POWER & CONTROL WIRING COLORS

(BLK) BLACK WIRE	AC – POWER
(BLU) BLUE WIRE	DC (+/–)
(GRN) GREEN WIRE	GROUND
(RED) RED WIRE	CONTROL 120VAC & UP
(WHT) WHITE WIRE	AC – NEUTRAL
(YEL) YELLOW WIRE	CONTROL WIRING

METHODS

NOT CONNECTED

CONNECTED

TERMINAL BLOCK

THE RECOMMENDED DRAWING CONVENTION FOR CONSISTANT LINE SPACING IS TO USE A SNAP SETTING OF .1000

TERMINAL BLOCKS

PRIMARY PANEL

AUXILIARY PANEL

AUXILIARY PANEL

AUXILIARY PANEL

AUXILIARY PANEL

FUSED TERMINAL BLOCKS

PRIMARY PANEL

AUXILIARY PANEL

AUXILIARY PANEL

AUXILIARY PANEL

AUXILIARY PANEL

JUNCTIONS & TERMINATIONS

PILOT LIGHT

A AMBER

B BLUE

G GREEN

R RED

W WHITE

Y YELLOW

INPUT / OUTPUT

QUANTUM PANEL

PLC PANEL

F * IN MOD **

F * OUT MOD **

*	TERMINAL NUMBER
**	MODULE NUMBER OR BOARD POSITION
MOD	MODULE
F*	FUSE NUMBER
*FU	FUSE NUMBER

SYMBOLS

COILS AND ACCESSORIES

DIODE

RESISTOR

SUPPRESSOR

MOV

COIL

TIMER COIL ON DELAY

TIMER COIL OFF DELAY

** COIL TAG ABRV.
*** COIL NUMBER

METERS

RUN TIME METER

HOURMETER

HOURMETER HM1

MISC. SYMBOLS

GROUND

SOLENOID

HORN

HEATER XXX WATTS

PANEL HEATER

RECEPTACLE

PILOT LIGHT

PANEL FAN

POWER SUPPLY

GFCI RECEPTACLE

EMI FILTER

DISCONNECTS & TRANSFORMERS

DISCONNECT

FUSE DISCONNECT

POWER TRANSFORMER

CIRCUIT BREAKER

FUSED CIRCUIT BREAKER

CIRCUIT BREAKER DISCONNECT

FUSE

TRANSMITTERS & TRANSDUCERS

THERMISTOR

ICTD

T/C

CURRENT TRANSFORMER

POTENTIOMETER

PRESSURE TRANSDUCER

3 WIRE RTD

LINEAR POTENTIOMETER

LINEAR TRANSMITTER

4–20MA DEVICE

RTD TE–100 OHMS

CURRENT TRANSFORMER

4–20mA OUTPUT DEVICE

SWITCHES

NORMALLY OPEN | NORMALLY CLOSED | HELD OPEN | HELD CLOSED

GENERAL

LIMIT

PUSH BUTTON

MUSHROOM HEAD

2 POSITION SELECTOR

3 POSITION SELECTOR

TEMPERATURE

PRESSURE

FLOW

LIQUID LEVEL

VIBRATION

DIFFERENTIAL PRESSURE

SHOW THIRD TERMINAL WHEN APPLICABLE (TYP)

SHOW MECHANICAL LINKAGE WHEN APPLICABLE (TYP)

CONTACTS

NORMALLY OPEN | NORMALLY CLOSED | HELD OPEN | HELD CLOSED

INTERVAL

ON DELAY

OFF DELAY

RELAY

FORM C

ABBREVIATIONS

ABE	ALARM / BELL
ABU	ALARM / BUZZER
AH	ALARM / HORN
AM	AMMETER
BAT	BATTERY
CB	CIRCUIT BREAKER
CON	CONTACTOR
CR	CONTACT RELAY
CRE	CONTACT RELAY, ELECTRONIC
CRH	CONTACT RELAY, MANUAL
CRL	CONTACT RELAY, LATCH
CRM	CONTACT RELAY, MASTER
CRU	CONTACT RELAY, UNLATCH
CS	CAM SWITCH
CT	CURRENT TRANSFORMER
D	DIODE
DISC	DISCONNECT SWITCH
FB	FUSE BLOCK
FLS	FLOAT SWITCH
FS	FLOW SWITCH
FU	FUSE
GRD	GROUND
HC	HEATING CONTACTOR
HTR	HEATER
ICTD	INTEGRATED CIRCUIT TEMP DEVICE
IOL	INSTANTANEOUS OVERLOAD
LC	LIGHTING CONTACTOR
LS	LIQUID LEVEL SWITCH
LT	PILOT LIGHT
MPB	MUSHROOM PUSH BUTTON SWITCH
MS	MOTOR STARTER
M	MOTOR
NEU	NEUTRAL
OL	OVERLOAD RELAY
PB	PUSH BUTTON
PDS	PRESSURE DIFFERENTIAL SWITCH
PE	PRESSURE ELEMENT
POT	POTENTIOMETER
PS	PRESSURE SWITCH
QTM	THERMISTOR
QVR	VARISTOR
RES	RESISTOR
RTD	RESISTANCE TEMPERATURE DETECTOR
S	SWITCH
SBC	SINGLE BOARD CONTROLLER (MICRO)
SS	SELECTOR SWITCH
T	TRANSFORMER
TB	TERMINAL BLOCK
TE	TEMPERATURE ELEMENT
T/C	THERMOCOUPLE
TGS	TOGGLE SWITCH
TR	TIMER RELAY
TS	TEMPERATURE SWITCH
VM	VOLTMETER
XS	VIBRATION SWITCH
ZS	LIMIT / PROXIMITY SWITCH

BARRIERS

SINGLE

DUAL

ISOLATED TERM

INTRINSIC BARRIER

SINGLE

GND TERM

GROUNDED INTRINSIC BARRIER

DUAL

GND TERM

ALL SHEETS ARE THE SAME REVISION STATUS

ELECTRICAL WIRING

PANEL WIRING

FACTORY PACKAGE WIRING

WIRED BY OTHERS

OPTIONAL WIRING

COMMUNICATION/ SOFTWARE CONNECTION

NOTES:

1. SYMBOL SIZES SHOULD BE AS SHOWN ON A "FULL" SIZE COPY OF THIS DRAWING.
2. FOR ANSI/ISA TAG DEFINITIONS REFERENCE THE P & I DIAGRAM LEGEND DRAWING 650D0020.

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YORK Process Systems
100 CV WE
P.O. BOX 1592
Waynesboro, PA 17268

Johnson Controls

REVISIONS

REV	ECN	DESCRIPTION	DATE	DR	APP
A	7777	UPDATED TO NEW DWG. FORMAT AND STANDARDS	6/28/99	MAR	HMK
B	8064	UPDATED TO NEW DWG. FORMAT	2/21/00	DET	HMK
C	8714	UPDATED SYMBOLS AND ADDED POWER TO THE PHASE TRANSFORMER	4/15/02	WRS	DAK
D	9708	REVISED SYMBOLS TO REFLECT THE AUTOCAD ELECTRICAL	9/12/08	SJC	DAK

PURCHASER

NOTICE TO PURCHASER
REFER TO CONTRACT FOR MATERIAL SUPPLIED BY OTHERS. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.

YORK ORD NO

PURCH ORD NO

TITLE: ELECTRICAL WIRING DIAGRAM LEGEND

SHEET DETAIL

SIZE	CAGE CODE	DWG NO	REV
D	23587	640D0088	D

SCALE 1:1 SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED TOLERANCES PER: DAP 18

DEC. 3PL ± 0.001 DEC. 2PL ± 0.005 FRACT ± 1/64 ANGLE ± 1/2

DR	TODD YODER	11/18/97
CHK	D.KAPER	2/2/98
APPD	H.WAITZ	2/2/98

CODE