

ABB BALDOR RELIANCE III

Customer information packet

8102WD

24M 4P GRNDR

Specifications

Enclosure	TENV
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
	50.00 Hz
	60.00 Hz
Motor Letter Type	Three Phase
Nameplate Output	.75
Number of Poles	4
	4
Output @ Frequency	.750 HP @ 60 HZ
	.750 HP @ 50 HZ
Phase	3
	3
Shaft Diameter	0.750 IN
	0.750 IN
Speed	1500 rpm
	1800 rpm
	1500 rpm
	1800 rpm
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage	208 V
	230 V
	460 V
Voltage @ Frequency	208.0 V @ 50 HZ
	208.0 V @ 60 HZ
	460.0 V @ 60 HZ
	460.0 V @ 50 HZ
	230.0 V @ 60 HZ
	230.0 V @ 50 HZ
Agency Approvals	CSA
Ambient Temperature	40 °C
Base Indicator	Rigid

Part Detail

Revision	-
Type	AC
Mech. spec.	G8-236
Base	
Status	PRD/A
Elec. spec.	G8WG0377
Layout	G8LY0236
Eff. date	10-31-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-25-2024

Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	3.000 A @ 230.0 V
	3.000 A @ 208.0 V
	1.500 A @ 460.0 V
Design Code	-
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Insulation Class	B
KVA Code	-
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Standards	Other
Motor Type	3524M
Mounting Arrangement	F1
Overall Length	23.24 IN
Product Family	Grinder
Service Factor	1.00
Shaft Rotation	Phase Seq-Opp Std Rot (CWOE)
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0113			
CAT.NO.	8102WD		
HP	.75	VOLTS	208-230/460
PHASE	3	AMPS	3/1.5
HZ	50//60	RPM	1500//1800
SER.NO			
SPEC.	G8-236G0377		

Accessories

Part number	Description	Multiplier
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA20E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
B80	8" 36 GRIT GRINDING WHEEL	A8
B81	8" 60 GRIT GRINDING WHEEL	A8
GA9	PAIR LIGHTED EYESHIELDS	A8
GA9-1	SINGLE LIGHTED EYESHIELD	A8
GA9S	PAIR EYESHIELDS W/ ON-OFF SWITCH	A8
GA11	PAIR EYESHIELDS	A8
DC8	DUST CONTROL UNIT	A8

AC Induction Motor Performance Data

Record # 91058

Preliminary Data Sheet

Winding: G8WG0377-R001		Type: G824M	Enclosure: TENV
Nameplate Data		460 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	.75	Full Load Torque	2.69 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	2.75-2.9/1.45//2.48-2.4/1.2	Breakdown Torque	15.71 LB-FT
R.P.M.	1500//1800	Pull-up Torque	12.63 LB-FT
Hz	50//60 Phase	Locked-rotor Torque	14.64 LB-FT
NEMA Design Code	- KVA Code	Starting Current	13.78 A
Service Factor (S.F.)	1	No-load Current	1.3 A
NEMA Nom. Eff.	0 Power Factor	Line-line Res. @ 25°C	24 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	77°C
		Locked-rotor Power Factor	83.3954
		Rotor inertia	0.173 lb-ft ²

Load Characteristics 460 V, 50 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	24	36	47	58	66	72
Efficiency	57.6	71.5	77.2	79	80	79.8
Speed	1489	1480	1470	1460	1449	1438
Line amperes	1.31	1.35	1.43	1.54	1.67	1.83

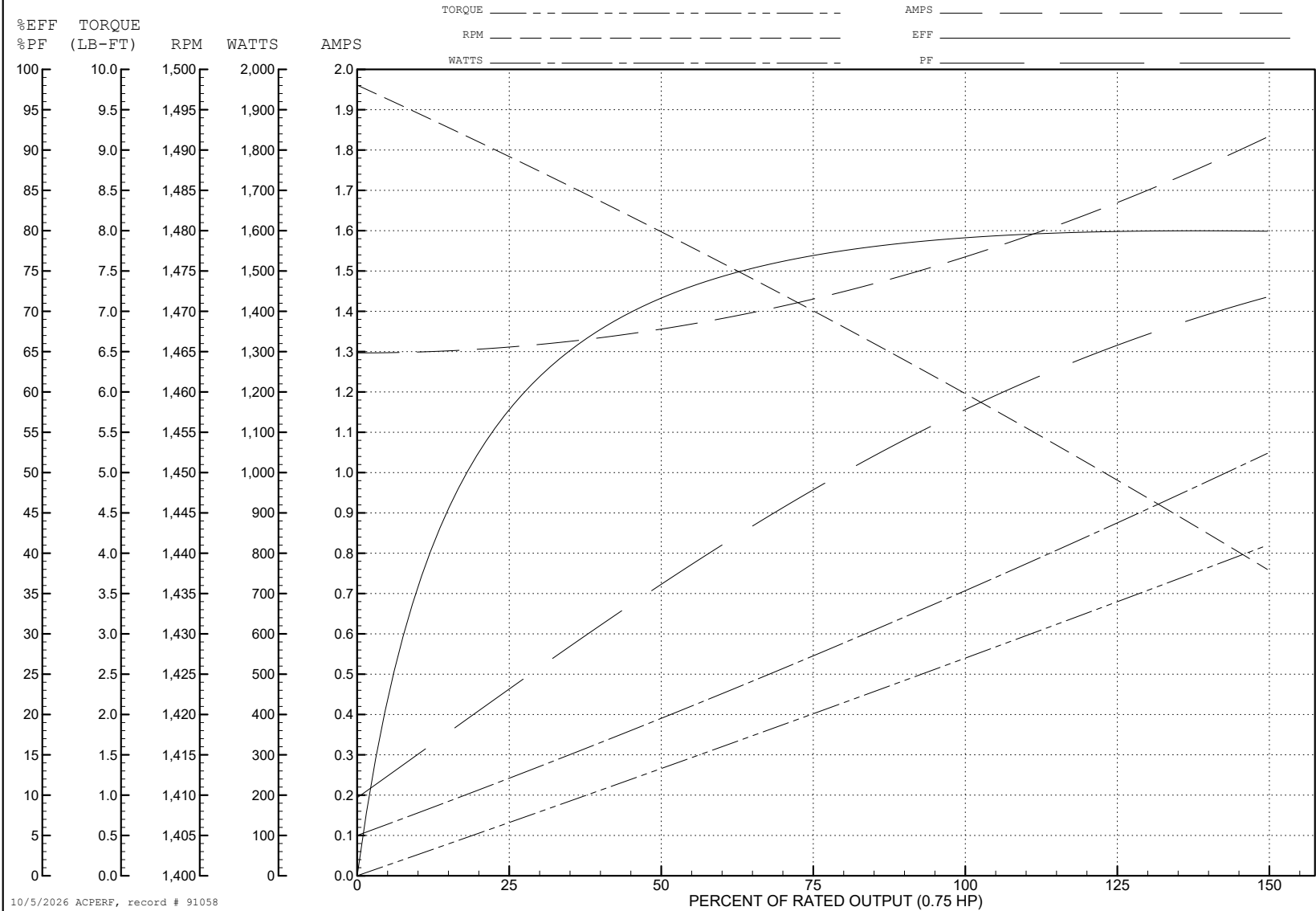
ABB Motors and Mechanical Inc.

WINDING # G8WG0377

0.75 HP 3 PH 50 HZ 1460 RPM 460 V G824M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=15.71 PU=12.63 LR=14.64 LRA=13.78



AC Induction Motor Performance Data

Record # 91059

Preliminary Data Sheet

Winding: G8WG0377-R001			Type: G824M		Enclosure: TENV			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.75	Full Load Torque		2.25 LB-FT			
Volts		208-230/460	Start Configuration		direct on line			
Full Load Amps		2.75-2.9/1.45//2.48-2.4/1.2	Breakdown Torque		12.14 LB-FT			
R.P.M.		1500//1800	Pull-up Torque		9.18 LB-FT			
Hz		50//60	Phase		3	Locked-rotor Torque	10.64 LB-FT	
NEMA Design Code		-	KVA Code		-	Starting Current	12.71 A	
Service Factor (S.F.)		1	No-load Current		0.946 A			
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C	24 Ω	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load			55°C
					Locked-rotor Power Factor			77.6342
					Rotor inertia			0.173 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	44	57	67	74	79
Efficiency	65.5	77	81.4	82.7	82.7	82
Speed	1787	1776	1765	1752	1739	1725
Line amperes	0.965	1.03	1.13	1.27	1.43	1.62

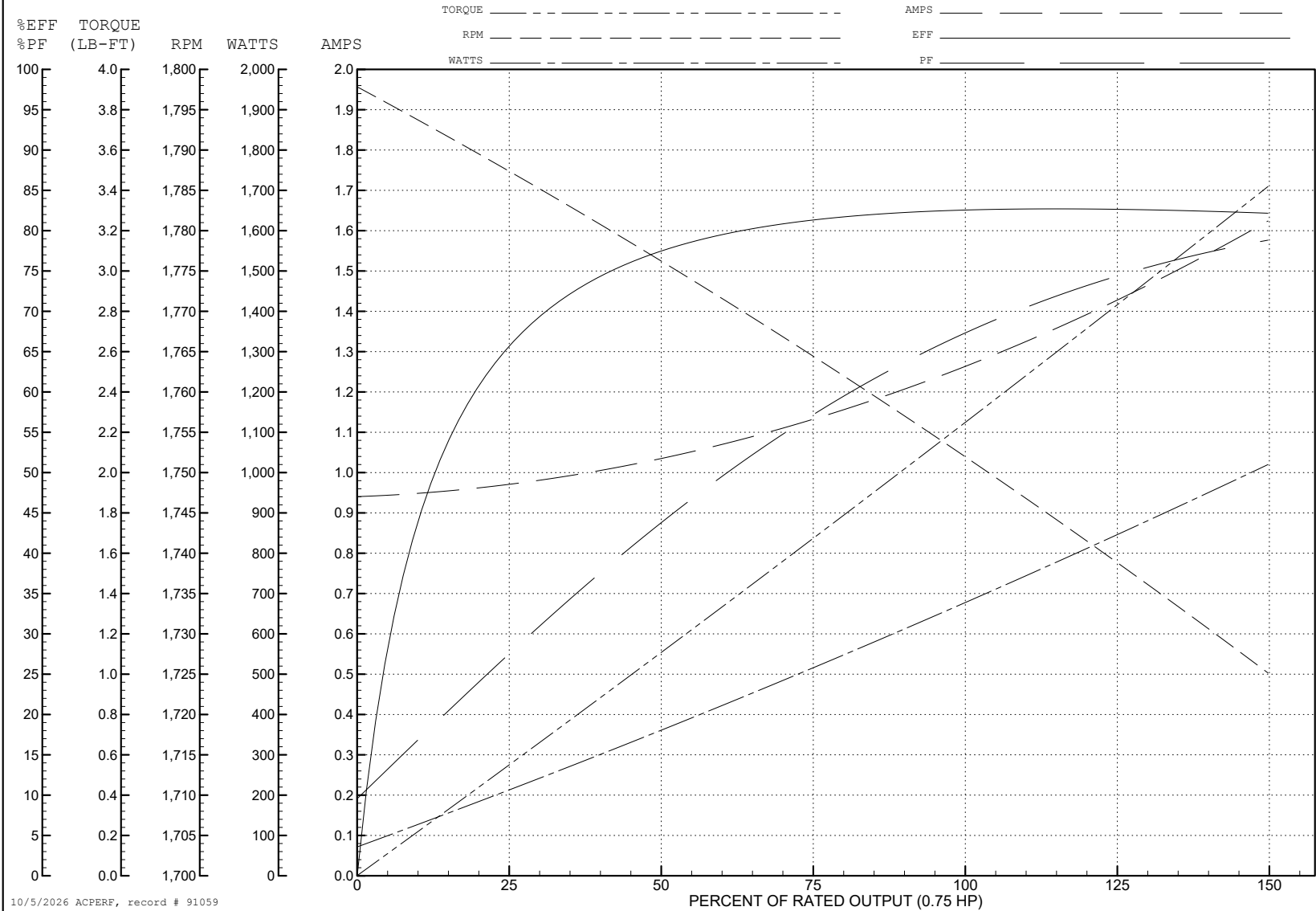
ABB Motors and Mechanical Inc.

WINDING # G8WG0377

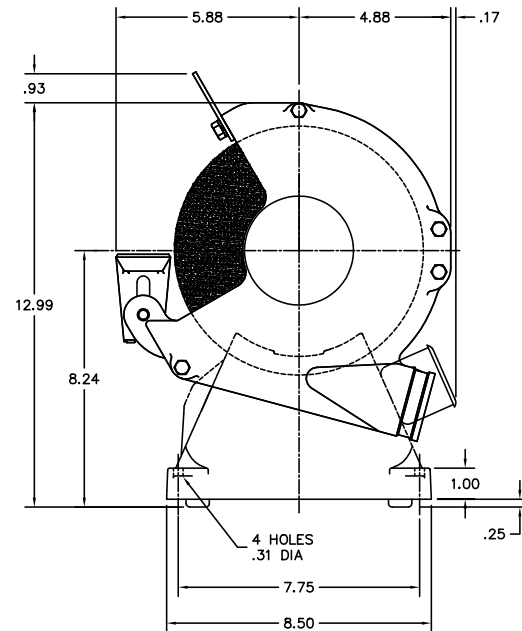
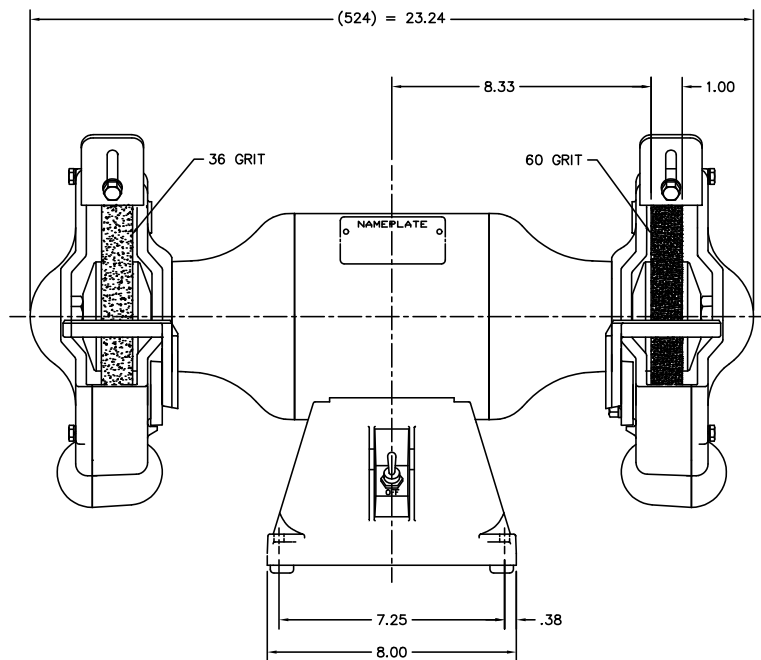
Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1752 RPM 460 V G824M

TORQUES (LB-FT): PO=12.14 PU=9.18 LR=10.64 LRA=12.71



GBLY0236



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

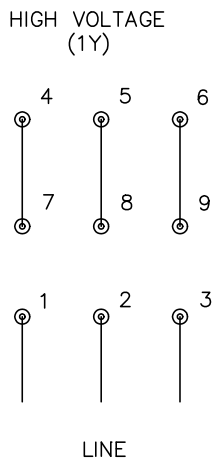
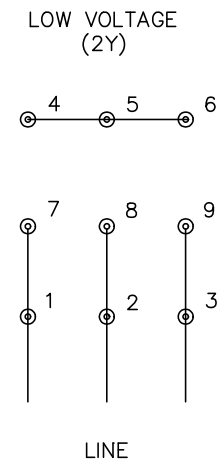
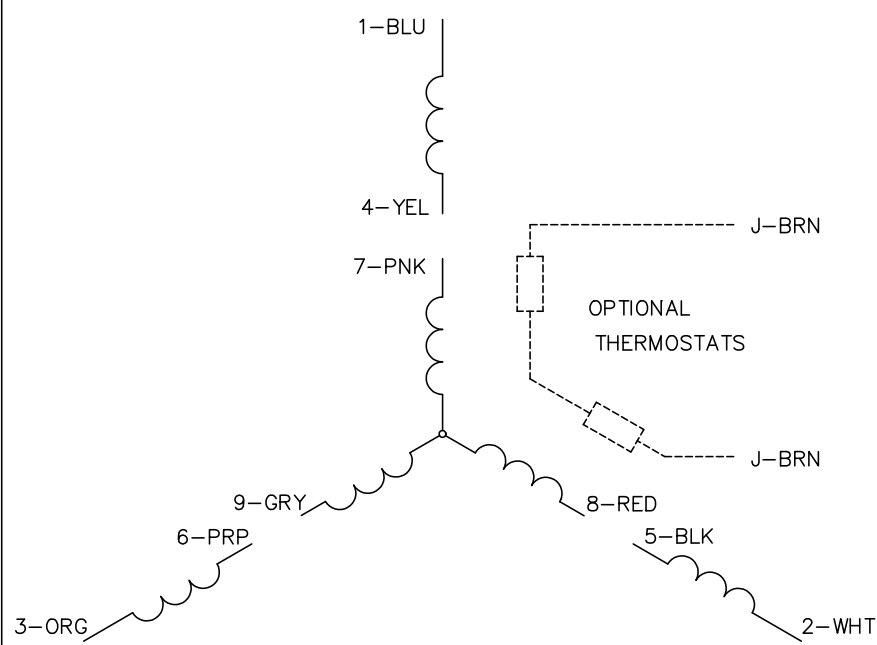
REV. DESC:	OMITTED FELT WSHR HA1025A03 & CHG'D TO SEALED BRGS
REV. LTR:	D BY: SSS REVISED: 09/29/00 2:38 TDR: 0212666
FILE:	AAA00036170 REF: -
MTL:	-

BALDOR ELECTRIC Co.

STD 8" GRINDER 524M W/EYESHIELDS, WATER POT, TOOL REST

GBLY0236

CD0005



- 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

