

Motor Data

Project: _____ Model: _____ Chk'd: _____ Date: _____

Models DMLEU
Three Phase
3 to 30HP
60HZ
208/230V

Nameplate Rating	Output	HP	3	5	7½	10	15	20	30
		kW	2.2	3.7	5.5	7.5	11	15	22
	Phase		3	3	3	3	3	3	3
	Poles		4	4	4	4	4	4	4
	Volts	V	208/230	208/230	208/230	208/230	208/230	208/230	208/230
	Amperes	A	10.3/9.8	16.2/15.4	23.7/23.0	30.4/29.8	42.8/41.2	57.6/54.6	78.6/73.2
	Speed	min ⁻¹	1700/1720	1700/1720	1725/1740	1735/1750	1745/1750	1750/1760	1765/1770
	Insulation Class		F	F	F	F	F	F	F
Capacitor	Start	µF	—	—	—	—	—	—	—
	Run	µF	—	—	—	—	—	—	—
No Load Test	Amperes	A	3.55/4.44	5.43/6.84	9.09/11.64	11.25/14.53	13.46/17.64	17.13/22.20	21.28/26.97
	Watts	W	650/750	750/1100	1200/1400	1200/1450	1175/1600	1780/2150	1800/2100
Resistance at 20°C		Ω	1.89	0.975	0.502	0.354	0.257	0.164	0.083
100% Load	Amperes	A	10.3/9.8	16.2/15.4	23.7/23.0	30.4/29.8	42.8/41.2	57.6/54.6	78.6/73.2
	Efficiency	%	66.68/64.68	69.96/69.03	72.89/71.13	77.48/74.90	80.48/78.26	80.23/79.27	86.45/86.63
	Power Factor	%	89.32/86.28	90.24/87.28	88.29/84.13	88.15/84.12	88.41/85.46	89.88/86.80	89.84/87.49
	Speed	min ⁻¹	1702/1721	1707/1728	1732/1743	1743/1755	1748/1757	1754/1763	1767/1773
Locked Rotor Torque		%	184/219	205/245	232/278	237/287	153/184	168/201	144/173
Starting Current		A	48.4/53.0	88.7/97.8	150.7/166.6	209.9/229.6	240.3/264.6	375.0/413.8	528.6/584.4
Number Starts Per Hour			20	20	20	20	20	20	20
Design Standard			JEC37						
Voltage Tolerance		%	-10 to 6%	±10%	±10%	±10%	±10%	±10%	±10%
Frequency Tolerance		%	±5%	±5%	±5%	±5%	±5%	±5%	±5%

Motor Data

Project: _____ Model: _____ Chk'd: _____ Date: _____

Models DMLEU
Three Phase
3 to 30HP
60HZ
460V

Name-Plate Rating	Output	HP	3	5	7½	10	15	20	30
		kW	2.2	3.7	5.5	7.5	11	15	22
	Phase		3	3	3	3	3	3	3
	Poles		4	4	4	4	4	4	4
	Volts V		460	460	460	460	460	460	460
	Amperes A		4.9	7.7	11.5	14.9	20.6	27.3	36.6
	Speed min ⁻¹		1720	1720	1740	1750	1750	1760	1770
	Insulation Class		F	F	F	F	F	F	F
Capacitor µF		Start	—	—	—	—	—	—	
		Run	—	—	—	—	—	—	
No Load Test		Amperes A	2.22	3.42	5.82	7.27	8.82	11.1	13.48
		Watts	750	1100	1400	1450	1600	2150	2100
Resistance at 20°C		OHMS Ω	6.953	3.592	1.842	1.248	0.863	0.549	0.289
100% Load	Current Amp.	4.9	7.7	11.5	14.9	20.6	27.3	36.6	
	Efficiency %	64.68	69.03	71.13	74.9	78.26	79.27	86.63	
	Power Factor %	86.28	87.28	84.13	84.12	85.46	86.8	87.49	
	Speed min ⁻¹	1721	1728	1743	1755	1757	1763	1773	
Locked Rotor Torque		%	222	248	278	287	184	201	173
Starting Current		A	26.5	48.9	83.3	114.8	132.3	206.9	292.2
Number Starts Per Hour			20	20	20	20	20	20	20
Design Standard			JEC37						
Voltage Tolerance		%	-10 to +6%	±10%	±10%	±10%	±10%	±10%	±10%
Frequency Tolerance		%	±5%	±5%	±5%	±5%	±5%	±5%	±5%



Motor Specification

Project: _____ Model: _____ Chk'd: _____ Date: _____

Power Cable Specification

OUTPUT		PHASE	VOLTAGE V	GAUGE mm ²	NUMBER OF COND.	DETAILS OF CONDUCTOR		INSULATOR THICKNESS mm	SHEATH THICKNESS mm	CABLE O.D. mm	CONDUCTOR RESISTANCE at 20 °C/km
HP	KW					QTY/DIA. OF WIRE PCS/mm	DIAMETER mm				
3	2.2	THREE	208/230/460	2	4	37/0.26	1.8	0.8	1.8	11.8	9.79
5	3.7	THREE	208/230/460	2	4	37/0.26	1.8	0.8	1.8	11.8	9.79
					3	37/0.26	1.8	0.8	1.8	10.9	9.79
7½	5.5	THREE	208/230/460	3.5	4	45/0.32	2.5	0.8	2	13.9	5.24
					3	45/0.32	2.5	0.8	1.9	12.6	5.24
10	7.5	THREE	208/230/460	3.5	4	45/0.32	2.5	0.8	2	13.9	5.24
					3	45/0.32	2.5	0.8	1.9	12.6	5.24
15	11	THREE	208/230/460	3.5	4	45/0.32	2.5	0.8	2	13.9	5.24
					3	45/0.32	2.5	0.8	1.9	12.6	5.24
20	15	THREE	208/230/460	5.5	4	70/0.32	3.1	1	2.1	16.5	3.37
					3	70/0.32	3.1	1	2	15	3.37
30	22	THREE	208/230/460	14	4	88/0.45	4.9	1	2.4	22	1.43
					3	88/0.45	4.9	1	2.3	20	1.43

Sensor Cable Specifications

OUTPUT		PHASE	VOLTAGE V	GAUGE AWG	NUMBER OF COND.	DETAILS OF CONDUCTOR		INSULATOR THICKNESS mm	SHEATH THICKNESS mm	CABLE O.D. mm	CONDUCTOR RESISTANCE at 20 °C/km
HP	KW					QTY/DIA. OF WIRE PCS/mm	DIAMETER mm				
3	2.2	THREE	208/230/460	#16	2	50/0.18	1.25	0.8	1.7	9.6	15.1
5-30	3.7-22				4			11	1.8		

Motor Wiring Diagram

Project:

Model:

Chk'd:

Date:

Output 3HP
208/230V

LINE CABLE

E- GREEN

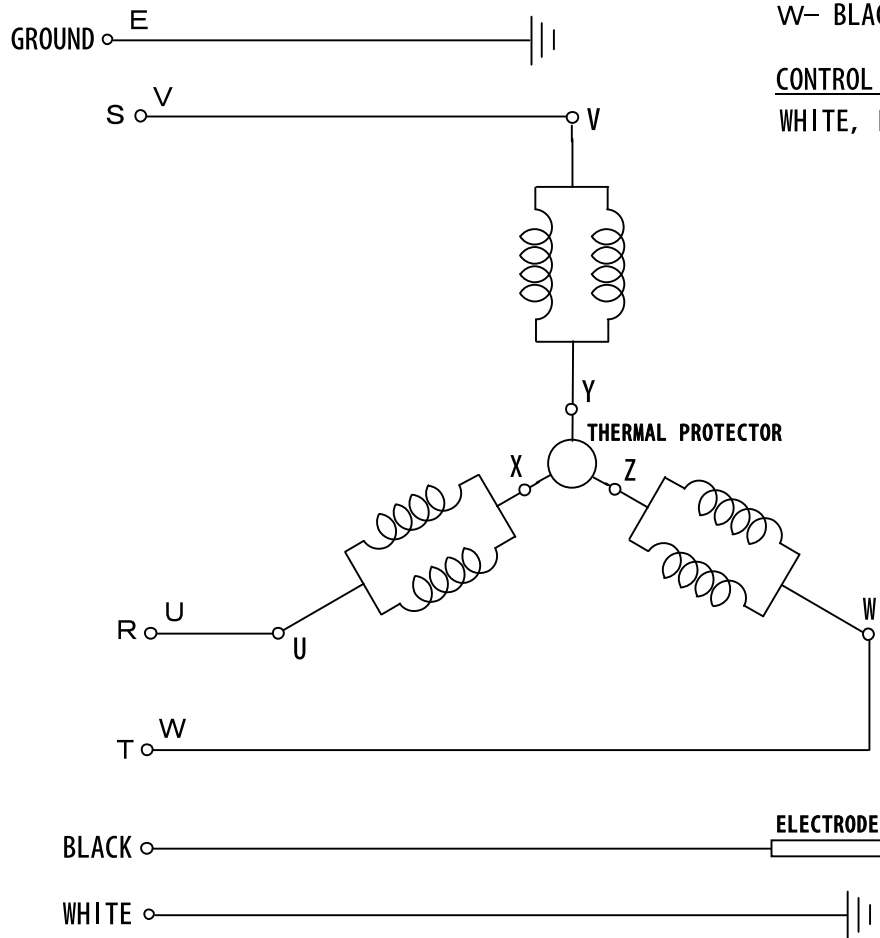
U- RED

V- WHITE

W- BLACK

CONTROL CABLE

WHITE, BLACK



Motor Wiring Diagram

Project: _____ Model: _____ Chk'd: _____ Date: _____

Output 3HP
460V

LINE CABLE

E- GREEN

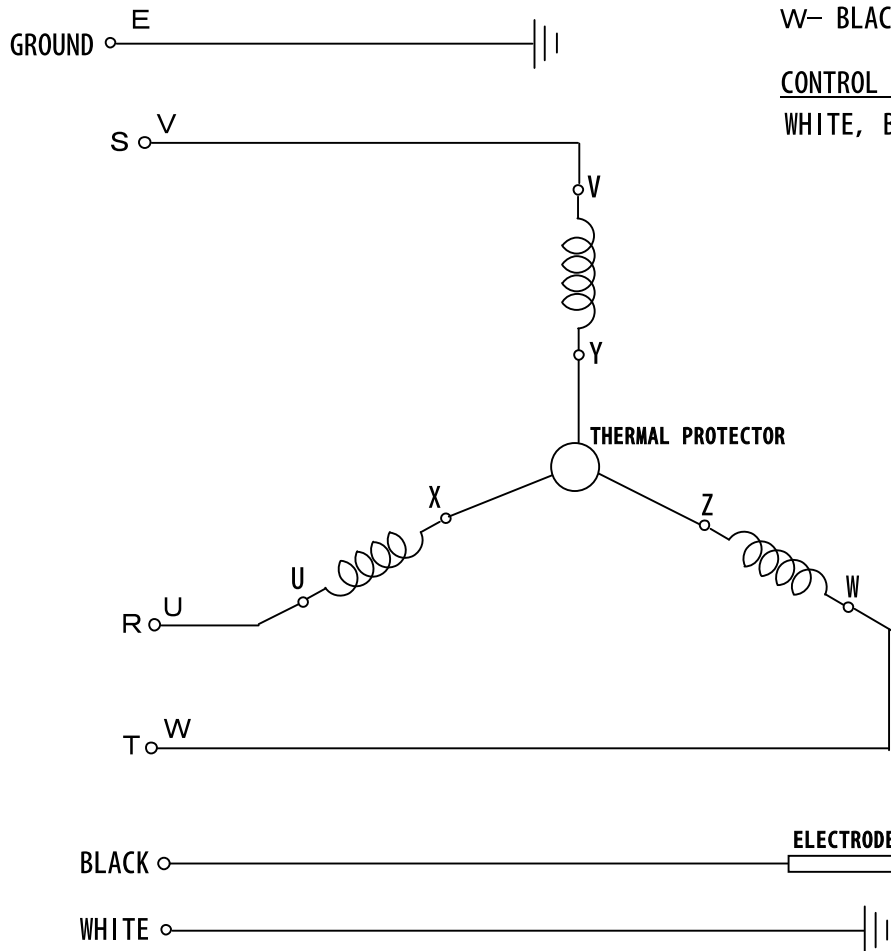
U- RED

V- WHITE

W- BLACK

CONTROL CABLE

WHITE, BLACK



Motor Wiring Diagram

Project: _____ Model: _____ Chk'd: _____ Date: _____

Output 5, 7.5, 15, 20, 30HP
208/230V

LINE CABLE

E- GREEN

U- RED

Z- RED

V- WHITE

X- WHITE

W- BLACK

Y- BLACK

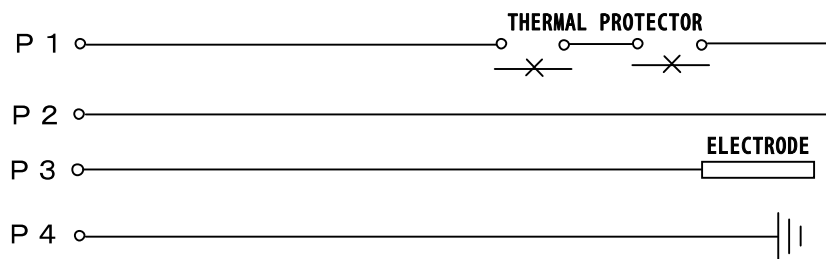
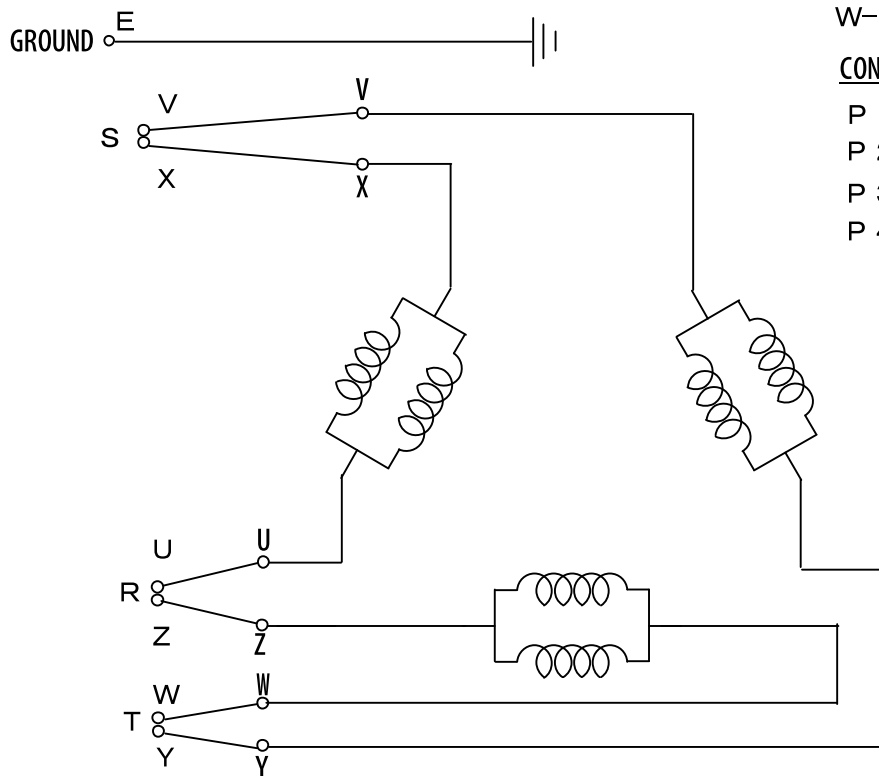
CONTROL CABLE

P 1- RED

P 2- WHITE

P 3- BLACK

P 4- GREEN



Motor Wiring Diagram

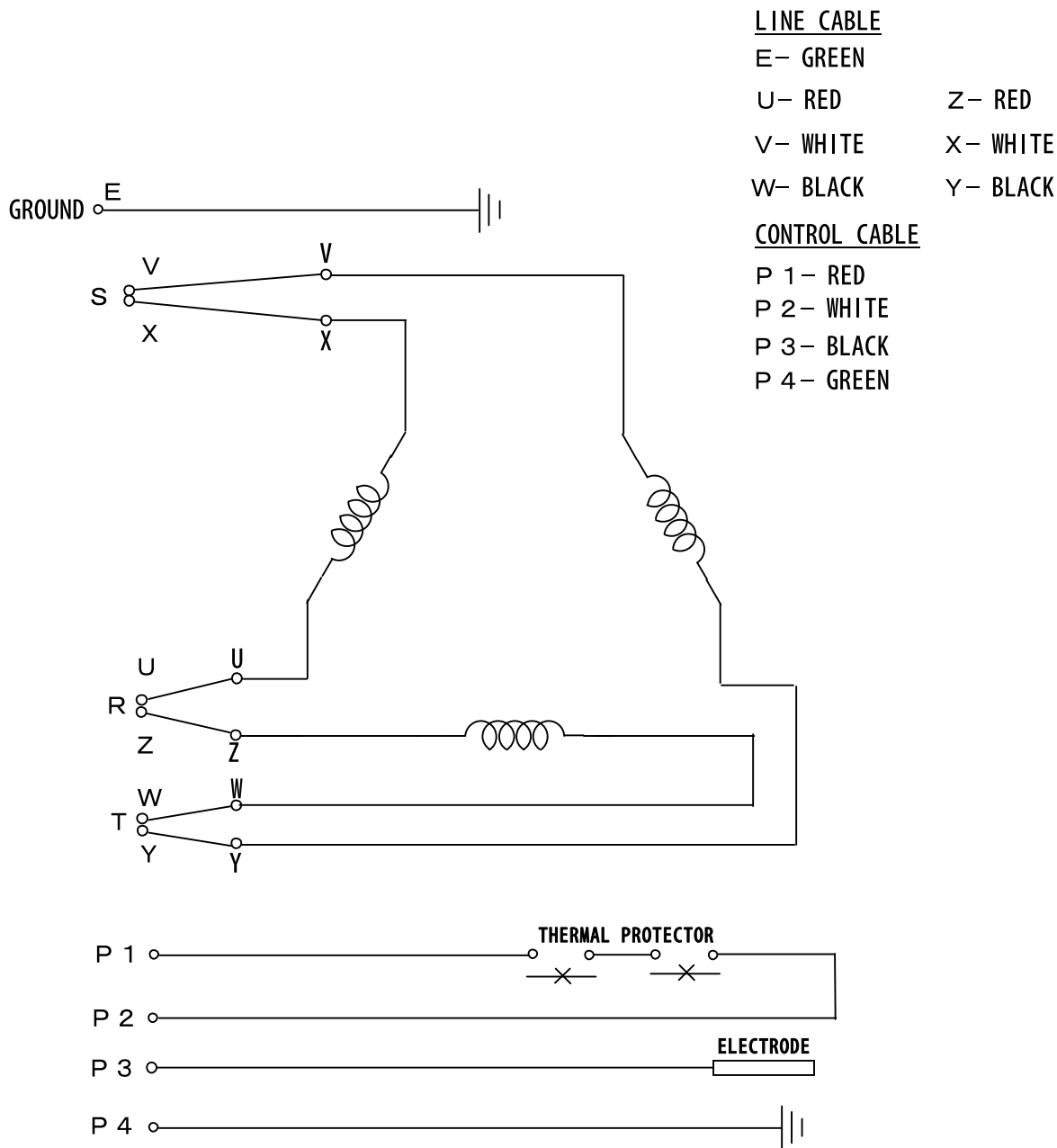
Project:

Model:

Chk'd:

Date:

Output 5, 7.5, 15, 20, 30HP
460V



Motor Wiring Diagram

Project:

Model:

Chk'd:

Date:

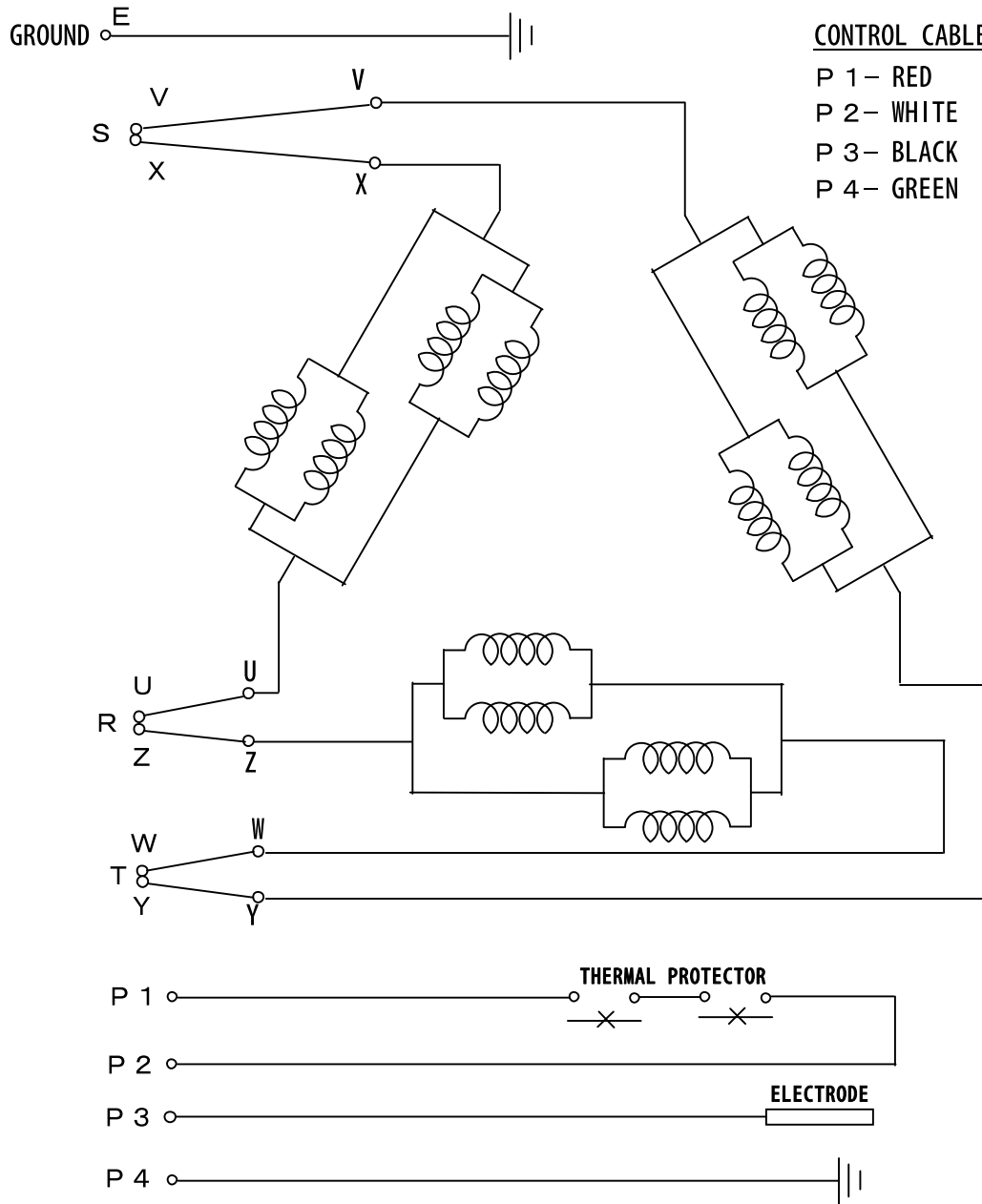
Output 10HP
208/230V

LINE CABLE

- E- GREEN
- U- RED Z- RED
- V- WHITE X- WHITE
- W- BLACK Y- BLACK

CONTROL CABLE

- P 1- RED
- P 2- WHITE
- P 3- BLACK
- P 4- GREEN



Motor Wiring Diagram

Project:

Model:

Chk'd:

Date:

Output 10HP
460V

LINE CABLE

- E- GREEN
- U- RED Z- RED
- V- WHITE X- WHITE
- W- BLACK Y- BLACK

CONTROL CABLE

- P 1- RED
- P 2- WHITE
- P 3- BLACK
- P 4- GREEN

