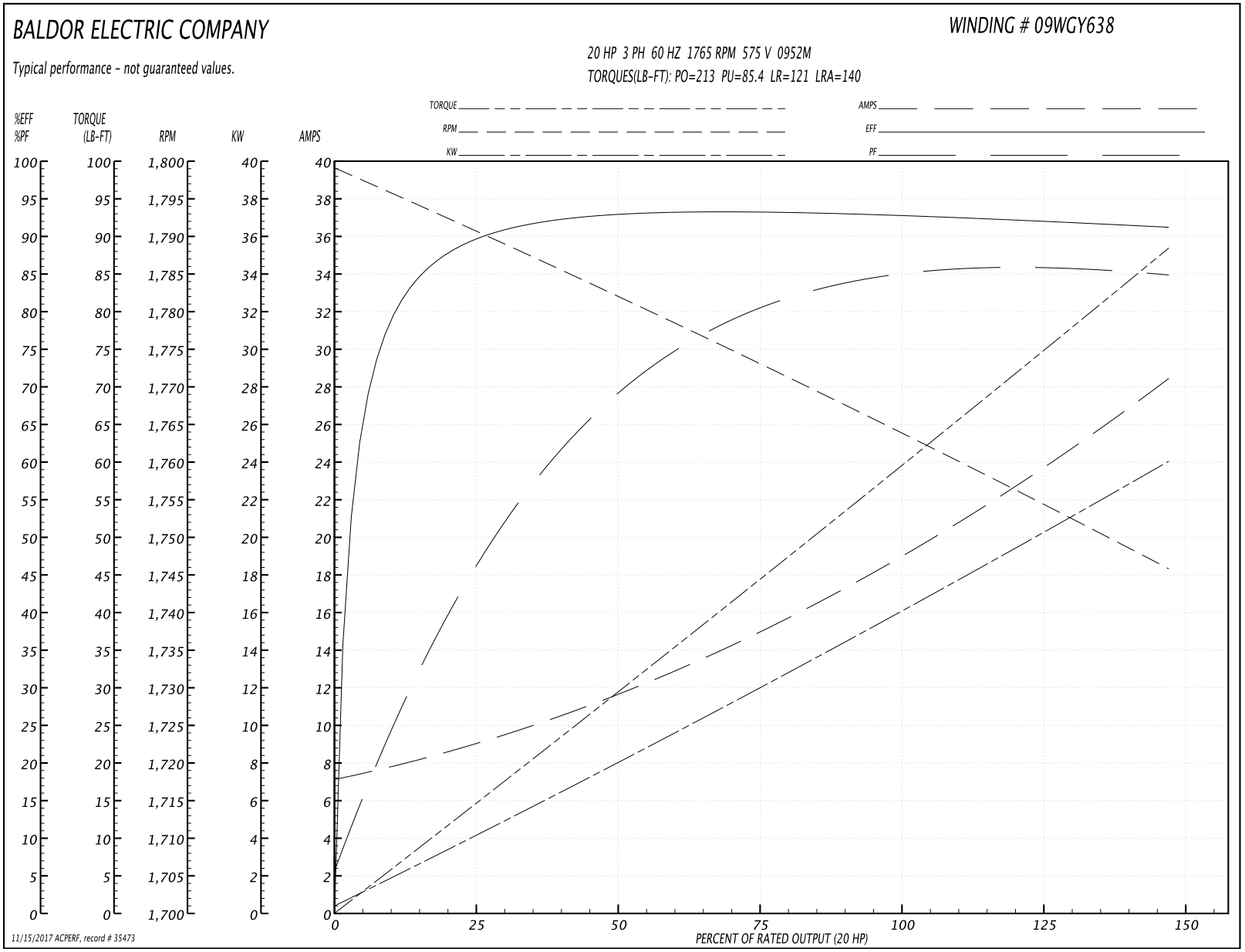
Winding: 09WGY638-R010	**Type:** 0952M	**Enclosure:** TEFC

Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	59 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	19.2			Breakdown Torque	213 LB-FT
R.P.M.	1765			Pull-up Torque	85.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	121 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	140 A
Service Factor (S.F.)	1.15			No-load Current	7.5 A
NEMA Nom. Eff.	93	Power Factor	84	Line-line Res. @ 25ºC	0.617 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	60°C
S.F. Amps				Temp. Rise @ S.F. Load	74°C
				Locked-rotor Power Factor	33
				Rotor inertia	2.27 LB-FT2

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	69	80	84	86	87	85
Efficiency	89	92.8	93.1	93	92.2	91.1	92.5
Speed	1791	1783	1770	1766	1756	1745	1760
Line amperes	8.6	11.2	15.3	19.2	23.3	28.3	21.6

Performance Graph at 575V, 60Hz, 20.0HP Typical performance - Not guaranteed values



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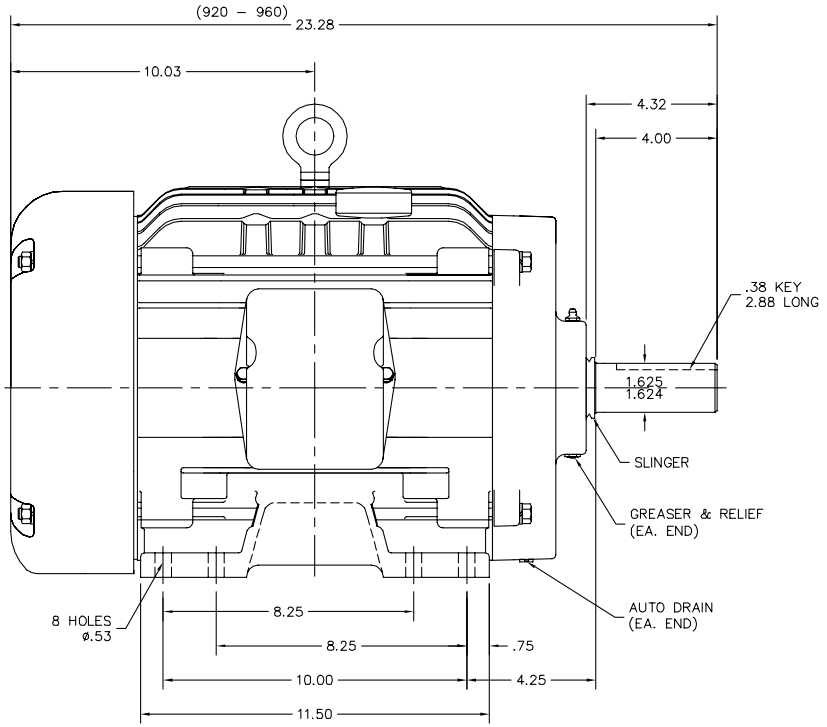
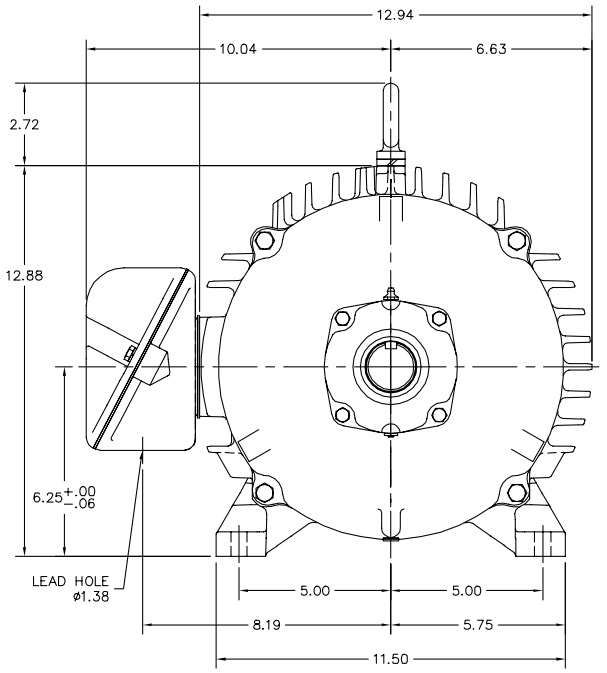




09LYP011

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

REV. DESC: CHG'D LAYOUT TO 920–960 ALL POLES		
REV. LTR: N	VERSION: 08	TDR: 000001046712
FILE: \AAA\00026\716	REVISED: 03:18:30 10/11/2017	BY: ENSTEB1
MTL: –		

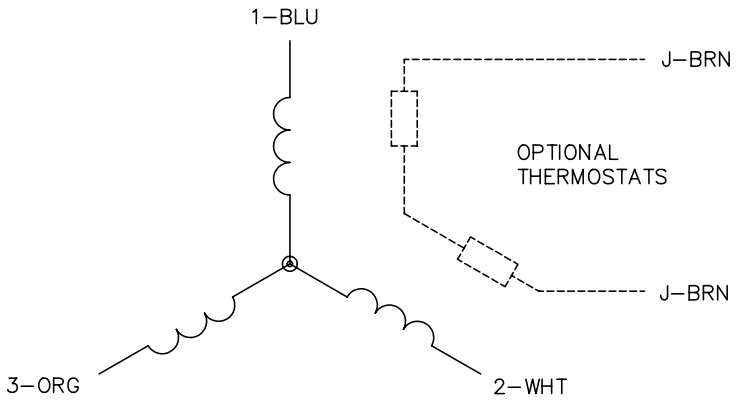
BALDOR

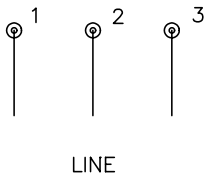
HORZ TEFC 254–6T SUPER–E

SH 1 of 1

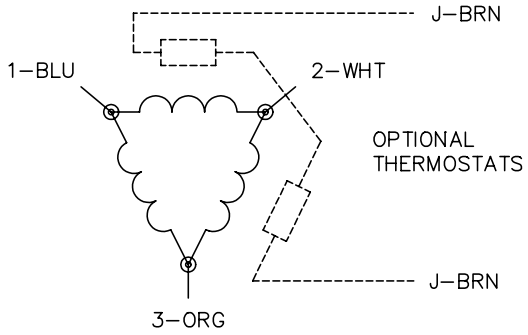
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435
9000CD		FILE: AAA00005141	MDL: –
		MTL: –	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006