ABB BALDOR RELIANCE

Customer information packet

VECP3664T

2HP, 1165RPM, 3PH, 60HZ, 184TC, 0642M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.8
Current @ Voltage	6.300 A @ 230.0 V
	6.600 A @ 208.0 V
	3.200 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %

Part Detail

Revision	Q
Type	AC
Mech. spec.	06H480
Base	
Status	PRD/A
Elec. spec.	06WGW970
Layout	06LYH480
Eff. date	10-01-2025
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	12-02-2010

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.98 IN
Power Factor	68
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1165 rpm
Speed Code	Single Speed

Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3257								
CAT.NO.	VECP3664T							
SPEC.	06H480W970G1							
HP	2 TE							
VOLTS	208-230/460							
AMP	6.6-6.3/3.2							
RPM	1165							
FRAME	184TC	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6206	**ODE**	6206					
NEMA-NOM-EFF	88.5	**PF**	68					
G.MIN.EFF	88.5	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	06H480W970G1				
D.E. BRG.	30BC02XP30X				
O.D.E. BRG.	30BC02XP30X				
GREASE	POLYREX EM				
RPM MAX		**MAX. KVAR**	N/A		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	1.8	**CT HZ TO**	60		
VT HZ FROM	0-	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

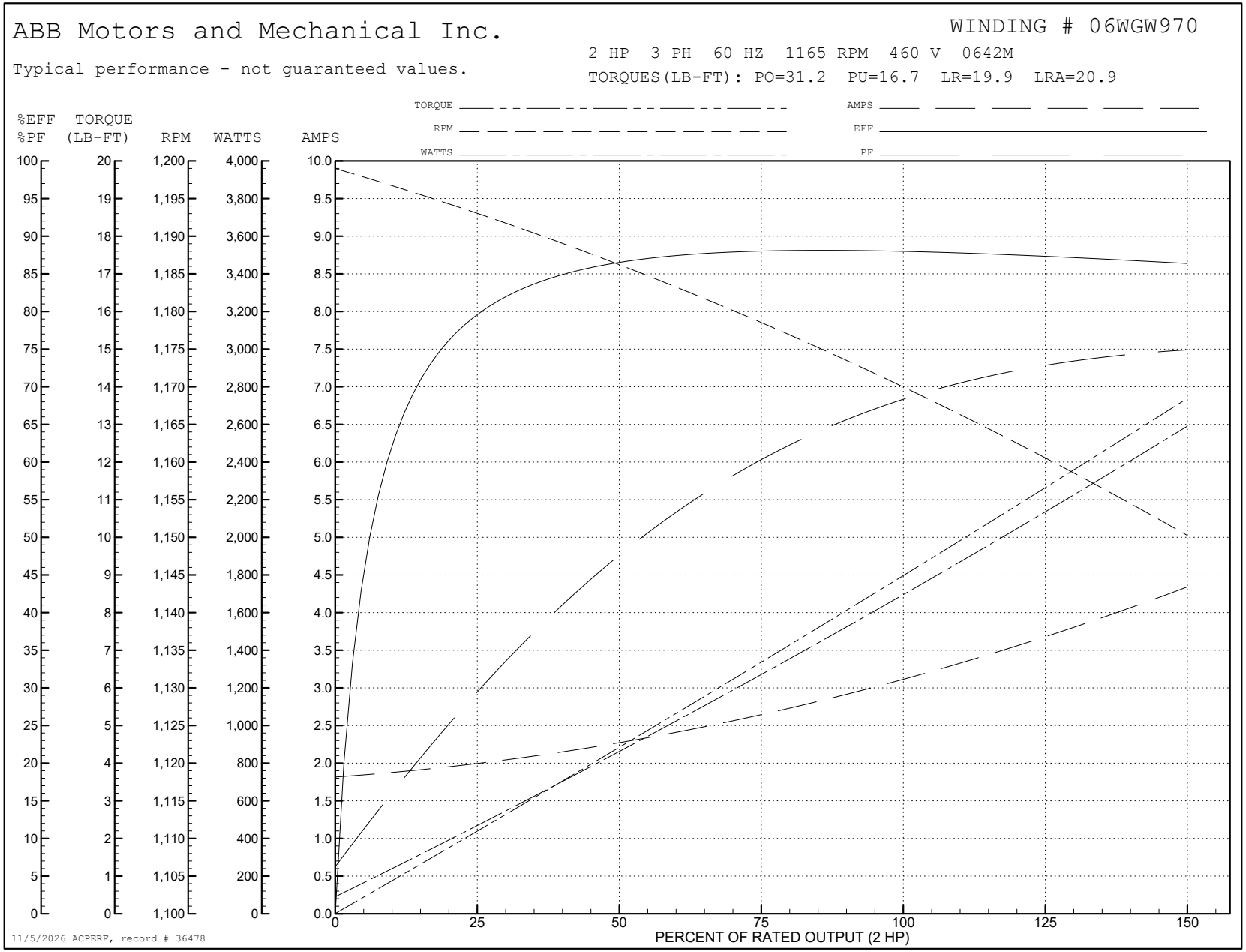
AC Induction Motor Performance Data
Record # 36478
Typical performance - not guaranteed values

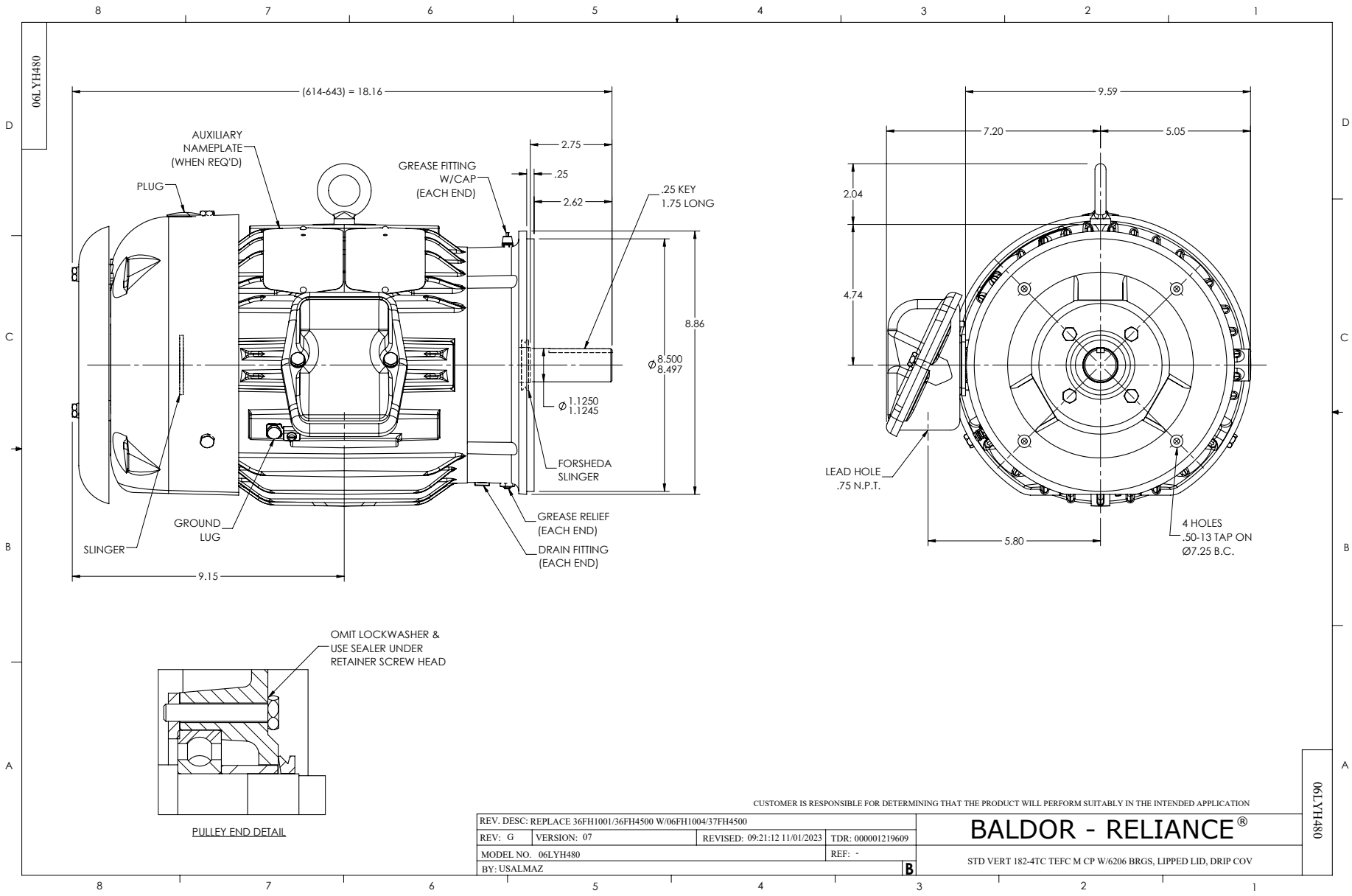
Winding: 06WGW970-R004	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	9.01 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			6.6-6.3/3.2	**Breakdown Torque**	31.2 LB-FT
R.P.M.			1165	**Pull-up Torque**	16.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	19.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	20.9 A
Service Factor (S.F.)			1.15	**No-load Current**	1.84 A
NEMA Nom. Eff.	88.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	5.13 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	27°C
S.F. Amps				**Temp. Rise @ S.F. Load**	32°C
				Locked-rotor Power Factor	29
				Rotor inertia	0.395 LB-FT2

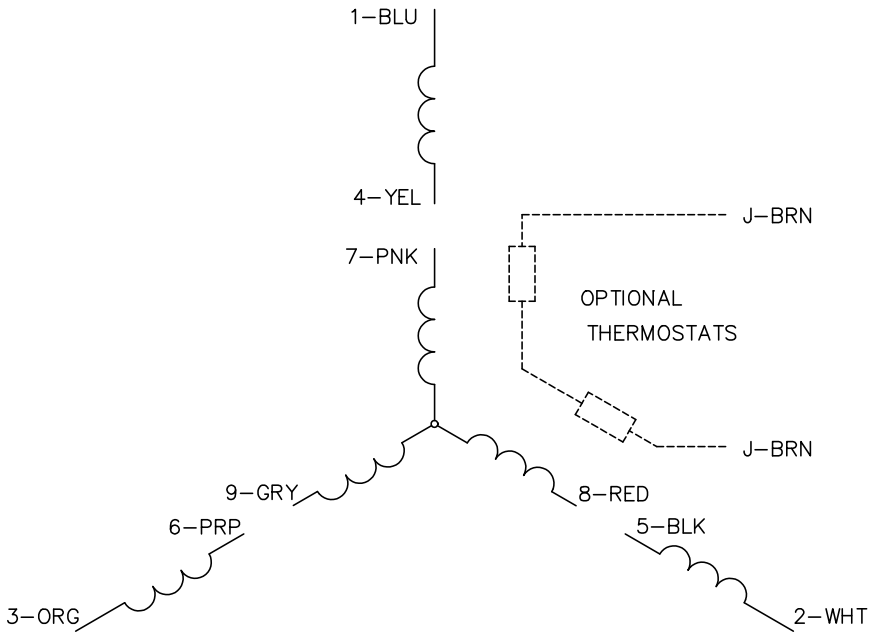
Load Characteristics 460 V, 60 Hz, 2 HP

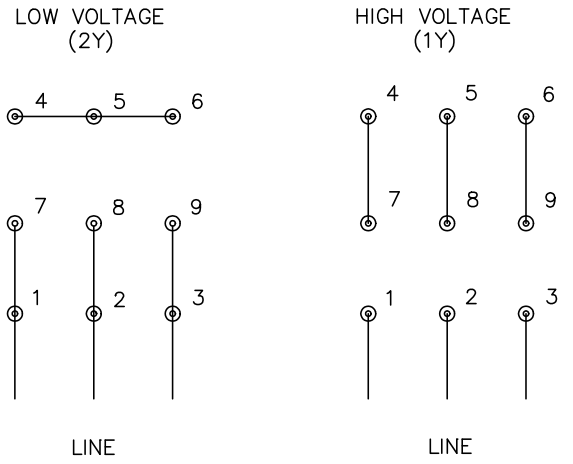
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	48	60	68	73	75	71
Efficiency	79.2	86.4	88.1	88.3	87.4	86.3	87.8
Speed	1193	1186	1178	1170	1161	1150	1165
Line amperes	1.97	2.26	2.67	3.14	3.68	4.33	3.46


ABB Motors and Mechanical Inc.
WINDING # 06WGW970
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1165 RPM 460 V 0642M
TORQUES(LB-FT): PO=31.2 PU=16.7 LR=19.9 LRA=20.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/5/2026 ACPERF, record # 36478


06LYH480
(614-643) = 18.16
AUXILIARY NAMEPLATE (WHEN REQ'D)
PLUG
GREASE FITTING W/CAP (EACH END)
2.75
.25
2.62
.25 KEY 1.75 LONG
8.86
Ø 8.500 8.497
Ø 1.1250 1.1245
FORSHEDA SLINGER
GREASE RELIEF (EACH END)
DRAIN FITTING (EACH END)
GROUND LUG
SLINGER
9.15
9.59
7.20
5.05
2.04
4.74
LEAD HOLE .75 N.P.T.
5.80
4 HOLES .50-13 TAP ON Ø7.25 B.C.
OMIT LOCKWASHER & USE SEALER UNDER RETAINER SCREW HEAD
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REPLACE 36FH1001/36FH4500 W/06FH1004/37FH4500
REV: G
VERSION: 07
REVISED: 09:21:12 11/01/2023
TDR: 000001219609
MODEL NO. 06LYH480
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT 182-4TC TEFC M CP W/6206 BRGS, LIPPED LID, DRIP COV
06LYH480

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS