NOTE 4

WIRES AND CIRCUIT BREAKERS MUST BE RATED FOR THE CURRENT DRAW OF THE DEVICES USED. REFER TO OWNERS MANUAL FOR SPECIFIED WIRE GAUGE AND CURRENT CAPACITY.

NOTE 3

ALL CONTACTOR COILS REQUIRE A SNUBBER, EITHER CONTACTOR MANUFACTURERS RECOMMENDED SNAP ON SNUBBER OR CENTROID PN:1819 EXTERNAL QUENCHARC SNUBBER.

NOTE 1

110VAC SPINDLE COOLING FAN
110H-122 BLK connects from CNT1C/13NO to TB1/3A. Wire 110H-123 BLK connects to CNT1C/14NO.
Wire 110H-124 WHT connects to TB1/7A.

220VAC SPINDLE COOLING FAN
220-297 BLK connects from CB8/2 to CNT1C/13NO. Wire 220-298 BLK connects to CNT1C/14NO. Wire 220-299 WHT connects to CB8/4.

NOTE 2

110VAC LUBE PUMP
Wire 110H-126 BLK connects from TB1/2B to OAK H11/OUT 2 COM.
Wire 110H-127 BLK connects to OAK H11/OUT 2.
Wire 110N-128 WHT connects to TB1/5B.
Wire GND-4 GRN connects to GND STRIP.

220VAC LUBE PUMP
220-226 BLK connects from CB8/2 to OAK H11/OUT 2 COM.
Wire 220-227 BLK connects to OAK H11/OUT 2.
Wire 220-228 WHT connects to CB8/4.
Wire GND-4 GRN connects to GND STRIP.

PART	(MFG PN:)	LOCATION
CB1	(NB1-D10-1P)	C3
CB2	(NB1-D6-1P)	D3
CB3,CB4,CB5	(NB1-D63-3P)	D3
CB6, CB8	(NB1-D10-2P)	D3
CB7	(NB1-D10-3P)	D3
CB9		E3
CNT1A-C	(PN:14374)	B2,B3
CNT2	(PN:14377)	B3
CONSOLE OPTIONS		A5-D6
DIOCAP3P 1-3	(PN:10967)	D4,E5
DISCONNECT	(OT100F3)	B1
DOOR FAN		H5
E-STOP CONNECTOR		B5
E-STOP SWITCH PENDANT		E6
E-STOP SWITCH CONSOLE		B6
FLOOD PUMP MOTOR		A2
GROUND LUG		B1
GROUND STRIP		B4
HIGH-LOW RANGE SWITCH		A2
INVERTER		A1
OPERATOR CONTROL PANEL		E6
LIMIT SWITCHES		A3,A4
LIMIT SWITCH OPTIONS		G6
LUBE PUMP		A3
MIST		A3
MPG CABLE		E6,F6
NOTE 1		A2
NOTE 2		A3
NOTE 3		B1-C1
NOTE 4		B1-C1
NUC	(PN:8520)	B6
OAK	(PN:13135)	F2,F3
OCR2	(LR2K0310)	B3
PC	(PN:11084)	B6-D6
PLCADD1616	(PN:11025)	H2,H3
PROBE CABLE	(PN:11211)	F6
PS1	(RQ-65D)	C4
PS2	(S-25-24)	C5
PS3	(RT-55B)	H1
PS4	(RD-65A)	H5
SERVO DRIVES		E4-H5
SPINDLE COOLING FAN		A2
SPINDLE MOTOR	(PN:4953)	A1
T1	(PN:4953)	C4
TB1		D1,D2
WORK LIGHT		A2
Z-AXIS BRAKE RELEASE		C5

OPTIONAL PLCADD1616

MEANWELL RT-50B
POWER SUPPLY PN:7820
PS3

SEE MANUAL FOR CONNECTION OF INPUTS & OUTPUT DEVICES

RELAY OUTPUT COMMONS SHOULD BE FUSED TO 5A MAX (NO) 3A MAX (NC)

PLCADD1616
REV 090306
PN:11025

OAK
LC4D
REV 150209
PN:13135

OAK POWER CABLE PN:13106

DB9 CABLE CONNECTOR MALE END

PIN 1 = N/C
PIN 2 = COM (BLK/RED)
PIN 3 = Z \ (BLK/GRN)
PIN 4 = A \ (BLK/WHT)
PIN 5 = B \ (BLK/BLU)
PIN 6 = Z (GRN)
PIN 7 = A (WHT)
PIN 8 = B (BLU)
PIN 9 = +5VDC (RED)

CABLE SIDE

OPERATOR CONTROL PANEL PN:11077

SUGGESTED WIRE CURRENT CAPACITY
STRANDED MTW OR EQUIVALENT

18 AWG - UP TO	6A
16 AWG - UP TO	8A
14 AWG - UP TO	15A
12 AWG - UP TO	20A
10 AWG - UP TO	30A
8 AWG - UP TO	40A
6 AWG - UP TO	60A

E-STOP CONNECTIONS ARE SHOWN IN RED
OPTIONAL CONNECTIONS ARE SHOWN IN BLUE
GROUND CONNECTIONS ARE SHOWN IN GREEN
110VAC CONNECTIONS ARE SHOWN IN VIOLET
3 PHASE CONNECTIONS ARE SHOWN IN ORANGE
24VAC CONNECTIONS ARE SHOWN IN BROWN

REV	DATE	DESCRIPTION	BY
1	8-5-2016	INITIAL RELEASE	SPM
2	8-10-2016	Corrected part numbers on drives and circuit breakers. Corrected labeling of contact points on CNT1A. Corrected wire connection point label for VM+ and VM- on drives.	CEM
3	8-16-2016	Corrected wire color on E-stop circuit.	CEM
4	9-08-2016	Corrected transformer primary connections.	CEM

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Title
Mill, 220VAC, OAK, ACDC 60 Drives, Generic Inverter (VFD), Optional PLCADD1616

Size	Number	Rev
D		4
Date	160805	Drawn by SPM
Filename	S14775.DWG	Sheet 1 of 1