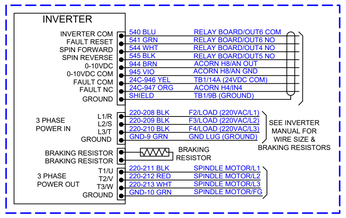
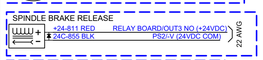
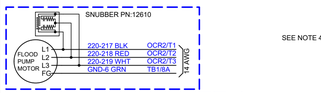


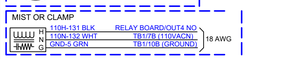


NOTE 1

110VAC SPINDLE COOLING FAN
110H-122 BLK connects from CNT1/L1 to TB1/3A.
Wire 110H-123 BLK connects to CNT1/T1.
Wire 110N-124 WHT connects to TB1/7A.
Wires are 18 AWG

220VAC SPINDLE COOLING FAN
220-297 BLK connects from F3/LOAD to CNT1/L1. Wire 220-298 BLK connects to CNT1/T1. Wire 220-299 WHT connects to F4/LOAD.
Wires are 14 AWG





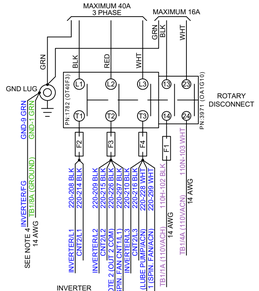
NOTE 2

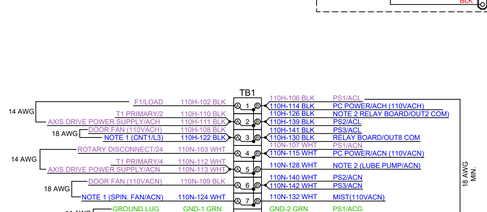
110VAC LUBE PUMP
Wire 110H-126 BLK connects from TB1/2B to RELAY BOARD/OUT2 COM.
Wire 110H-127 BLK connects to RELAY BOARD/OUT2 NO.
Wire 110N-128 WHT connects to TB1/5B.
Wire GND-4 GRN connects to TB1/9B.
Wires are 18 AWG

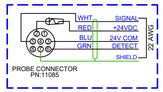
220VAC LUBE PUMP
220-226 BLK connects from F3/LOAD to RELAY BOARD/OUT2 COM
Wire 220-227 BLK connects to RELAY BOARD/OUT2 NO.
Wire 220-228 WHT connects to F4/LOAD.
Wire GND-4 GRN connects to TB1/9B.
Wires are 14 AWG

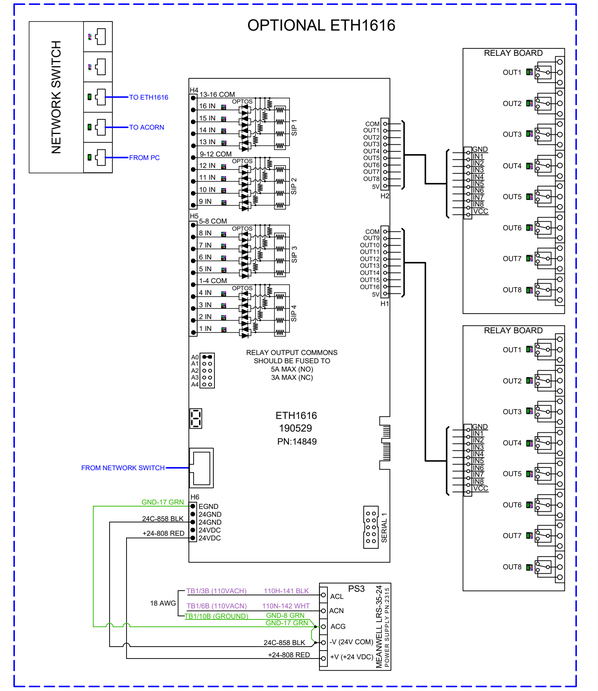
NOTE 4

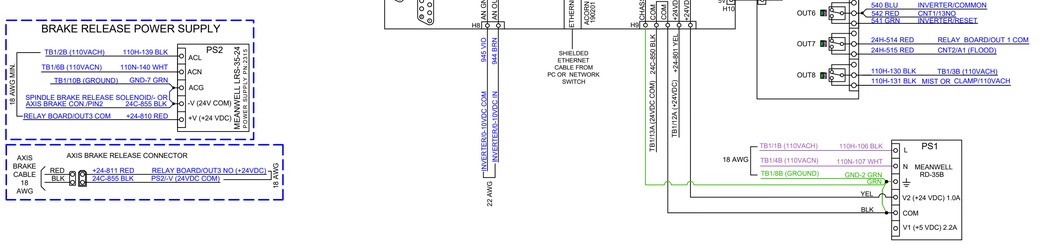
WIRES AND CIRCUIT BREAKERS MUST BE RATED FOR THE CURRENT RATING OF THE DEVICES USED. REFER TO OWNERS MANUAL FOR SPECIFIED WIRE GAUGE AND CURRENT CAPACITY.

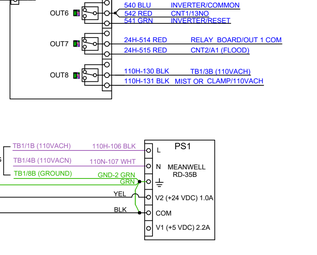


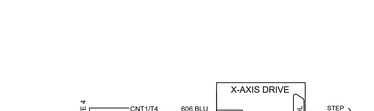


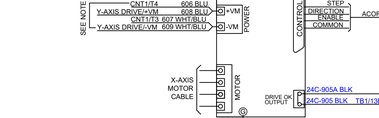


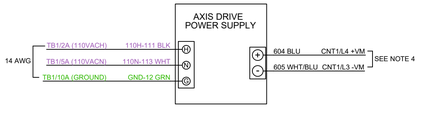


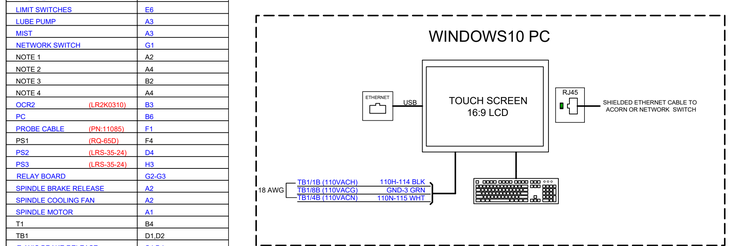


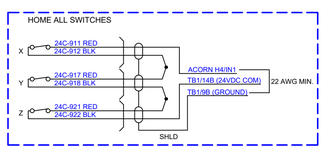


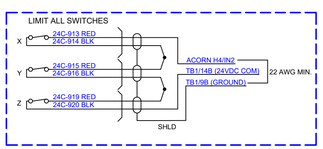












IF USING CIRCUIT BREAKERS INSTEAD OF FUSES, SEPARATE DEVICE SUPPLY CIRCUITS AND USE D CURVE CIRCUIT BREAKERS. WE RECOMMEND THE FOLLOWING BREAKERS.

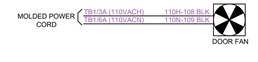
AMPERAGE	POLES	PART NUMBER (EATON)
5	1	FAZ-D5-1-NA-SP
15	1	FAZ-D15/1-NA-SP
2	2	FAZ-D2-2-NA
6	2	FAZ-D6-2-NA
10	2	FAZ-D10-2-NA
16	2	FAZ-D16-2-NA
30	2	FAZ-D30-2-NA
16	3	FAZ-D16-3-NA
32	3	FAZ-D30-3-NA
63	3	FAZ-D63-3-NA

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

NOTE FUSE RATING DEPENDS ON SPINDLE HP

FUSE	RATING	LOCATION	CIRCUIT
F1	15ATD	B1	INCOMING SINGLE PHASE
F2	NOTE	B1	INCOMING 3 PHASE
F3	NOTE	B1	INCOMING 3 PHASE
F4	NOTE	B1	INCOMING 3 PHASE
F5	5ATD	D3	24VAC



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	11-07-2019	INITIAL RELEASE	CEM
2	04-07-2020	WIRE LABEL AND INDEX CORRECTIONS	CEM

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Title: Mill, 220/110VAC, ACORN, Generic Drives, Inverter (VFD)

Size D | Number | Rev 3
Date: 191107 | Drawn by CEM
Filename: S15010.DWG | Sheet 1 of 1

PART	(MFG PN:)	LOCATION
ACORN	(PN:14445)	D3-F3
AXIS DRIVES		D4-G5
CNT1	(PN:14374)	B3
CNT2	(PN:14377)	B3
DISCONNECT	(OT40F3)	B1
DISCONNECT, AUX	(OA1G10)	B1
DOOR FAN		H4
E-STOP CONNECTOR		E1
E-STOP SWITCH		D1
ETH1616		G1-H3
F1,F2,F3,F4		B1
F5		D2
FLOOD PUMP MOTOR		A3
FUSE TABLE		F6
GROUND LUG		B1
HOME SWITCHES		C6
HIGH-LOW RANGE SWITCH		A2
INVERTER		A1
LIMIT SWITCHES		E6
LUBE PUMP		A3
MIST		A3
NETWORK SWITCH		G1
NOTE 1		A2
NOTE 2		A4
NOTE 3		B2
NOTE 4		A4
OCR2	(LR2K0310)	B3
PC		B6
PROBE CABLE	(PN:11085)	F1
PS1	(RO-65D)	F4
PS2	(LRS-35-24)	D4
PS3	(LRS-35-24)	H3
RELAY BOARD		G2-G3
SPINDLE BRAKE RELEASE		A2
SPINDLE COOLING FAN		A2
SPINDLE MOTOR		A1
T1		B4
TB1		D1,D2
Z-AXIS BRAKE RELEASE		C4,D4

NOTE 3

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