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# Customer information packet

## VEM3661T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1

ELECTRIC MOTOR WHOLESAL.COM

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.100 A @ 460.0 V 8.200 A @ 230.0 V 8.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	J
Type	AC
Mech. spec.	06H016
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYH016
Eff. date	07-19-2017
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	10-04-2011

High Voltage Full Load Amps	4.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.00 IN
Power Factor	77
Product Family	General Purpose
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	No Slinger
Speed	1755 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**

**NP3441LUA**

<b>CAT.NO.</b>	VEM3661T							
<b>SPEC</b>	06H016X181G1							
<b>HP</b>	3							
<b>VOLTS</b>	230/460							
<b>AMPS</b>	8.2/4.1							
<b>RPM</b>	1755							
<b>FRAME</b>	182TC	<b>HZ</b>	60	<b>PH</b>	3			
<b>SF</b>	1.15	<b>CODE</b>	J	<b>DES</b>	B	<b>CLASS</b>	F	
<b>NEMA NOM. EFF</b>	89.5	<b>PF</b>	77					
<b>RATING</b>	40C AMB-CONT							
<b>CC</b>	010A	<b>USABLE AT 208V</b>				8.6		
<b>ENCL</b>	TEFC	<b>SER</b>						
<b>DE</b>	6206	<b>ODE</b>	6205					
<b>VPWM INVERTER READY</b>								
<b>CT6-60H(10:1)VT3-60H(20:1</b>	50Hz 3HP 190/380V 9.6/4.8A						SF1.0	

## Parts list

Part number	Description	Quantity
SA231973	SA 06H016X181G1	1.000 ea
RA218983	RA 06H016X181G1	1.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB3000	BALDOR CONDUIT BOX CAST	1.000 ea
06GS1000	GASKET, CONDUIT BOX	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
36FE1101A21	FREP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36PE1300A13	PU ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
10XN2520A26	1/4-20X 1 5/8 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HA3101A34	THRUBOLT- 1/4-20 X 10.375	4.000 ea
36FH4009A31	IEC FH W/GREASER & SPL NOTCH, W/ PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
06CB3500	BALDOR CONDUIT BOX LID	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
LB1115N	LABEL, LIFTING DEVICE (ON ROLLS)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 ga

LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A06	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 ea

**AC Induction Motor Performance Data**

Record # 35861

Typical performance - not guaranteed values

<b>Winding: 06WGX181-R006</b>		<b>Type: 0632M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>		3	<b>Full Load Torque</b>		9.06 LB-FT
<b>Volts</b>		230/460	<b>Start Configuration</b>		direct on line
<b>Full Load Amps</b>		8.2/4.1	<b>Breakdown Torque</b>		33.1 LB-FT
<b>R.P.M.</b>		1755	<b>Pull-up Torque</b>		18.2 LB-FT
<b>Hz</b>	60 Phase	3	<b>Locked-rotor Torque</b>		20.4 LB-FT
<b>NEMA Design Code</b>	B KVA Code	J	<b>Starting Current</b>		29.8 A
<b>Service Factor (S.F.)</b>		1.15	<b>No-load Current</b>		2.14 A
<b>NEMA Nom. Eff.</b>	89.5 Power Factor	77	<b>Line-line Res. @ 25°C</b>		3.94 Ω
<b>Rating - Duty</b>		40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>		35°C
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>		42°C
			<b>Locked-rotor Power Factor</b>		41
			<b>Rotor inertia</b>		0.298 LB-FT <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 3 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	38	58	70	77	81	83	79
<b>Efficiency</b>	83.2	88.3	89.8	89.7	89.1	87.7	89.3
<b>Speed</b>	1790	1779	1769	1757	1744	1730	1749
<b>Line amperes</b>	2.34	2.79	3.39	4.1	4.91	5.86	4.59

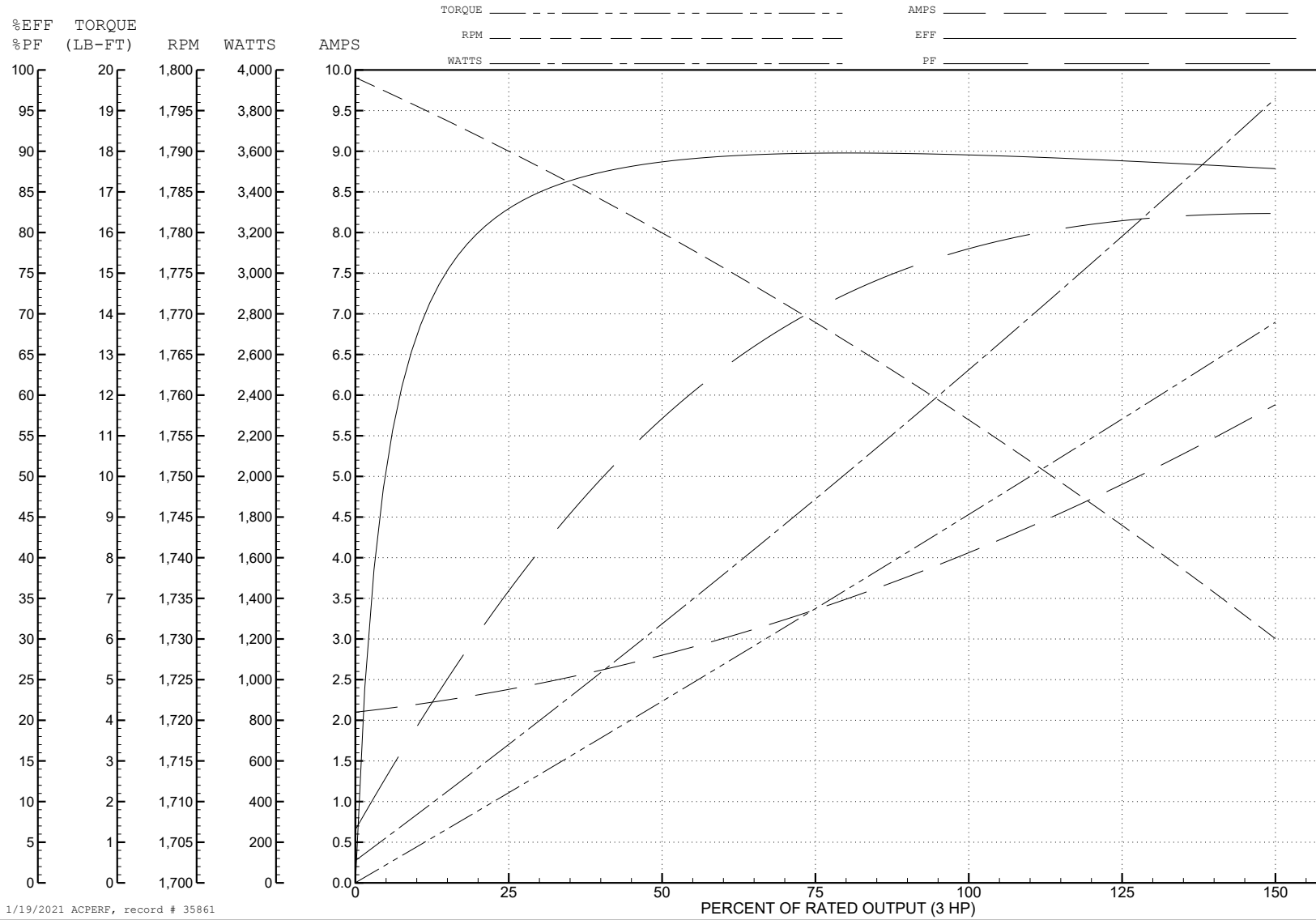
ABB Motors and Mechanical Inc.

WINDING # 06WGX181

3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M

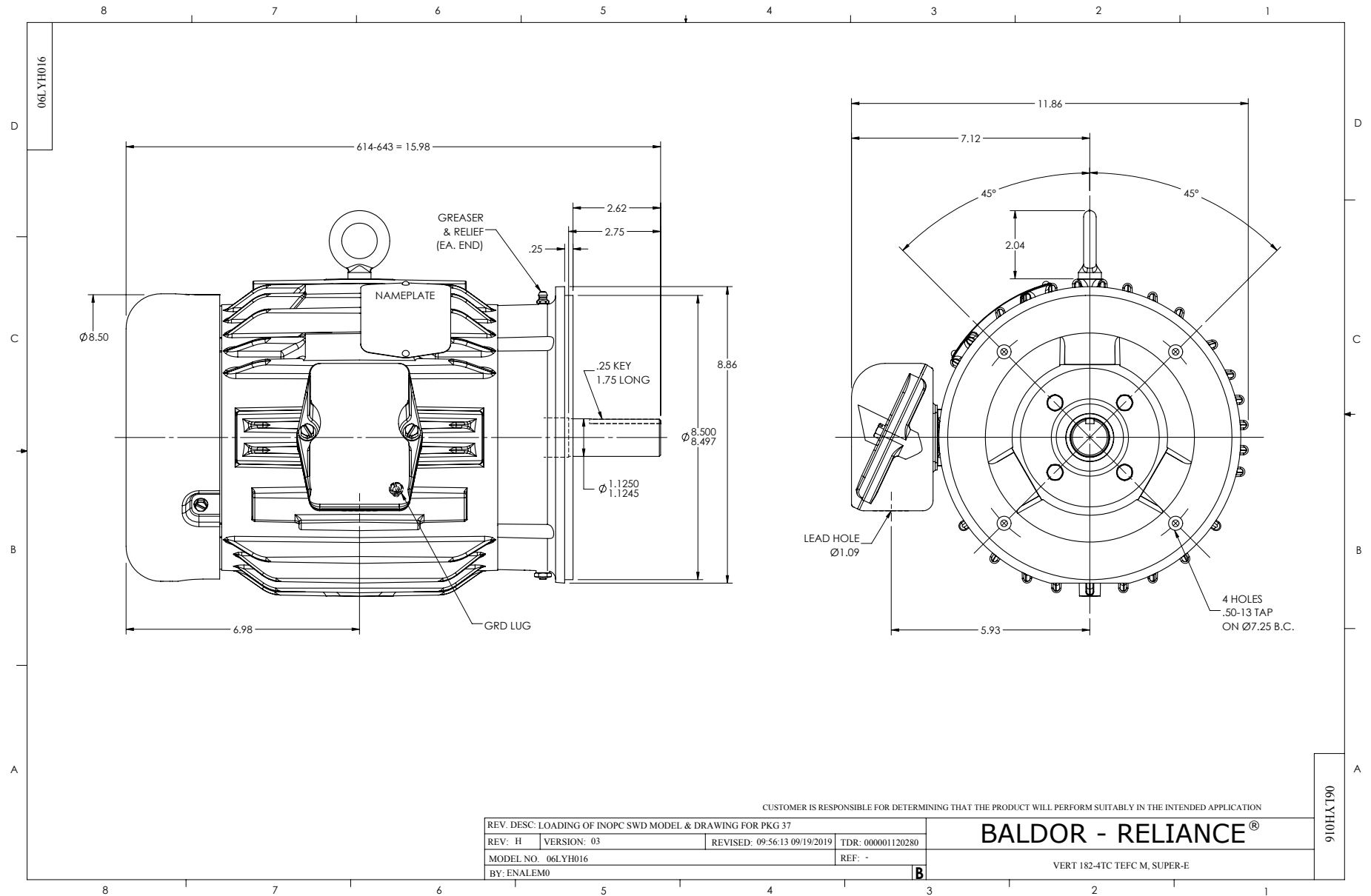
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8

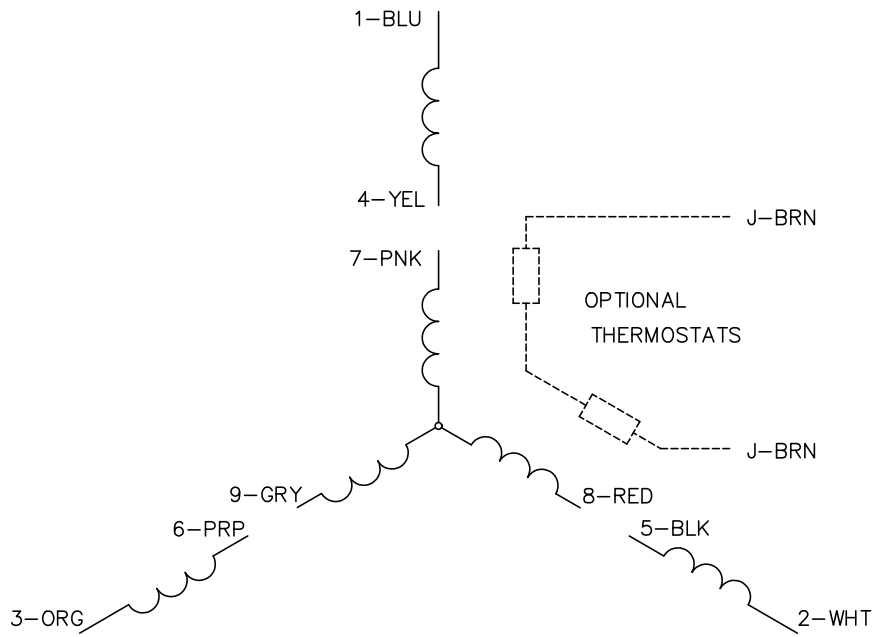


1/19/2021 ACPERF, record # 35861





CD0005

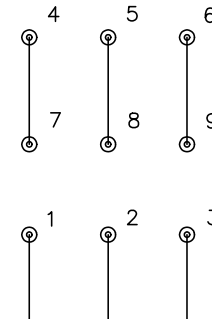


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS