ELKHART BRASS

Fire Fighting Equipment

Industrial Systems

Legacy Interconnect Drawings

98629000 REV. REL

1302 West Beardsley Avenue • P.O. Box 1127 • Elkhart IN 46515 • (574) 295-8330 • Fax (574) 293-9914

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*For the most up-to-date documentation and specifications, please visit our website at www.elkhartbrass.com

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
D	ADDED CHART NUMBERS/NOTES	MSF	

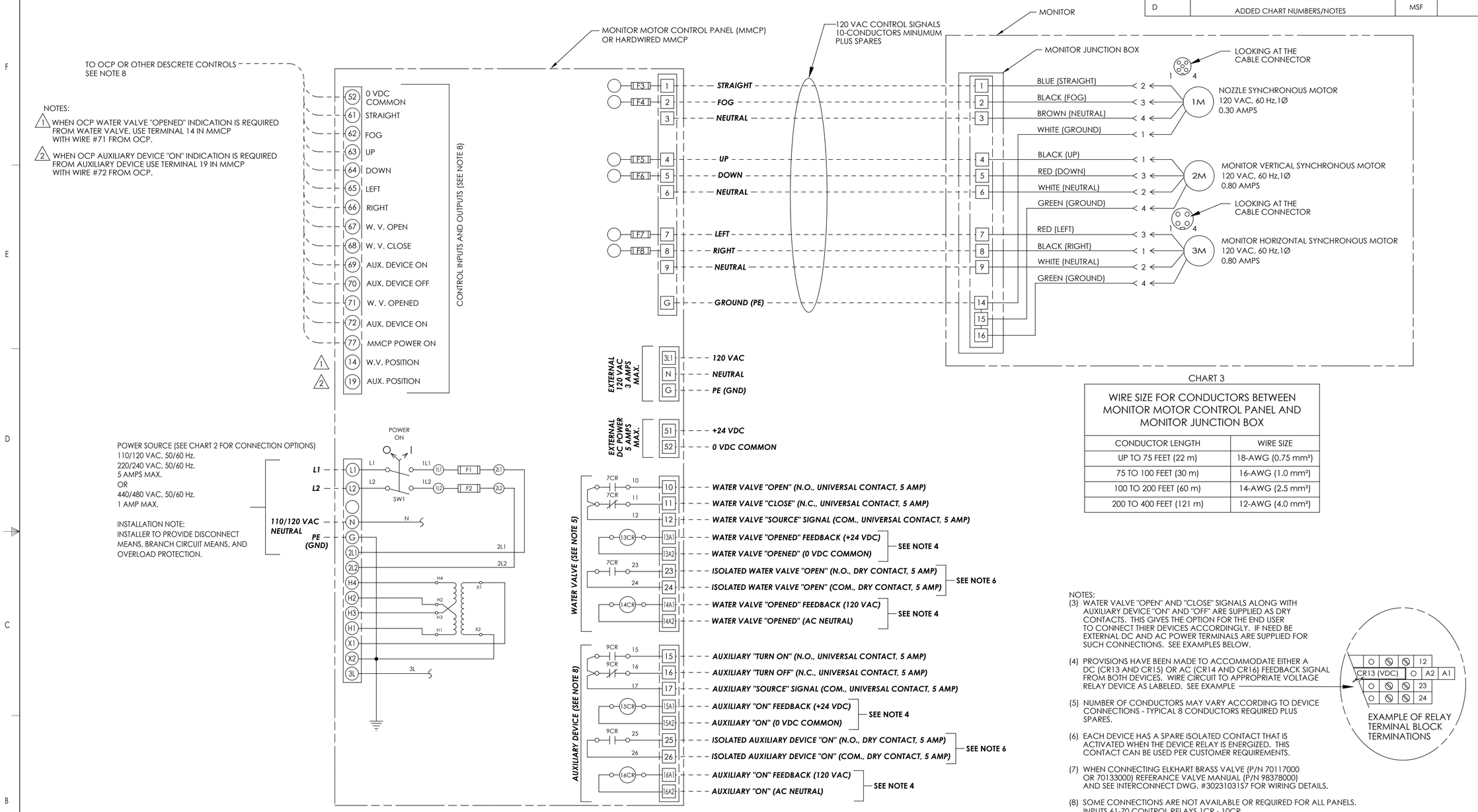


CHART 3

WIRE SIZE FOR CONDUCTORS BETWEEN MONITOR MOTOR CONTROL PANEL AND MONITOR JUNCTION BOX

CONDUCTOR LENGTH	WIRE SIZE
UP TO 75 FEET (22 m)	18-AWG (0.75 mm²)
75 TO 100 FEET (30 m)	16-AWG (1.0 mm²)
100 TO 200 FEET (60 m)	14-AWG (2.5 mm²)
200 TO 400 FEET (121 m)	12-AWG (4.0 mm²)

NOTES:

(3) WATER VALVE "OPEN" AND "CLOSE" SIGNALS ALONG WITH AUXILIARY DEVICE "ON" AND "OFF" ARE SUPPLIED AS DRY CONTACTS. THIS GIVES THE OPTION FOR THE END USER TO CONNECT THIER DEVICES ACCORDINGLY. IF NEED BE EXTERNAL DC AND AC POWER TERMINALS ARE SUPPLIED FOR SUCH CONNECTIONS. SEE EXAMPLES BELOW.

(4) PROVISIONS HAVE BEEN MADE TO ACCOMMODATE EITHER A DC (CR13 AND CR15) OR AC (CR14 AND CR16) FEEDBACK SIGNAL FROM BOTH DEVICES. WIRE CIRCUIT TO APPROPRIATE VOLTAGE RELAY DEVICE AS LABELED. SEE EXAMPLE

EXAMPLE OF RELAY TERMINAL BLOCK TERMINATIONS

(5) NUMBER OF CONDUCTORS MAY VARY ACCORDING TO DEVICE CONNECTIONS - TYPICAL 8 CONDUCTORS REQUIRED PLUS SPARES.

(6) EACH DEVICE HAS A SPARE ISOLATED CONTACT THAT IS ACTIVATED WHEN THE DEVICE RELAY IS ENERGIZED. THIS CONTACT CAN BE USED PER CUSTOMER REQUIREMENTS.

(7) WHEN CONNECTING ELKHART BRASS VALVE (P/N 70117000 OR 70133000) REFERANCE VALVE MANUAL (P/N 98378000) AND SEE INTERCONNECT DWG. #30231031S7 FOR WIRING DETAILS.

(8) SOME CONNECTIONS ARE NOT AVAILABLE OR REQUIRED FOR ALL PANELS. INPUTS 61-70 CONTROL RELAYS 1CR - 10CR.

CHART 1

WIRE SIZE FOR CONDUCTORS BETWEEN MONITOR MOTOR CONTROL PANEL AND OPERATOR CONTROL PANEL

CONDUCTOR LENGTH	WIRE SIZE
UP TO 750 FEET (228 m)	18-AWG (0.75 mm²)
750 TO 1500 FEET (457 m)	16-AWG (1.0 mm²)
1550 TO 2500 FEET (762 m)	14-AWG (2.5 mm²)
2500 TO 3500 FEET (1066 m)	12-AWG (4.0 mm²)

TOTAL WIRE RUN FROM FURTHEST HARDWIRED CONTROL TO MMCP

CHART 2

MMCP MAIN POWER PANEL, FUSE, & JUMPER CONNECTION OPTIONS
SEE DWG. #30231031S9 (OR CUSTOM CONNECTION DRAWING) FOR MAIN POWER TERMINATIONS

	MAIN POWER	PANEL CONNECTIONS	JUMPER CONNECTIONS		FUSE	DESCRIPTION	PT. NO.
	110/120 VAC 50/60 Hz.	L1, N, AND G	2L1 to 3L		F1	CLASS CC,TIME DELAY 600-VAC, 5-AMP	FNQ-R-5
					F2	CLASS CC,TIME DELAY 600-VAC, 5-AMP	FNQ-R-5
*	220/240 VAC 50/60 Hz.	L1, L2, AND G	2L1 to H4 H4 to H2 2L2 to H1	H3 to H1 X1 to 3L X2 to N	F1	CLASS CC,TIME DELAY 600-VAC, 5-AMP	FNQ-R-5
					F2	CLASS CC,TIME DELAY 600-VAC, 5-AMP	FNQ-R-5
	440/480 VAC 50/60 Hz.	L1, L2, AND G	2L1 to H4 2L2 to H1 H2 to H3	X1 to 3L X2 to N	F1	CLASS CC,TIME DELAY 600-VAC, 1-AMP	FNQ-R-1
					F2	CLASS CC,TIME DELAY 600-VAC, 1-AMP	FNQ-R-1

* 220/240 VAC, 50/60 Hz., (FACTORY CONFIGURATION)

STANDARD DRAWING NOT FOR APPROVAL

REFERENCE DWG. #81504095 (MULTI-MONITOR SPITFIRE SYSTEM LAYOUT) OR CUSTOM SYSTEM LAYOUT.

DRAWN BY	BS	DATE	02/18/2015
CHECKED BY	BS	DATE	02/19/2015
MATERIAL	N/A	WEIGHT (LBS)	N/A
CAT. NO.	INDUSTRIAL SYSTEMS		

TOLERANCE UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ALL FILLETS AND ROUNDS R 0.06 DO NOT SCALE PRINT
2 PLACE DEC.	± .060"	
3 PLACE DEC.	± .030"	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
ANGLES	± 1°	CAD MODEL:

THIRD ANGLE PROJECTION

ELKHART BRASS
Fire Fighting Equipment

DESCRIPTION
MONITOR MOTOR CONTROL PANEL
ELECTRICAL INTERCONNECT DRAWING
AND HMMCP

SIZE	PART NUMBER	REV.
C	30231031S1	D

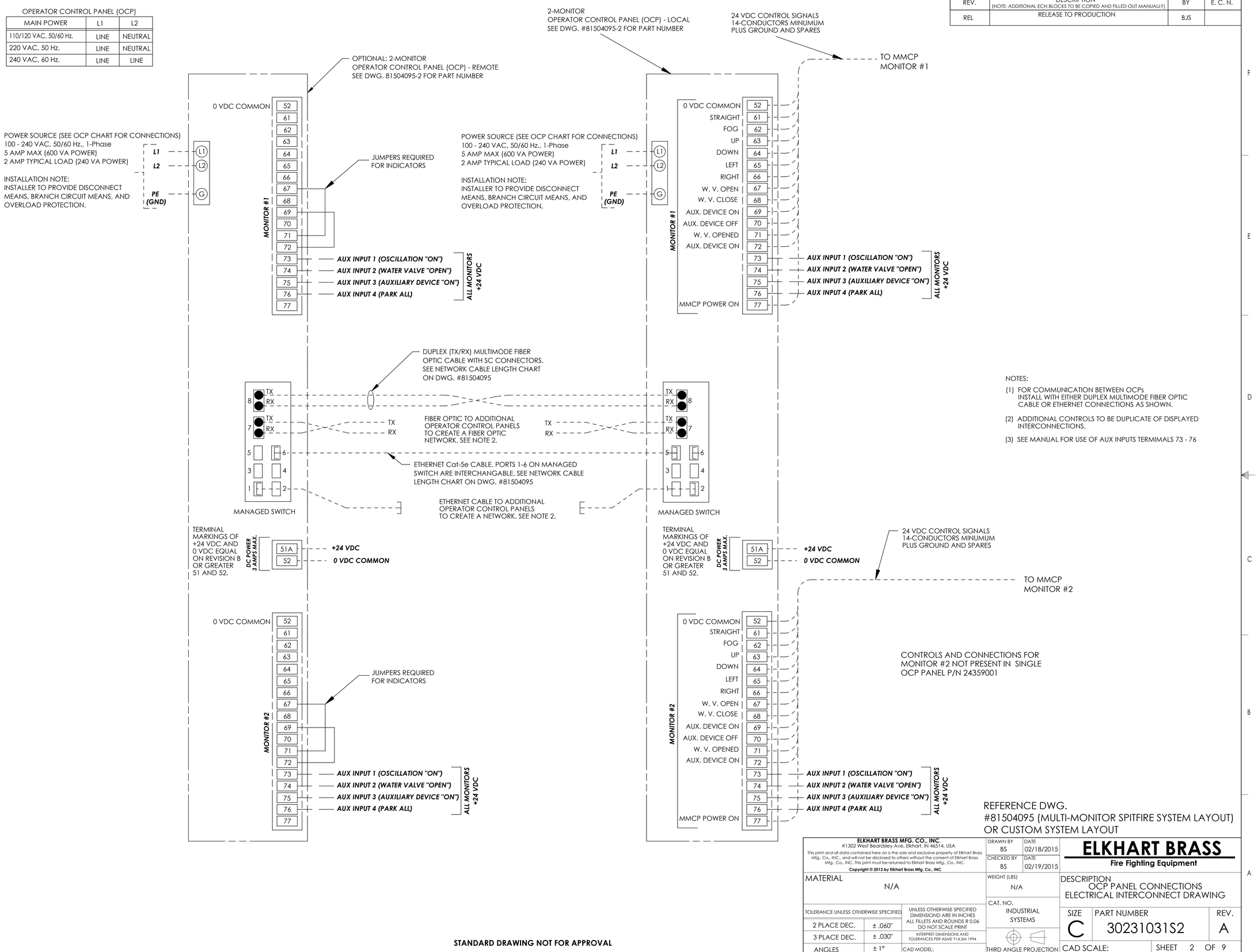
CAD SCALE: | SHEET 1 OF 9

Ver. 1.0

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
REL	RELEASE TO PRODUCTION	BJS	

OPERATOR CONTROL PANEL (OCP)

MAIN POWER	L1	L2
110/120 VAC, 50/60 Hz.	LINE	NEUTRAL
220 VAC, 50 Hz.	LINE	NEUTRAL
240 VAC, 60 Hz.	LINE	LINE



NOTES:

(1) FOR COMMUNICATION BETWEEN OCPs INSTALL WITH EITHER DUPLEX MULTIMODE FIBER OPTIC CABLE OR ETHERNET CONNECTIONS AS SHOWN.

(2) ADDITIONAL CONTROLS TO BE DUPLICATE OF DISPLAYED INTERCONNECTIONS.

(3) SEE MANUAL FOR USE OF AUX INPUTS TERMIMALS 73 - 76

REFERENCE DWG.
#81504095 (MULTI-MONITOR SPITFIRE SYSTEM LAYOUT)
OR CUSTOM SYSTEM LAYOUT

STANDARD DRAWING NOT FOR APPROVAL

DRAWN BY	BS	DATE	02/18/2015
CHECKED BY	BS	DATE	02/19/2015

ELKHART BRASS
Fire Fighting Equipment

MATERIAL: N/A
WEIGHT (LBS): N/A
CAT. NO.: INDUSTRIAL SYSTEMS

DESCRIPTION
OCP PANEL CONNECTIONS
ELECTRICAL INTERCONNECT DRAWING

TOLERANCE UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ALL FILLETS AND ROUNDS R 0.06 DO NOT SCALE PRINT
2 PLACE DEC.	± .060"	
3 PLACE DEC.	± .030"	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
ANGLES	± 1°	CAD MODEL:

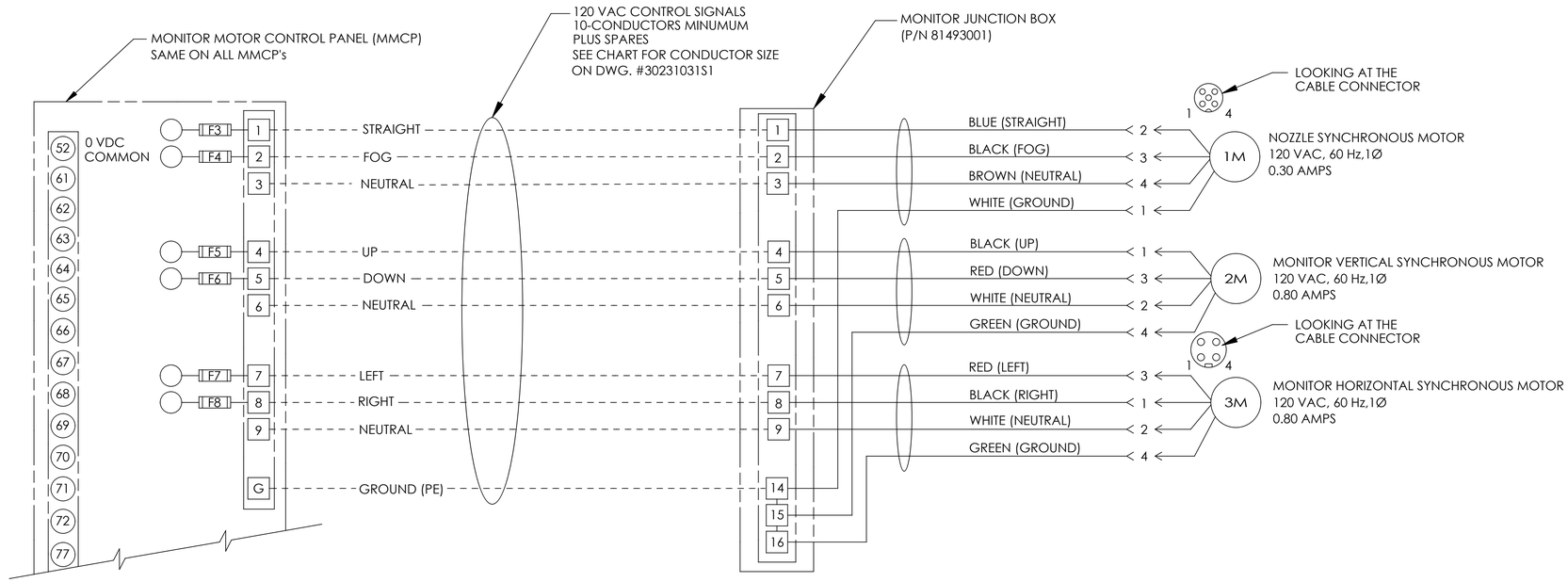
THIRD ANGLE PROJECTION

SIZE	PART NUMBER	REV.
C	30231031S2	A

CAD SCALE: | SHEET 2 OF 9

Ver. 1.0

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
REL	RELEASE TO PRODUCTION	BJS	



REFERENCE DWG. #81504095 (MULTI-MONITOR SPITFIRE SYSTEM LAYOUT)
OR CUSTOM SYSTEM LAYOUT.

STANDARD DRAWING NOT FOR APPROVAL

DRAWN BY	BS	DATE	02/18/2015
CHECKED BY	BS	DATE	02/18/2015

MATERIAL: N/A
WEIGHT (LBS): N/A
CAT. NO. INDUSTRIAL SYSTEM

TOLERANCE UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED DIMENSIONID ARE IN INCHES ALL FILLETS AND ROUNDS R 0.06 DO NOT SCALE PRINT
2 PLACE DEC.	± .060"	
3 PLACE DEC.	± .030"	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
ANGLES	± 1°	CAD MODEL:

THIRD ANGLE PROJECTION

ELKHART BRASS
Fire Fighting Equipment

DESCRIPTION
MONITOR & NOZZLE TO MMCP
ELECTRICAL INTERCONNECT DRAWING

SIZE	PART NUMBER	REV.
C	3023103IS3	A

CAD SCALE: NONE | SHEET 3 OF 9

Ver. 1.0

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
REL	RELEASE TO PRODUCTION	BJS	

FIGURE 1

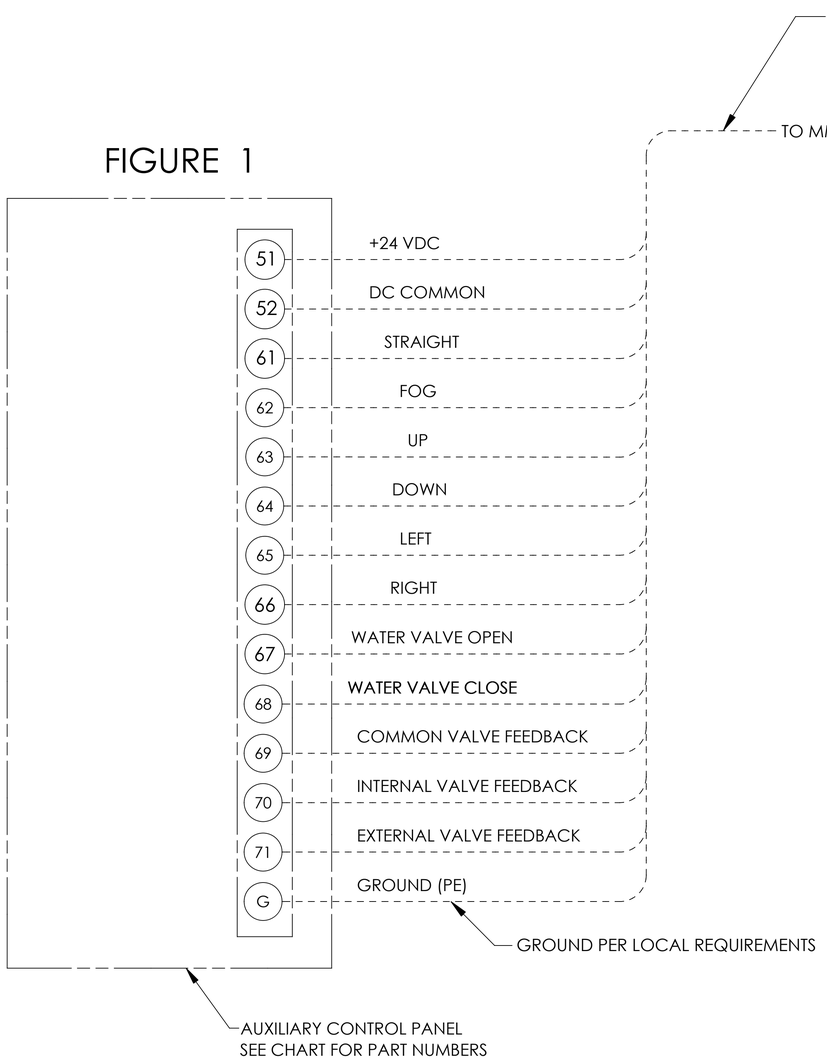
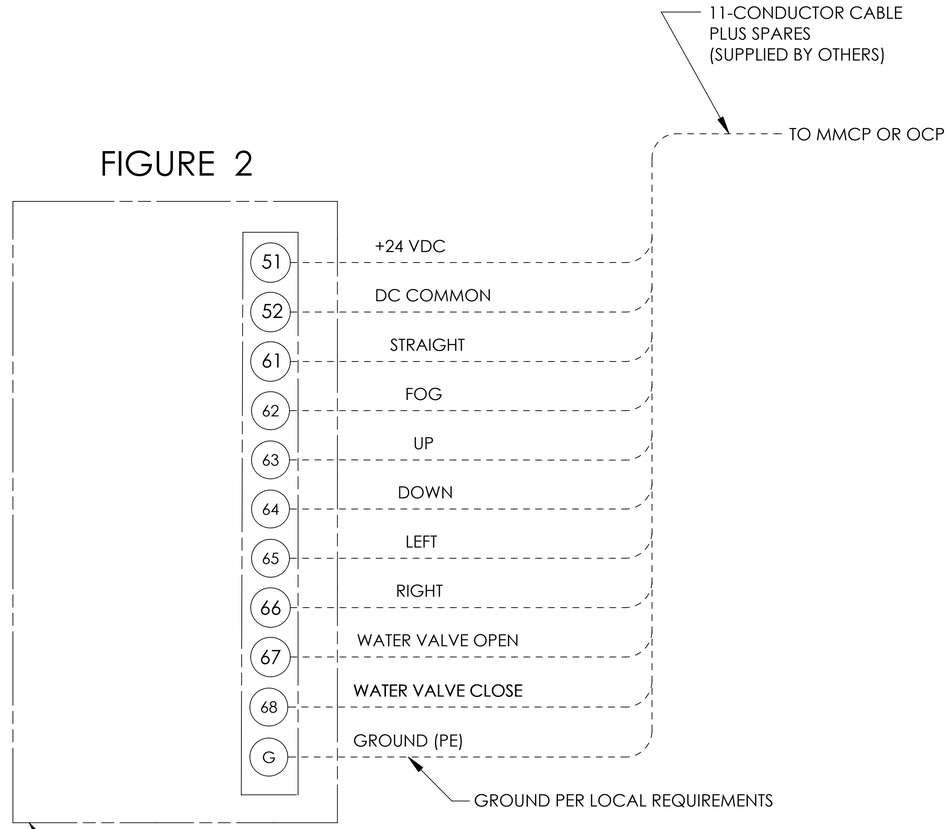


FIGURE 2



RF RECEIVER PANEL TERMINATIONS
MONITOR 1 = TERMINALS 161 - 168
MONITOR 2 = TERMINALS 261 - 268
MONITOR 3 = TERMINALS 361 - 368
MONITOR 4 = TERMINALS 461 - 468
MONITOR 5 = TERMINALS 561 - 568
MONITOR 6 = TERMINALS 661 - 668
TERMINALS 51, 52, & G ON ALL 6

NOTES:
1. AUX, CONTROL PANEL HAS MECHANICAL SWITCHES ONLY.
2. EITHER AUX. CONTROL OR RF RECEIVER CAN BE HARDWIRED TO MMCP OR OCP

REFERENCE DWG. #81504095 (MULTI-MONITOR SPITFIRE SYSTEM LAYOUT) OR CUSTOM SYSTEM LAYOUT

TO CALCULATE WIRE RUN DISTANCE:
(1) DOUBLE THE DISTANCE FROM AUXILIARY CONTROL OR RF RECEIVER TO OCP OR MMCP TERMINATION.
(2) IF AUXILIARY CONTROL OR RF RECEIVER IS TERMINATED AT OCP, ADD WIRE RUN TO MMCP FOR TOTAL DISTANCE.
(3) SEE CHART FOR CONDUCTOR SIZE BETWEEN MMCP AND OCP ON DWG. #30231031S1

STANDARD DRAWING NOT FOR APPROVAL

ELKHART BRASS MFG. CO., INC.
#1302 West Beardsley Ave, Elkhart, IN 46514, USA

DRAWN BY	BS	DATE	02/18/2015
CHECKED BY	BS	DATE	02/18/2015

ELKHART BRASS
Fire Fighting Equipment

MATERIAL: N/A
WEIGHT (LBS): N/A
CAT. NO.: INDUSTRIAL SYSTEMS

DESCRIPTION: AUXILIARY OCP & RF RECEIVER PANELS ELECTRICAL INTERCONNECT DRAWING

TOLERANCE UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED DIMENSIOND ARE IN INCHES ALL FILLETS AND ROUNDS R 0.06 DO NOT SCALE PRINT
2 PLACE DEC.	± .060"	
3 PLACE DEC.	± .030"	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
ANGLES	± 1°	CAD MODEL:

THIRD ANGLE PROJECTION

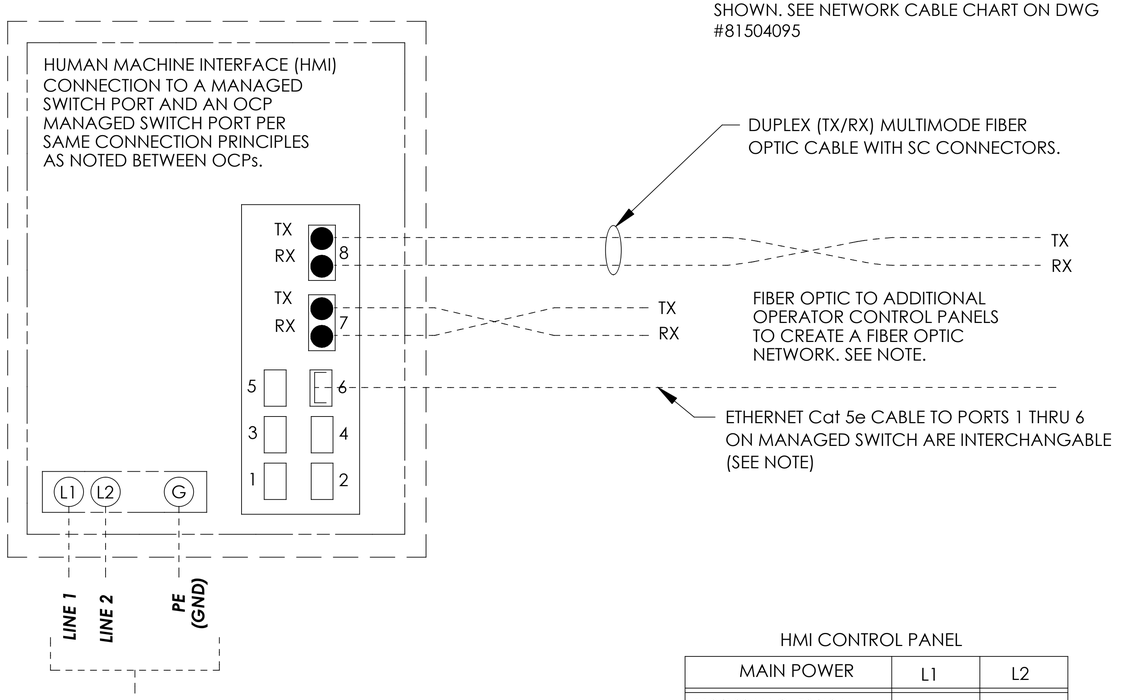
SIZE	PART NUMBER	REV.
C	30231031S4	A

CAD SCALE: | SHEET 4 OF 9

Ver. 1.0

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
REL	RELEASE TO PRODUCTION	BJS	

NOTE:
FOR COMUNICATION BETWEEN OCP's AND HMI , INSTALL WITH EITHER DUPLEX MULTIMODE FIBER OPTIC CABLE OR ETHERNET CONNECTIONS AS SHOWN. SEE NETWORK CABLE CHART ON DWG #81504095



HMI CONTROL PANEL

MAIN POWER	L1	L2
110/120 VAC, 50/60 Hz.	LINE	NEUTRAL
220 VAC, 50 Hz.	LINE	NEUTRAL
240 VAC, 60 Hz.	LINE	LINE

POWER SOURCE (SEE CHART FOR CONNECTIONS)
100 - 240 VAC 50/60 Hz., 1-Phase
4 AMPS MAX. (480 VA POWER)
1 AMP TYPICAL LOAD

INSTALLATION NOTE:
INSTALLER TO PROVIDE DISCONNECT MEANS, BRANCH CIRCUIT MEANS, AND OVERLOAD PROTECTION.

REFERENCE DWG. #81504095 (MULTI-MONITOR SPITFIRE SYSTEM LAYOUT) OR CUSTOM SYSTEM LAYOUT

STANDARD DRAWING NOT FOR APPROVAL

ELKHART BRASS MFG. CO., INC.
#1302 West Beardsley Ave, Elkhart, IN 46514, USA

DRAWN BY	BS
DATE	02/18/2015
CHECKED BY	BS
DATE	02/19/2015
MATERIAL	N/A
WEIGHT (LBS)	N/A
CAT. NO.	INDUSTRIAL SYSTEMS

TOLERANCE UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED DIMENSIOND ARE IN INCHES ALL FILLETS AND ROUNDS R 0.06 DO NOT SCALE PRINT
2 PLACE DEC.	± .060"	
3 PLACE DEC.	± .030"	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
ANGLES	± 1°	CAD MODEL:

THIRD ANGLE PROJECTION

ELKHART BRASS
Fire Fighting Equipment

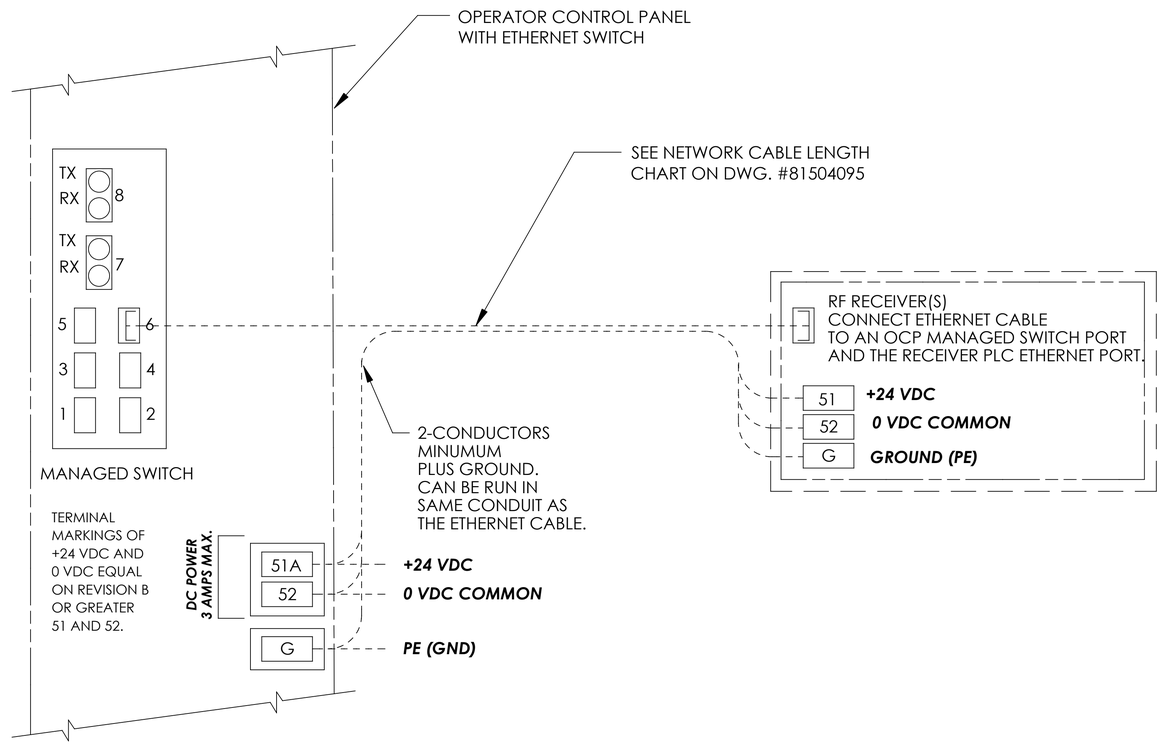
DESCRIPTION
HMI PANEL TO OCP
ELECTRICAL INTERCONNECT DRAWING

SIZE	PART NUMBER	REV.
C	30231031S5	A

CAD SCALE: | SHEET 5 OF 9

Ver. 1.0

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
REL	RELEASE TO PRODUCTION	BJS	



REFERENCE DWG. #81504095 (MULTI-MONITOR SPITFIRE SYSTEM LAYOUT)
OR CUSTOM SYSTEM LAYOUT

STANDARD DRAWING NOT FOR APPROVAL

DRAWN BY	BS	DATE	02/18/2015
CHECKED BY	BS	DATE	02/18/2015

ELKHART BRASS
Fire Fighting Equipment

MATERIAL: N/A
WEIGHT (LBS): N/A
CAT. NO. INDUSTRIAL SYSTEM

DESCRIPTION
RF RECEIVER TO OCP ETHERNET SWITCH
ELECTRICAL INTERCONNECT DRAWING

TOLERANCE UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED DIMENSIOND ARE IN INCHES ALL FILLETS AND ROUNDS R 0.06 DO NOT SCALE PRINT
2 PLACE DEC.	± .060"	
3 PLACE DEC.	± .030"	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
ANGLES	± 1°	CAD MODEL:

THIRD ANGLE PROJECTION

SIZE	PART NUMBER	REV.
C	3023103IS6	A

CAD SCALE: NONE | SHEET 6 OF 9

Ver. 1.0

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
REL	RELEASE TO PRODUCTION	BJS	

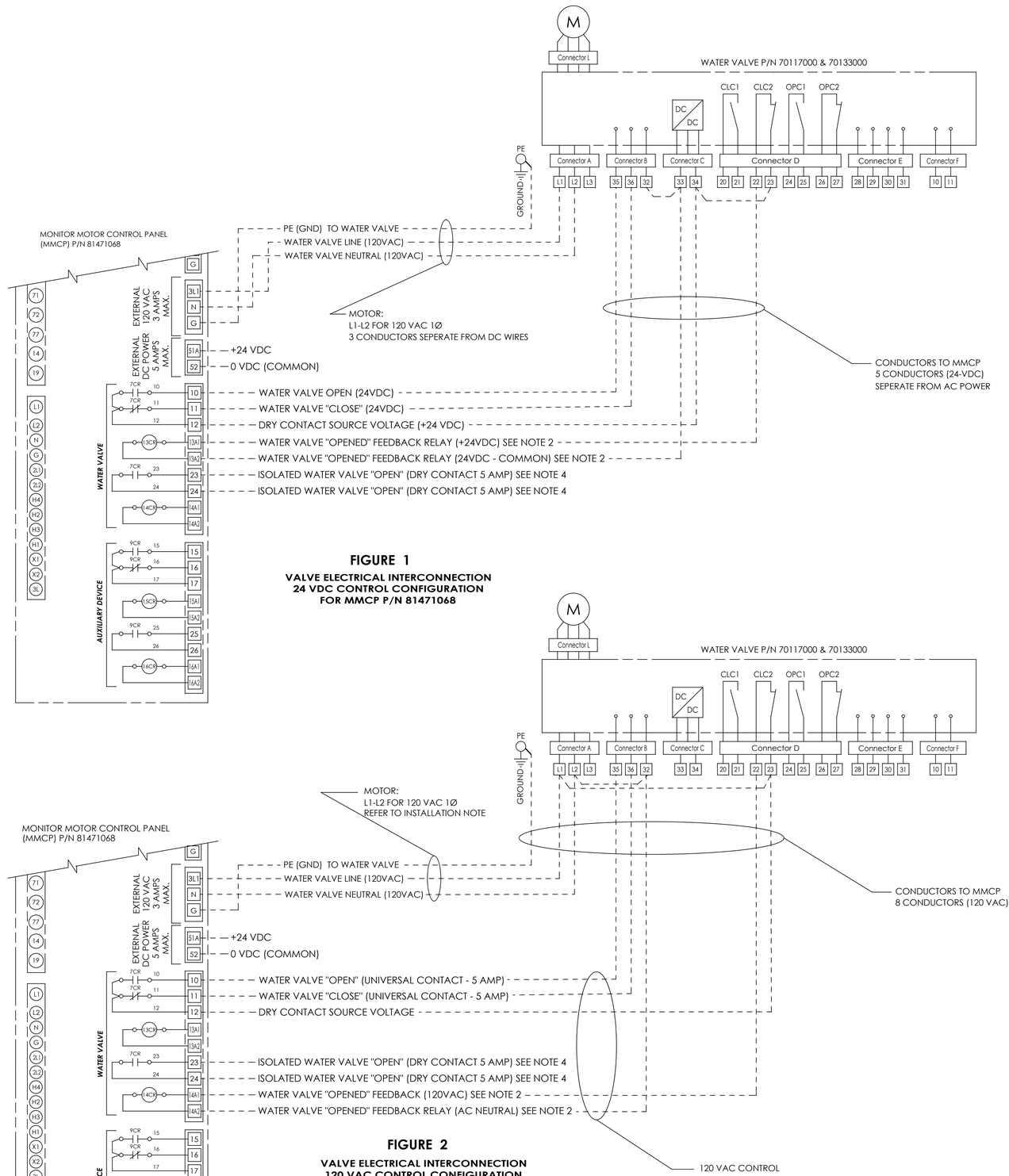


FIGURE 1

VALVE ELECTRICAL INTERCONNECTION
24 VDC CONTROL CONFIGURATION
FOR MMCP P/N 81471068

FIGURE 2

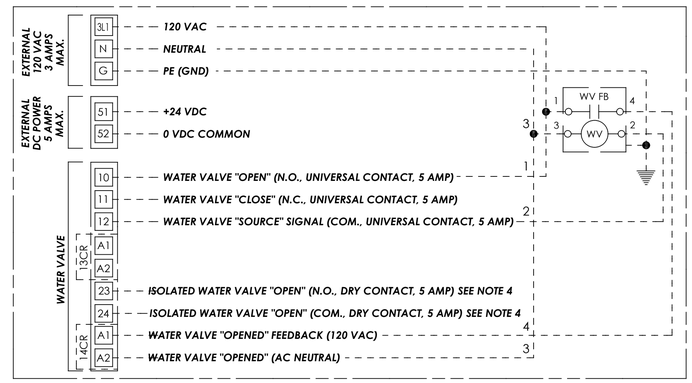
VALVE ELECTRICAL INTERCONNECTION
120 VAC CONTROL CONFIGURATION
FOR MMCP P/N 81471068

Output contact ratings:
5A @ up to 240 VAC
5A @ up to 30 VDC
0.5A @ 120VDC

Remote control signals:
-type: Push-to-Run
minum pulse duration:
≥300ms

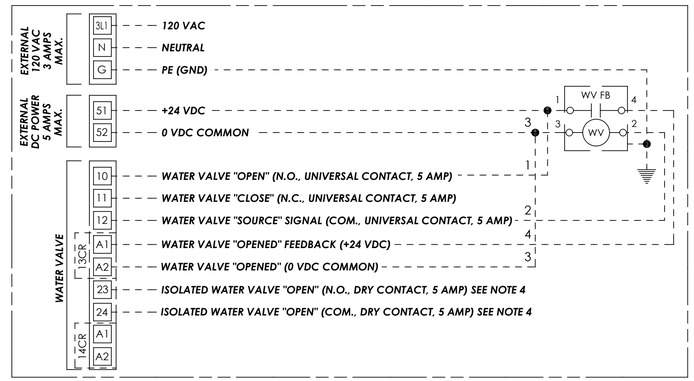
STANDARD DRAWING NOT FOR APPROVAL

FIGURE 3



EXAMPLE OF A 120 VAC WATER VALVE (WV) SOLENOID WITH 120 VAC FEEDBACK (WV FB) (SEE NOTE 1). THE OUTPUT COIL WILL REMAIN SEALED UNITL A REQUEST TO CLOSE THE VALVE OCCURS AT THE MMCP. THIS CONNECTION IS FOR A NON-ELKHART BRASS NORMALLY CLOSED VALVE.

FIGURE 4



EXAMPLE OF A 24 VDC WATER VALVE (WV) SOLENOID WITH 24 VDC FEEDBACK (WV FB) (SEE NOTE 1). THE OUTPUT COIL WILL REMAIN SEALED UNITL A REQUEST TO CLOSE THE VALVE OCCURS AT THE MMCP. THIS CONNECTION IS FOR A NON-ELKHART BRASS NORMALLY CLOSED VALVE.

(1) WATER VALVE "OPEN" AND "CLOSE" SIGNALS ALONG WITH AUXILIARY DEVICE "ON" AND "OFF" ARE SUPPLIED AS DRY CONTACTS. THIS GIVES THE OPTION FOR THE END USER TO CONNECT THIER DEVICES ACCORDINGLY. IF NEED BE EXTERNAL DC AND AC POWER TERMINALS ARE SUPPLIED FOR SUCH CONNECTIONS.

(2) PROVISIONS HAVE BEEN MADE TO ACCOMMODATE EITHER A 24 VDC OR 120 VAC FEEDBACK SIGNAL FROM BOTH DEVICES. WIRE CIRCUIT TO APPROPRIATE VOLTAGE RELAY DEVICE AS LABELED. SEE MMCP INTERCONNECT DWG. #3023103151

(3) NUMBER OF CONDUCTORS MAY VARY ACCORDING TO DEVICE CONNECTIONS - TYPICAL 8 CONDUCTORS REQUIRED PLUS SPARES.

(4) EACH DEVICE HAS A SPARE ISOLATED CONTACT THAT IS ACTIVATED WHEN THE DEVICE RELAY IS ENERGIZED. THIS CONTACT CAN BE USED PER CUSTOMER REQUIREMENTS.

(5) WHEN CONNECTING ELKHART BRASS VALVE (P/N 70117000 OR 7013300) REFRENCE VALVE MANUAL (P/N 98378000) FOR WIRING DETAILS.

(6) 51A AND 52 (24 VDC) SHOWN FOR USE BY USER IF REQUIRED.

(7) 3L1, N, & G (120 VAC) USED FOR WATER VALVE POWER.

REFERENCE DWG. #81504095 (MULTI-MONITOR SPITFIRE SYSTEM LAYOUT) OR CUSTOM SYSTEM LAYOUT

DRAWN BY	BS	DATE	02/18/2015
CHECKED BY	BS	DATE	02/19/2015
MATERIAL	N/A	WEIGHT (LBS)	N/A
CAT. NO.	INDUSTRIAL SYSTEMS		
TOLERANCE UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED DIMENSIOND ARE IN INCHES ALL FILLETS AND ROUNDS R 0.06 DO NOT SCALE PRINT	
2 PLACE DEC.	± .060"		
3 PLACE DEC.	± .030"	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994	
ANGLES	± 1°	CAD MODEL:	
THIRD ANGLE PROJECTION			

ELKHART BRASS
Fire Fighting Equipment

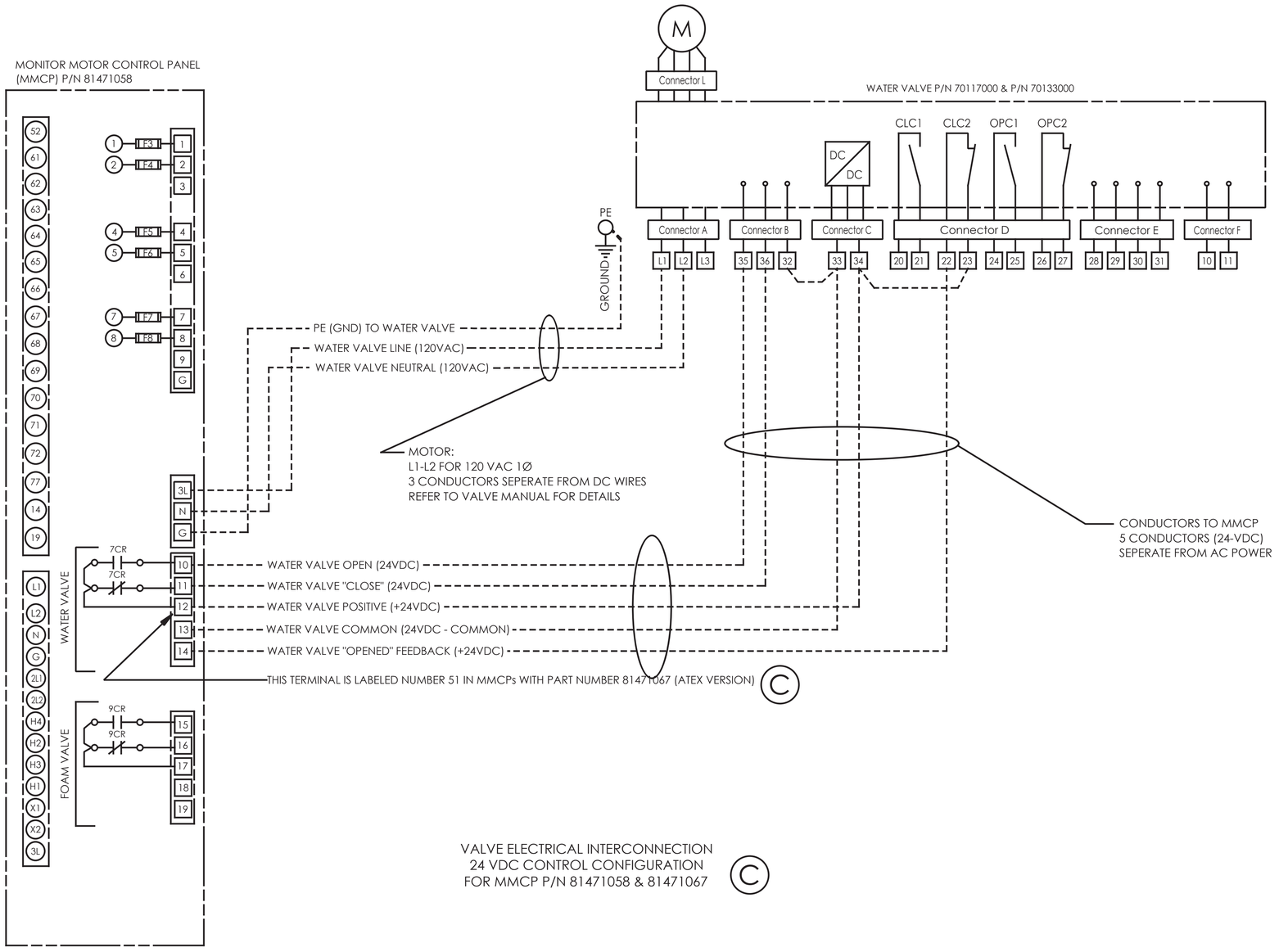
DESCRIPTION
WATER VALVE TO MMCP
ELECTRICAL INTERCONNECT DRAWING

SIZE	PART NUMBER	REV.
C	30231031S7	A

CAD SCALE: | SHEET 7 OF 9

Ver. 1.0

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
REL	RELEASE TO PRODUCTION	BJS	
C	ADDED NOTE FOR ATEX MMCP AND CHANGED TITLE TO INCLUDE ATEX MMCP	MJM	



VALVE ELECTRICAL INTERCONNECTION
24 VDC CONTROL CONFIGURATION
FOR MMCP P/N 81471058 & 81471067 ©

REFERENCE DWG. #81504095 (MULTI-MONITOR SPITFIRE SYSTEM LAYOUT)
OR CUSTOM SYSTEM LAYOUT

STANDARD DRAWING NOT FOR APPROVAL

DRAWN BY	BS	DATE	02/18/2015
CHECKED BY	BS	DATE	02/18/2015
MATERIAL	N/A	WEIGHT (LBS)	N/A
CAT. NO.	INDUSTRIAL SYSTEM		

TOLERANCE UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED DIMENSIOND ARE IN INCHES ALL FILLETS AND ROUNDS R 0.06 DO NOT SCALE PRINT
2 PLACE DEC.	± .060"	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
3 PLACE DEC.	± .030"	
ANGLES	± 1°	CAD MODEL:

THIRD ANGLE PROJECTION

ELKHART BRASS
Fire Fighting Equipment

DESCRIPTION
WATER VALVE TO 81471058 MMCP
OR 81471067 ATEX MMCP
ELECTRICAL INTERCONNECT DRAWING

SIZE	PART NUMBER	REV.
C	30231031S8	D

CAD SCALE: NONE | SHEET 8 OF 9

Ver. 1.01

REV.	DESCRIPTION (NOTE: ADDITIONAL ECN BLOCKS TO BE COPIED AND FILLED OUT MANUALLY)	BY	E. C. N.
C	CHANGED 440/480 NOTE	MSF	01FEB17

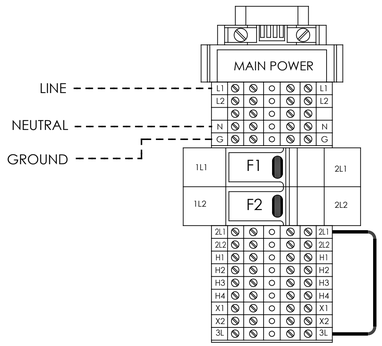


FIGURE 1
MMCP MAIN POWER
110 / 120 VAC, 50/60 Hz., SINGLE PHASE

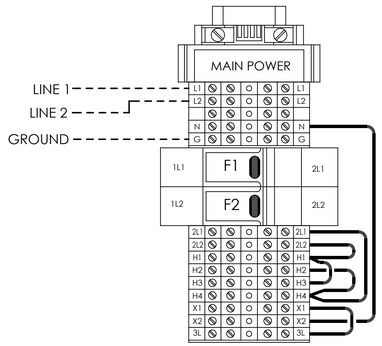


FIGURE 2
MMCP MAIN POWER
220 /240 VAC, 60 Hz., SINGLE PHASE

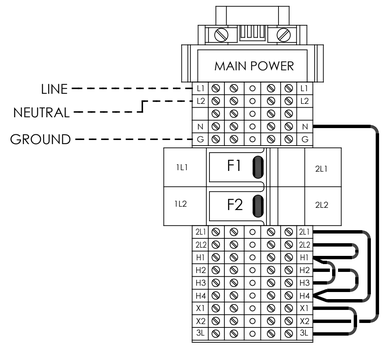


FIGURE 3
MMCP MAIN POWER
220 /240 VAC, 50 Hz., SINGLE PHASE

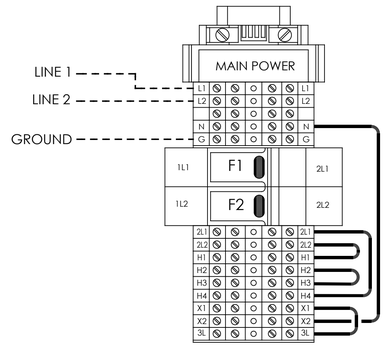


FIGURE 4
MMCP MAIN POWER
440 /480 VAC, 60 Hz., SINGLE PHASE

NOTE: FOR REFERENCE ONLY. NOT ALL CONFIGURATIONS WILL BE USED. SELECT APPROPRIATE CONFIGURATION FOR EACH APPLICATION.

PANEL JUMPERS

FIELD WIRING

STANDARD DRAWING NOT FOR APPROVAL

ELKHART BRASS MFG. CO., INC.
#1302 West Beardsley Ave, Elkhart, IN 46514, USA

DRAWN BY	MSF
DATE	02/18/2015
CHECKED BY	MSF
DATE	02/01/2017
MATERIAL	N/A
WEIGHT (LBS)	N/A
CAT. NO.	INDUSTRIAL SYSTEMS
THIRD ANGLE PROJECTION	

TOLERANCE UNLESS OTHERWISE SPECIFIED	
2 PLACE DEC.	± .060"
3 PLACE DEC.	± .030"
ANGLES	± 1°

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
ALL FILLETS AND ROUNDS R 0.06
DO NOT SCALE PRINT
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
CAD MODEL:

ELKHART BRASS
Fire Fighting Equipment

DESCRIPTION
MMCP POWER SOURCE CONNECTIONS
ELECTRICAL INTERCONNECT DRAWING

SIZE	PART NUMBER	REV.
C	3023103 1S9	C

CAD SCALE: NONE | SHEET 9 OF 9

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