

REV

A

ISSUED ENGINEERING DRAWING

REV

B

PAGE 6: WIRE 711E END TERMINAL WAS BLUE FEMALE SLIP SPADE. PAGE 7: WIRE 225C START CONNECTOR WAS HD10-9-96P; WIRE 226D START CONNECTOR WAS HD10-9-96P; WIRE 221 WAS RED, START CONNECTOR WAS HD10-9-96P, END TERMINAL WAS YELLOW FEMALE SLIP SPADE; DELETED WIRE 223; WIRE 773 END TERMINAL WAS 0460-215-16141; WIRES 242, 243, 244,246, 247, 248 END LOCATIONS CHANGED. PAGE 9: EDITED SPLICE #'S 20 AND #27.

ECN#

6042

DWN

MJD

APVD

MJD

DATE

16MAY22

6042

MJD

MJD

17AUG22

17

12

11

78

MODE SELECTOR
MANUAL RUN

WARNING

MODE SELECTOR
NOT IN
AUTOMATIC

CLARKE

FIRE PUMP ENGINE - MANUAL OPERATING INSTRUCTIONS

TO START ENGINE
1. Position MODE SELECTOR switch to MANUAL RUN.
2. Lift and hold MANUAL CRANK #1 until engine starts, or releases after 15 seconds. If switch fails to start, wait for 15 seconds, use MANUAL CRANK #2 and repeat step.
3. If COOLING WATER is not flowing or engine TEMPERATURE is too high open cooling system manual by-pass valve.

TO STOP ENGINE
1. Lift and hold MANUAL STOP until engine stops.
2. Return MODE SELECTOR switch to AUTOMATIC position.
3. Close cooling system manual by-pass valve, if opened.

IMPORTANT:
DO NOT leave the MODE SELECTOR switch in the MANUAL RUN position during AUTOMATIC operation.

EMERGENCY FAILED TO START INSTRUCTIONS

SELECT ALTERNATE ECM
If a failed to start condition has occurred, move the ECM selector switch to the ALTERNATE ECM position, then follow manual operating instructions above.

MANUAL STOP

MANUAL CRANK
#1

MANUAL CRANK
#2

DISPLAY
ON

USE ONLY IF
DISPLAY
IS OFF

WARNING
OPERATING ON
ALTERNATE ECM

ALTERNATE ECM
WARNING:
DO NOT SWITCH WHILE
THE ENGINE IS RUNNING

PRIMARY ECM
ECM
SELECTOR

31

25

3

16

34

17

24

45

49

PRIMARY ENGINE

ENGINE

22

54

ADD LABELS ABOVE CONNECTORS (5X)

ALTERNATE ENGINE

PRIMARY APPLICATION

ALTERNATE APPLICATION

28

46

ITEM	CLARKE P/N	QTY	DESCRIPTION
3	C071227	1	COVER, BOTTOM FACE
11	C072670	1	POWerview PV380
12	C072735	1	ASSM, FABRICATED INSTRUMENT PANEL BOX T3 PV380
15	HDP24-24-29PE	1	29 PIN CONNECTOR
16	C07589	4	ISOLATOR
17	C07945	2	LAMP, PILOT, 24V
20	C10438	1	BRACKET, HARNESS SUPPORT
22	C125810	10	RUBBER CUP WASHER
24	C126005	1	GASKET, DIAGNOSTIC CONNECTOR
25	C126007	1	GASKET, GLAND PLATE

ITEM	CLARKE P/N	QTY	DESCRIPTION
28	C126026	5	GASKET, 54 PIN CONNECTOR
31	C12881	9	BOOT, TOGGLE SWITCH
34	C12C209	1	OPERATING INSTRUCTION LABEL, TIER 3 INSTRUMENT PANEL - PV380
45	HD10-9-96P	1	9 PIN CONNECTOR
46	112263-90	1	NUT
48	112264	1	COILED LOCK WASHER
49	HDC16-9	1	DUST CAP, GRAY
54	---	10	BUTTON HEAD SCREW, #10-32 X 1"
78	C073068	1	HOLE PLUG

NOTES:

1) ALL WIRE TO BE GXL

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YES

NO

CONTROLLED DRAWING

MACHINE TOLERANCE

DECIMAL mm inch

X. ±1.5 ±0.06

X.X ±0.8 ±0.03

X.XX ±0.3 ±0.01

X.XXX ±0.025 ±0.001

X.XXXX ±0.001

ANGULAR: ±0.5°

FABRICATION TOLERANCE

DECIMAL mm inch

X. ±3 ±0.12

X.X ±1.5 ±0.06

X.XX ±0.6 ±0.02

ANGULAR: ±1.0°

DRWN

MJDEMBKOWSKI

DATE

3/1/2021

ENGR

MJDEMBKOWSKI

MATERIAL

AS NOTED

ASSEMBLY

SIMILAR TO

C072120-C072121

NAME

INSTRUMENT PANEL, 24V C32

PART NO.

C073148

SCALE

NTS

UNITS

MM [INCH]

PAGE

1

OF

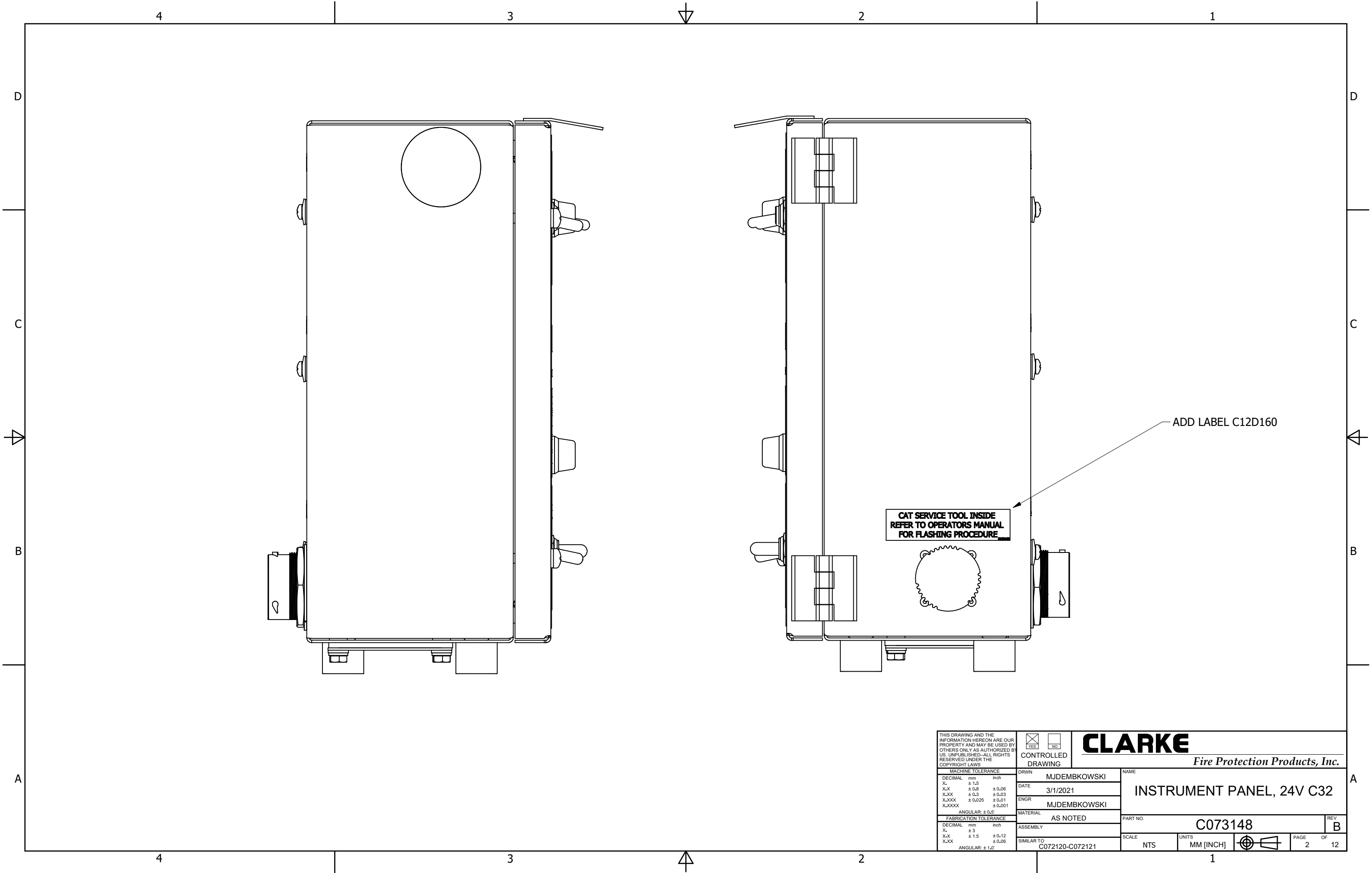
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REV

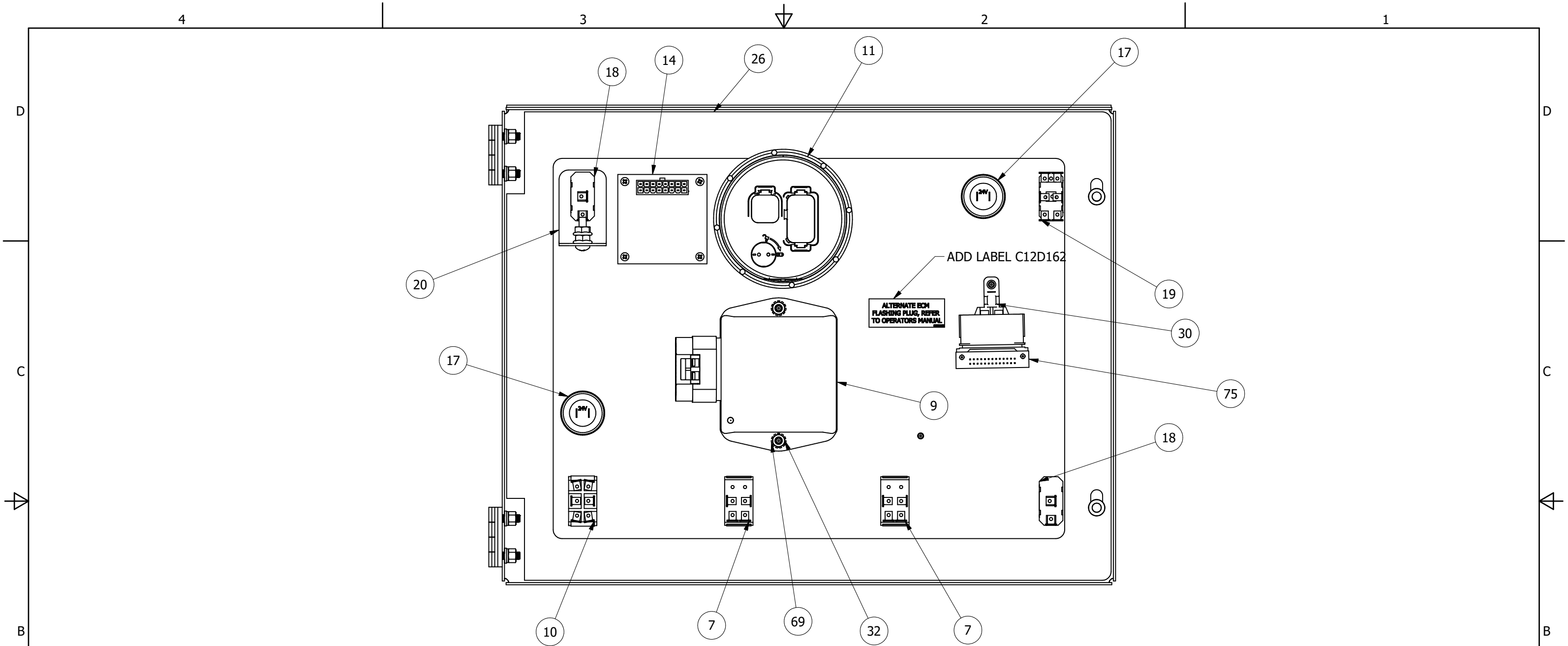
B

CLARKE

Fire Protection Products, Inc.



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MACHINE TOLERANCE			DRWN		NAME		INSTRUMENT PANEL, 24V C32	
DECIMAL mm inch			MJDEMBKOWSKI		DATE		3/1/2021	
X. ± 1.5 ± 0.06					ENGR		MJDEMBKOWSKI	
X.X ± 0.3 ± 0.03					MATERIAL		AS NOTED	
X.XX ± 0.025 ± 0.01					ASSEMBLY		C073148	
X.XXX ± 0.001 ± 0.001					SIMILAR TO		C072120-C072121	
ANGULAR: ± 0.5°					SCALE		NTS	
FABRICATION TOLERANCE					UNITS		MM [INCH]	
DECIMAL mm inch					PAGE		2 OF 12	
X. ± 3 ± 0.12					REV		B	
X.X ± 1.5 ± 0.06					REV		B	
X.XX ± 0.06 ± 0.001					REV		B	
ANGULAR: ± 1.0°					REV		B	



ITEM	CLARKE P/N	QTY	DESCRIPTION
7	C071479	2	TOGGLE SWITCH, DPST, OFF - MOM. ON
9	C072102	1	Control Module, BASE
10	C072129	3	TOGGLE SWITCH, DPDT, MOM. ON - MOM. ON
11	C072670	1	POWerview PV380
14	C072833	1	VOLTAGE DIVIDER
17	C07945	2	LAMP, PILOT, 24V
18	C07955	2	TOGGLE SWITCH, OFF-MOM. ON, SPST
19	C07956	1	TOGGLE SWITCH, ON-ON ,DPDT
20	C10438	1	BRACKET, HARNESS SUPPORT
26	C126012	1	GASKET, NEOPRENE, INSTRUMENT PANEL BOX TO COVER
30	C126034	3	CABLE TIE MOUNT, 4 WAY SCREW
32	C128895	2	NUT, STEEL, CLASS 8.8 ZINC PLATED HEX - M5 x 0.8
35	C12C974	4	MACHINE SCREW, #4-40 X 3/16", NYLON (McMaster 93135A271)
69	Washer GB/T 9407.28-1988 5	2	Serrated lock washer external teeth for assembly
75	C072893	1	CAT ALTERNATE ECU ADAPTER

15	H0P24-24-29PE	1	29 PIN CONNECTOR	3
78	C073068	1	HOLE PLUG	
79	C12D162	1	LABEL, SOFT START CONTROL	

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YES

NO

CONTROLLED DRAWING

MACHINE TOLERANCE

DECIMAL	mm	inch
X.	± 1.5	± 0.06
X.X	± 0.8	± 0.03
X.XX	± 0.3	± 0.01
X.XXX	± 0.025	± 0.001
X.XXXX	± 0.005	± 0.0001

FABRICATION TOLERANCE

DECIMAL	mm	inch
X.	± 3	± 0.12
X.X	± 1.5	± 0.06
X.XX	± 0.75	± 0.03

DRWN

MJDEMBKOWSKI

DATE

3/1/2021

ENGR

MJDEMBKOWSKI

MATERIAL

AS NOTED

ASSEMBLY

SIMILAR TO

C072120-C072121

NAME

INSTRUMENT PANEL, 24V C32

PART NO.

C073148

SCALE

NTS

UNITS

MM [INCH]

REV

B

PAGE

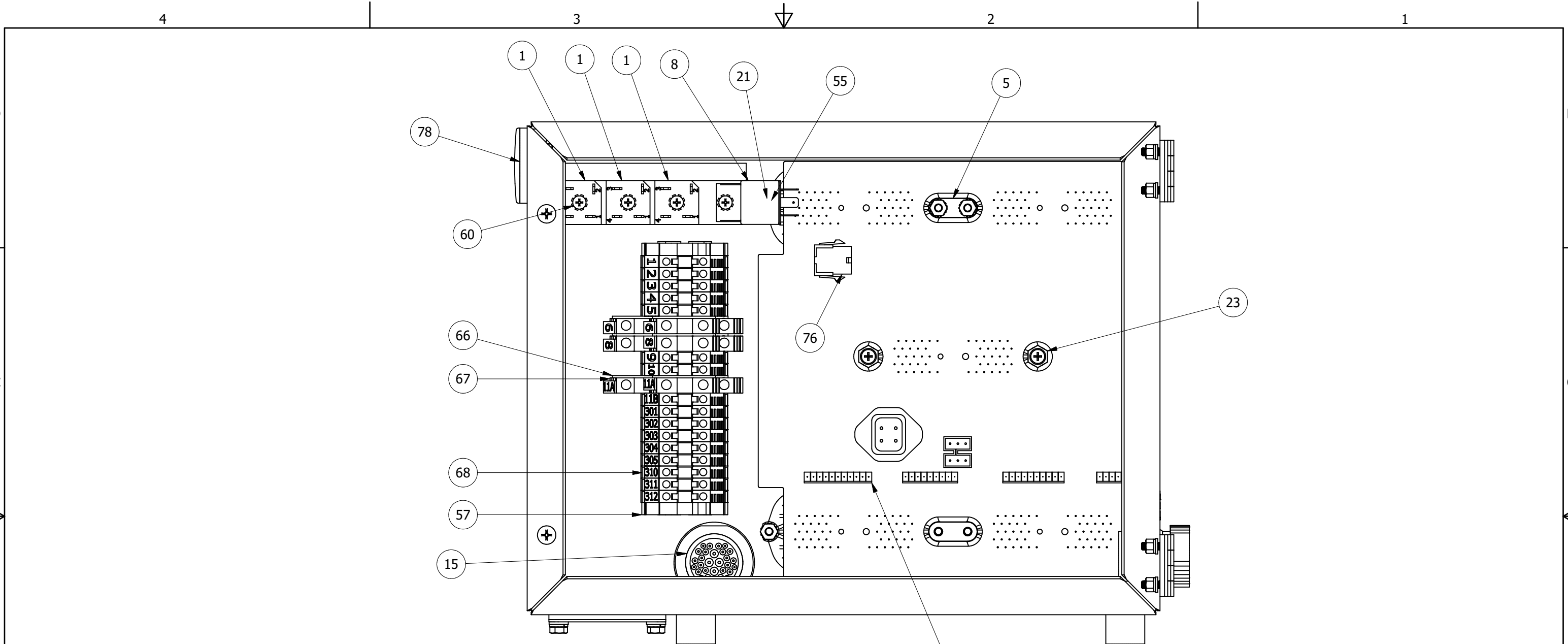
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OF

12

CLARKE

Fire Protection Products, Inc.



ITEM	CLARKE P/N	QTY	DESCRIPTION
1	C071007	3	RECTIFIER DIODE
5	C071477	2	SPACER, SUPPORT BRACKET MOUNTING PLATE
8	C071491	2	RELAY, 5 TERMINAL SPDT, 24V
13	C072817	1	SWITCHBOARD, MESB, CATERPILLAR
15	HDP24-24-29PE	1	29 PIN CONNECTOR
21	C125790	10	TERMINAL CUP WASHER
23	C125822	2	SPACER, 1/2" HEX, 10-32 X 2.5" LG.
48	112264	1	COILED LOCK WASHER
57	1061200000_15292_WEW-35-2	2	END STOP
60	ANSI B18.6.3 - No. 10 - 32 - 3/4	4	Cross Recessed Fillister Head Machine Screw - Type I
66	WAP WDK10	3	PARTITION (WAP WDK 10)
67	WDK 10V	3	TERMINAL, DOUBLE TIER (WDK 10V)
68	WDU_6_SL-EN_9537470000	16	WDU 6 SL/EN - FEED THROUGH TERMINAL
75	C072893	1	CAT ALTERNATE ECU ADAPTER
76	039012086	1	
77	T92S11D22-24	1	RELAY
78	C073068	1	HOLE PLUG

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MACHINE TOLERANCE		
DECIMAL	mm	inch
X.	± 1.5	
X.X	± 0.8	± 0.06
X.XX	± 0.3	± 0.03
X.XXX	± 0.025	± 0.01
X.XXXX		± 0.001
ANGULAR: ± 0.5°		
FABRICATION TOLERANCE		
DECIMAL	mm	inch
X.	± 3	
X.X	± 1.5	± 0.12
X.XX		± 0.06
ANGULAR: ± 1.0°		

☒ YES

☐ NO

CONTROLLED DRAWING

DRWN

MJDEMBKOWSKI

DATE

3/1/2021

ENGR

MJDEMBKOWSKI

MATERIAL

AS NOTED

ASSEMBLY

SIMILAR TO

C072120-C072121

NAME

INSTRUMENT PANEL, 24V C32

PART NO.

C073148

SCALE

NTS

UNITS

MM [INCH]

REV

B

PAGE

4

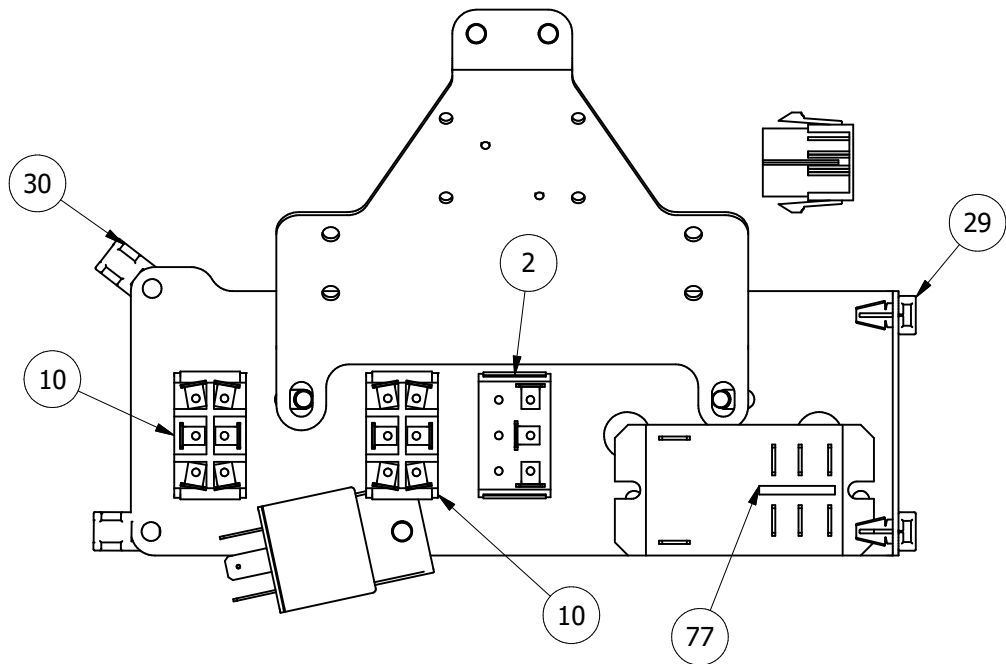
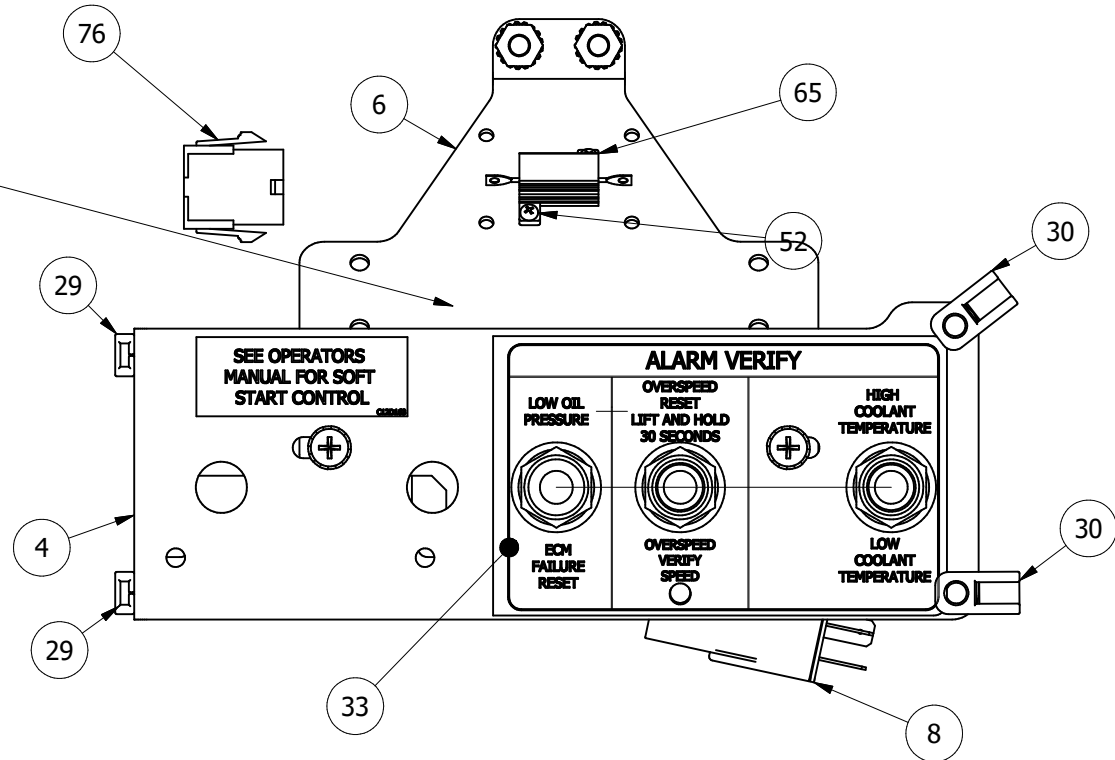
OF

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CLARKE

Fire Protection Products, Inc.

ADD LABEL



ITEM	CLARKE P/N	QTY	DESCRIPTION
2	C071075	1	SWITCH, SPDT, MOM. ON - OFF, MOM. ON
4	C071319	1	PLATE, TOGGLE SWITCH MOUNT
6	C071478	1	BRACKET, SUPPORT SWITCHPLATE
8	C071491	2	RELAY, 5 TERMINAL SPDT, 24V
10	C072129	3	TOGGLE SWITCH, DPDT, MOM. ON - MOM. ON
20	C10438	1	BRACKET, HARNESS SUPPORT
29	C126030	2	CABLE TIE MOUNT, TWO WAY PUSH
30	C126034	3	CABLE TIE MOUNT, 4 WAY SCREW
31	C12881	9	BOOT, TOGGLE SWITCH
33	C12D205	1	OPERATING INSTRUCTION LABEL, CAT PLD SWITCHPLATE
35	C12C974	4	MACHINE SCREW, #4-40 X 3/16", NYLON (McMaster 93135A271)
48	112264	1	COILED LOCK WASHER
52	NPN	5	*Varies*
65	RH0102K000FE02	1	RESISTOR, WIREWOUND, 2 KOHM, 12.5W
76	039012086	1	
77	T92S11D22-24	1	RELAY
79	C12D163	1	LABEL, SOFT START CONTROL

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MACHINE TOLERANCE DECIMAL mm inch X. ± 1.5 ± 0.06 X.X ± 0.3 ± 0.03 X.XXX ± 0.025 ± 0.01 X.XXXX ± 0.001 ± 0.001 ANGULAR: ± 0.5°		DRWN MJDEMBKOWSKI DATE 3/1/2021 ENGR MJDEMBKOWSKI MATERIAL AS NOTED		NAME INSTRUMENT PANEL, 24V C32	
FABRICATION TOLERANCE DECIMAL mm inch X. ± 3 ± 0.12 X.X ± 1.5 ± 0.12 X.XX ± 0.06 ± 0.06 ANGULAR: ± 1.0°		ASSEMBLY SIMILAR TO C072120-C072121		PART NO. C073148 SCALE NTS UNITS MM [INCH] PAGE 5 OF 12 REV B	

4				3				2				1			
Wire #	Wire Color	Length	Wire AWG	Start Location	Start Terminal	Start Connector	End Location	End Terminal	End Connector	Splice Detail					
L-701	GREY	6	18	18 BLOCK 1	ULTRA SONIC WELD		17 POST 1	RED FEMALE SLIP SPADE							
L-701D	GREY	18	18	18 BLOCK 1	ULTRA SONIC WELD		25 PIN 1	60619-1 - AMP	1-480270-0 - AMP						
K-702	BROWN	9	18	18 BLOCK 2	ULTRA SONIC WELD		SPLICE	(SPLICE AT DIODE)		15					
K-702A	BROWN	4	18	18 BLOCK 2			SPLICE	(SPLICE AT DIODE)		15					
K-702C	BROWN	8	18	25 PIN 2	60619-1 - AMP	1-480270-0 - AMP	SPLICE	(SPLICE AT DIODE)		15					
K-702D	BROWN	12	18	36 POST 85	RED FEMALE SLIP SPADE		SPLICE	(SPLICE AT DIODE)		15					
K-702E	BROWN	4	18	17 POST 3	BLUE FEMALE SLIP SPADE		SPLICE	(SPLICE AT DIODE)		15					
G-703B	BLUE	6	18	18 BLOCK 3	ULTRA SONIC WELD		39 POST 87	RED FEMALE SLIP SPADE							
G-703C	BLUE	10	18	18 BLOCK 3			19 PIN 25	0460-202-16141 - TE	HDP24-24-29PE - TE						
C-704	ORANGE	18	18	18 BLOCK 4	ULTRA SONIC WELD		25 PIN 4	60619-1 - AMP	1-480270-0 - AMP	29					
C-704A	ORANGE	21	18	18 BLOCK 4			36 POST 87a	RED FEMALE SLIP SPADE		29					
G-705	BLUE	18	18	18 BLOCK 5	ULTRA SONIC WELD		25 PIN 5	60619-1 - AMP	1-480270-0 - AMP						
B-706A	RED	45	14	18 BLOCK 6-3	ULTRA SONIC WELD		9 MIDDLE RIGHT POST	90* YELLOW FEMALE SLIP SPADE		1					
B-706D	RED	11.5	12	18 BLOCK 6-3			19 PIN 1	0460-204-12141 - TE	HDP24-24-29PE - TE	1					
B-706B	RED	9	12	18 BLOCK 6-4	ULTRA SONIC WELD		16 POST 3	YELLOW FEMALE SLIP SPADE		16					
B-706C	RED	11	12	18 BLOCK 6-4			15 POST 3	BLUE FEMALE SLIP SPADE		16					
A-708A	WHITE	41	14	18 BLOCK 8-3	ULTRA SONIC WELD		8 MIDDLE RIGHT POST	90* YELLOW FEMALE SLIP SPADE		2					
A-708D	WHITE	11	12	18 BLOCK 8-3			19 PIN 2	0460-204-12141 - TE	HDP24-24-29PE - TE	2					
A-708B	WHITE	11	12	18 BLOCK 8-4	ULTRA SONIC WELD		16 POST 1	YELLOW FEMALE SLIP SPADE		17					
A-708C	WHITE	12	12	18 BLOCK 8-4			15 POST 1	YELLOW FEMALE SLIP SPADE		17					
D-709A	YELLOW	44	16	18 BLOCK 9	ULTRA SONIC WELD		9 BOTTOM RIGHT POST	90* BLUE FEMALE SLIP SPADE		18					
D-709B	YELLOW	10	16	18 BLOCK 9			19 PIN 5	0460-215-16141 - TE	HDP24-24-29PE - TE	18					
E-710A	GREEN	40	16	18 BLOCK 10	ULTRA SONIC WELD		8 BOTTOM RIGHT POST	90* BLUE FEMALE SLIP SPADE		19					
E-710B	GREEN	9.5	16	18 BLOCK 10			19 PIN 16	0460-215-16141 - TE	HDP24-24-29PE - TE	19					
J-711A	BLACK	10	12	18 BLOCK 11A-3	ULTRA SONIC WELD		19 PIN 3	0460-204-12141 - TE	HDP24-24-29PE - TE	20					
J-711D	BLACK	15.5	18	18 BLOCK 11A-3			26 PIN B	0460-215-16141 - TE	HD10-9-96P - TE	20					
J-711E	BLACK	11	18	18 BLOCK 11A-3			17 POST 4	RED FEMALE SLIP SPADE		20					
J-711B	BLACK	13	12	18 BLOCK 11A-4	ULTRA SONIC WELD		24 PIN 3	0462-203-12141 - TE	DT06-4S - TE	21					
J-711C	BLACK	13	12	18 BLOCK 11A-4			24 PIN 4	0462-203-12141 - TE	DT06-4S - TE	21					
J-711F	BLACK	9	12	18 BLOCK 11B	ULTRA SONIC WELD		19 PIN 4	0460-204-12141 - TE	HDP24-24-29PE - TE	20					
E-474E	GREEN	14	18	18 BLOCK 302	ULTRA SONIC WELD		25 PIN 6	60619-1 - AMP	1-480270-0 - AMP						
B-305	RED	36	18	18 BLOCK 305	ULTRA SONIC WELD		3B PIN 2	0462-201-16141 - TE	DT06-12S - TE						
G-312	BLUE	13	18	18 BLOCK 312	ULTRA SONIC WELD		22 PIN 7	1318912-1 - TE	1-1123722-0 - TE						
G-312A	BLUE	19	18	18 BLOCK 312	ULTRA SONIC WELD		14 TOP LEFT POST	90* RED FEMALE SLIP SPADE							
K-702B	BROWN	8	18	19 PIN 13	0460-202-16141 - TE	HDP24-24-29PE - TE	SPLICE	(SPLICE AT DIODE)		15					
C-310	ORANGE	7	18	19 PIN 14	0460-202-16141 - TE	HDP24-24-29PE - TE	18 BLOCK 310	ULTRA SONIC WELD							
M-311	PURPLE	7	18	19 PIN 15	0460-202-16141 - TE	HDP24-24-29PE - TE	18 BLOCK 311	ULTRA SONIC WELD							
J-905D	BLACK	34	shielded	20 PIN 1	1318912-1 - TE	1-1123722-1 - TE	3A PIN 3	0462-201-16141 - TE	DT06-6S - TE	25					
B-904D	RED	34		20 PIN 2	1318912-1 - TE	1-1123722-1 - TE	3A PIN 2	0462-201-16141 - TE	DT06-6S - TE	25					
020D	SHIELD	34	wire	20 PIN 3	1318912-1 - TE	1-1123722-1 - TE	Cover Wie			25					
J-905C	BLACK	12	shielded	20 PIN 4	1318912-1 - TE	1-1123722-1 - TE	26 PIN F	0460-215-16141 - TE	HD10-9-96P - TE	33					
B-904C	RED	12		20 PIN 5	1318912-1 - TE	1-1123722-1 - TE	26 PIN G	0460-215-16141 - TE	HD10-9-96P - TE	33					
020C	SHIELD	12	wire	20 PIN 6	1318912-1 - TE	1-1123722-1 - TE	26 PIN C	0460-202-16141 - TE	HD10-9-96P - TE	33					
M-700A	PURPLE	33	18	20 PIN 7	1318912-1 - TE	1-1123722-1 - TE	8 BOTTOM LEFT POST	90* BLUE FEMALE SLIP SPADE		4					
M-700B	PURPLE	8	18	8 BOTTOM LEFT POST	90* BLUE FEMALE SLIP SPADE		9 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE		4					
B-743A	RED	32	18	20 PIN 8	1318912-1 - TE	1-1123722-1 - TE	33 MIDDLE POST	BLUE FEMALE SLIP SPADE		22					
B-743B	RED	12	18	20 PIN 9	1318912-1 - TE	1-1123722-1 -TE	26 PIN A	0460-215-16141 - TE	HD10-9-96P - TE	32					
B-743C	RED	40	18	20 PIN 10	1318912-1 - TE	1-1123722-1 - TE	5 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		5					
B-743D	RED	31.5	18	20 PIN 11	1318912-1 - TE	1-1123722-1 - TE	6 POST 2	90* RED FEMALE SLIP SPADE							
L-804A	GREY	28.5	18	21 PIN 6	1318912-1 - TE	1-1123722-9 - TE	6 POST 1	90* BLUE FEMALE SLIP SPADE		23					
D-600	YELLOW*	11	18	21 PIN 7	1318912-1 - TE	1-1123722-9 - TE	26 PIN D	0460-202-16141 - TE	HD10-9-96P - TE						
J-601	BLACK*	11	18	21 PIN 8	1318912-1 - TE	1-1123722-9 TE	26 PIN E	0460-202-16141 - TE	HD10-9-96P - TE						
E-602	GREEN	11	18	21 PIN 9	1318912-1 - TE	1-1123722-9 TE	23 PIN 3	1318912-1 - TE	1-1123722-8 - TE						
L-305A	GREY	39	18	3A PIN 5	0462-201-16141 - TE	DT06-6S - TE	13 TOP RIGHT POST	90* RED FEMALE SLIP SPADE							
I-603	PINK	19	18	22 PIN 1	1318912-1 - TE	1-1123722-9 TE	13 BOTTOM RIGHT POST	90* RED FEMALE SLIP SPADE							
B-240	RED	18	18	22 PIN 5	1318912-1 - TE	1-1123722-9 TE	41 POST 0	90* RED FEMALE SLIP SPADE							
D-793B	YELLOW	16	18	22 PIN 6	1318912-1 - TE	1-1123722-0 TE	13 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE							
M-917	PURPLE	16.5	18	22 PIN 8	1318912-1 - TE	1-1123722-0 TE	31 BOTTOM POST	90* RED FEMALE SLIP SPADE							
A-918	WHITE	15	18	22 PIN 9	1318912-1 - TE	1-1123722-0 TE	14 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE							
G-312B	BLUE	17	18	22 PIN 10	1318912-1 - TE	1-1123722-0 TE	14 TOP RIGHT POST	90* BLUE FEMALE SLIP SPADE							
L-793	GREY	44	18	23 PIN 6	1318912-1 - TE	1-1123722-8 TE	10 BOTTOM POST	90* RED FEMALE SLIP SPADE		26					
E-777	GREEN	41	18	23 PIN 8	1318912-1 - TE	1-1123722-8 TE	5 TOP RIGHT POST	90* RED FEMALE SLIP SPADE							

*	1" Twisted Wires		
Location #	Location Description		
1	Battery Selector Switch		
3A	6 PIN PV Diagnostic Gauge		
3B	12 PIN PV Diagnostic Guage		
4	Manual Mode Warning Lamp		
5	Auto/Manual Run Selector Switch		
6	Alternate ECM Warning Lamp		
7	ECM Selector Switch		
8	Crank Switch 2		
9	Crank Switch 1		
10	Manual Stop Switch		
13	Overspeed Reset & Overspeed Verify Swich		
14	HI Water Temp & Low Water Temp Verify Switch		
15	Battery Bridge 2		
16	Battery Bridge 1		
17	Coolant Bridge		
18	Terminal Blocks		
19	Power Harness Deutch Connector		
20	White 11 Pin Connector		
21	White 9 Pin Connector		
22	White 10 Pin Connector		
23	White 8 Pin Connector		
24	Deutch 4 Pin Connector		
25	White 6 Pin Connector		
26	9 Pin Diagnostic Deutch Connector		
31	Low Oil Pressure Verify/ECM Failure Reset		
32	Auto Switching Base Module		
33	Manual Display On Switch		
35	2K Ohm Power Resister		
36	Low Oil Pressure Relay		
37	Voltage Divider Circuit Board		
38	Ground Stud		
39	Overspeed Relay		
40	SenderCAN		
41	Injector Relay		

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MACHINE TOLERANCE
DECIMAL mm inch
X. ± 1.5
X.X ± 0.8 ± 0.06
X.XX ± 0.3 ± 0.03
X.XXX ± 0.025 ± 0.01
X.XXXX ± 0.01
ANGULAR: ± 0.5°
FABRICATION TOLERANCE
DECIMAL mm inch
X. ± 3
X.X ± 1.5 ± 0.12
X.XX ± 0.06
ANGULAR: ± 1.0°

☒ YES

☐ NO

CONTROLLED DRAWING

DRWN MJDEMBKOWSKI
DATE
ENGR MJDEMBKOWSKI
MATERIAL AS NOTED
ASSEMBLY
SIMILAR TO C072120-C072121

NAME
INSTRUMENT PANEL, 24V C32
PART NO. C073148
SCALE NTS
UNITS MM [INCH]

REV B
PAGE 6 OF 12

CLARKE

Fire Protection Products, Inc.

4

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2

1

4

3

2

1

Wire #	Wire Color	Length	Wire AWG	Start Location	Start Terminal	Start Connector	End Location	End Terminal	End Connector	Splice Detail
J-754A	BLACK	38	18	23 PIN 2	1318912-1 - TE	1-1123722-8 TE	3A PIN 6	0462-201-16141 - TE	DT06-6S - TE	
J-754C	BLACK	31	18	23 PIN 4	1318912-1 - TE	1-1123722-8 TE	38	BLUE #10 RING		7
J-754D	BLACK	16	18	23 PIN 5	1318912-1 - TE	1-1123722-8 TE	36 POST 86	BLUE FEMALE SLIP SPADE		8
J-754E	BLACK	4	18	36 POST 86	BLUE FEMALE SLIP SPADE		36 POST 30	BLUE FEMALE SLIP SPADE		8
J-754F	BLACK	4	18	36 POST 30	BLUE FEMALE SLIP SPADE		14 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		8
J-754G	BLACK	4	18	14 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		14 MIDDLE LEFT POST	90* BLUE FEMALE SLIP SPADE		8
J-754H	BLACK	4	18	14 MIDDLE LEFT POST	90* BLUE FEMALE SLIP SPADE		13 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		8
J-754I	BLACK	4	18	13 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		13 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		8
J-754J	BLACK	4	18	13 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		31 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		8
J-754K	BLACK	4	18	31 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		41 POST 1	90* RED FEMALE SLIP SPADE		
J-754N	BLACK	28	18	41 POST 1	90* BLUE FEMALE SLIP SPADE		35 SIDE B	SOLDER 2K OHM POWER RESISTER		8
J-754P	BLACK	20	18	35 SIDE A	SOLDER 2K OHM POWER RESISTER		21 PIN 3	1318912-1 - TE	1-1123722-9 - TE	8
J-754R	BLACK	15	18	10 MIDDLE POST	90* RED FEMALE SLIP SPADE		7 MIDDLE RIGHT POST	90* BLUE FEMALE SLIP SPADE		7
J-754S	BLACK	4	18	7 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		7 MIDDLE LEFT POST	90* BLUE FEMALE SLIP SPADE		7
B-227	RED	18	18	26 PIN A	0460-215-16141 - TE	HD10-9-96P - TE	40 PIN 1	39000062 - Molex	39-01-2086 - Molex	32
J-228	BLACK	18	18	26 PIN B	0460-215-16141 - TE	HD10-9-96P - TE	40 PIN 2	39000062 - Molex	39-01-2086 - Molex	20
229	SHIELD	14	22-2	26 PIN C	0460-202-16141 - TE	HD10-9-96P - TE	Cover Wie			33
J-230	BLACK	18	shielded	26 PIN F	0460-215-16141 - TE	HD10-9-96P - TE	40 PIN 3	39000062 - Molex	39-01-2086 - Molex	33
B-231	RED/WHITE	18	wire	26 PIN G	0460-215-16141 - TE	HD10-9-96P - TE	40 PIN 4	39000062 - Molex	39-01-2086 - Molex	33
M-225C	PURPLE	14	18	19 PIN 21	0460-202-16141 - TE	HDP24-24-29PE - TE	40 PIN 5	39000062 - Molex	39-01-2086 - Molex	
C-226D	ORANGE	14	18	19 PIN 22	0460-202-16141 - TE	HDP24-24-29PE - TE	40 PIN 6	39000062 - Molex	39-01-2086 - Molex	
B-221	ORANGE	16	18	19 PIN 17	0460-202-16141 - TE	HDP24-24-29PE - TE	23 PIN 1	1318912-1 - TE	1-1123722-1 - TE	
C-385	ORANGE	9	18	39 POST 85	BLUE FEMALE SLIP SPADE		15 POST 2	YELLOW FEMALE SLIP SPADE		27
B-330	RED	4.5	18	39 POST 85	BLUE FEMALE SLIP SPADE		39 POST 30	RED FEMALE SLIP SPADE		27
A-386	WHITE	42	18	39 POST 86	RED FEMALE SLIP SPADE		3A PIN 4	0462-201-16141 - TE	DT06-6S - TE	
B-803	RED	16	18	32 PIN 3	M23S05K351 - JAE	MX23A26SF1 - JAE	33 MIDDLE POST	90* BLUE FEMALE SLIP SPADE		22
L-804	GREY	9	18	32 PIN 4	M23S05K351 - JAE	MX23A26SF1 - JAE	6 POST 1	90* BLUE FEMALE SLIP SPADE		23
K-805	BROWN	44	18	32 PIN 5	M23S05K351 - JAE	MX23A26SF1 - JAE	18 BLOCK 2	ULTRA SONIC WELD		15
J-806	BLACK	37	18	32 PIN 6	M23S05K351 - JAE	MX23A26SF1 - JAE	35 SIDE A	SOLDER 2K OHM POWER RESISTER		8
J-807	BLACK	14	18	32 PIN 7	M23S05K351 - JAE	MX23A26SF1 - JAE	38	RED #10 RING		24
L-809	GREY	40	18	32 PIN 9	M23S05K351 - JAE	MX23A26SF1 - JAE	18 BLOCK 301	ULTRA SONIC WELD		
C-810	ORANGE	7.5	18	32 PIN 10	M23S05K351 - JAE	MX23A26SF1 - JAE	7 BOTTOM RIGHT POST	90* RED FEMALE SLIP SPADE		
J-811	BLACK	14	18	32 PIN 11	M23S05K351 - JAE	MX23A26SF1 - JAE	38	BLUE #10 RING		24
B-812	RED	41	18	32 PIN 12	M23S05K351 - JAE	MX23A26SF1 - JAE	18 BLOCK 303	ULTRA SONIC WELD		
A-813	WHITE	41	18	32 PIN 13	M23S05K351 - JAE	MX23A26SF1 - JAE	18 BLOCK 304	ULTRA SONIC WELD		
L-814	GREY	38	18	32 PIN 14	M23S05K351 - JAE	MX23A26SF1 - JAE	23 PIN 7	1318912-1 - TE	1-1123722-8 - TE	
E-816	GREEN	9	18	32 PIN 16	M23S05K351 - JAE	MX23A26SF1 - JAE	7 BOTTOM LEFT POST	RED FEMALE SLIP SPADE		
M-817	PURPLE	8	18	32 PIN 17	M23S05K351 - JAE	MX23A26SF1 - JAE	7 TOP LEFT POST	RED FEMALE SLIP SPADE		
D-818	YELLOW	8	18	32 PIN 18	M23S05K351 - JAE	MX23A26SF1 - JAE	7 TOP RIGHT POST	90* RED FEMALE SLIP SPADE		
E-820	GREEN	39	18	32 PIN 20	M23S05K351 - JAE	MX23A26SF1 - JAE	31 TOP POST	90* RED FEMALE SLIP SPADE		
B-822	RED	38	22-2	32 PIN 22	M23S05K351 - JAE	MX23A26SF1 - JAE	20 PIN 2	1318912-1 - TE	1-1123722-1 - TE	25
J-823	BLACK	38	shielded	32 PIN 23	M23S05K351 - JAE	MX23A26SF1 - JAE	20 PIN 1	1318912-1 - TE	1-1123722-1 - TE	25
824	BARE	38	wire	32 PIN 24	M23S05K351 - JAE	MX23A26SF1 - JAE	20 PIN 3	1318912-1 - TE	1-1123722-1 - TE	25
L-825	GREY	16	18	32 PIN 25	M23S05K351 - JAE	MX23A26SF1 - JAE	10 BOTTOM POST	90* BLUE FEMALE SLIP SPADE		26
B-747	RED	19	18	37 PIN 1	45750-1112 - Molex	39-01-2160 - Molex	9 MIDDLE RIGHT POST	90* YELLOW FEMALE SLIP SPADE		1
C-747A	ORANGE	13	18	37 PIN 2	45750-1112 - Molex	39-01-2160 - Molex	3B PIN 4	0462-201-16141 - TE	DT06-12S - TE	
L-748A	GRAY	13	18	37 PIN 3	45750-1112 - Molex	39-01-2160 - Molex	3B PIN 5	0462-201-16141 - TE	DT06-12S - TE	
A-748	WHITE	15	18	37 PIN 4	45750-1112 - Molex	39-01-2160 - Molex	8 MIDDLE RIGHT POST	90* YELLOW FEMALE SLIP SPADE		2
B-774B	RED	5	18	33 BOTTOM POST	90* BLUE FEMALE SLIP SPADE		SPLICE	(SPLICE AT DIODE)		30
B-774D	RED	34	18	17 POST 2	YELLOW FEMALE SLIP SPADE		SPLICE	(SPLICE AT DIODE)		30
B-774C	RED	6	18	37 PIN 5	45750-1112 - Molex	39-01-2160 - Molex	33 BOTTOM POST	90* BLUE FEMALE SLIP SPADE		30
C-774A	ORANGE	14	18	37 PIN 6	45750-1112 - Molex	39-01-2160 - Molex	3A PIN 1	0462-201-16141 - TE	DT06-6S - TE	
J-755	BLACK	5	18	37 PIN 16	45750-1112 - Molex	39-01-2160 - Molex	38	BLUE #10 RING		31
J-755A	BLACK	11	18	38	BLUE #10 RING		3B PIN 12	0462-201-16141 - TE	DT06-12S - TE	31
G-766A	BLUE	20	12	16 POST 2	YELLOW FEMALE SLIP SPADE		24 PIN 1	0462-203-12141 - TE	DT06-4S - TE	
C-766B	ORANGE	22	12	15 POST 2	YELLOW FEMALE SLIP SPADE		24 PIN 2	0462-203-12141 - TE	DT06-4S - TE	27
B-743F	RED	4	18	5 MIDDLE RIGHT POST	BLUE FEMALE SLIP SPADE		5 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		5
B-743G	RED	23	18	8 MIDDLE LEFT POST	90* BLUE FEMALE SLIP SPADE		5 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		5
B-743H	RED	7	18	9 MIDDLE LEFT POST	90* RED FEMALE SLIP SPADE		8 MIDDLE LEFT POST	90* BLUE FEMALE SLIP SPADE		5
J-797C	BLACK	19	18	7 MIDDLE LEFT POST	BLUE FEMALE SLIP SPADE		4 POST 1	90* BLUE FEMALE SLIP SPADE		7
J-769	BLACK	15	18	4 POST 1	90* BLUE FEMALE SLIP SPADE		38	BLUE #10 RING		7
K-768	BROWN	4	18	5 BOTTOM LEFT POST	90* RED FEMALE SLIP SPADE		4 POST 2	90* RED FEMALE SLIP SPADE		
D-756	YELLOW	48	18	17 POST 3	BLUE FEMALE SLIP SPADE		5 BOTTOM RIGHT POST	90* RED FEMALE SLIP SPADE		15
B-773	RED	16	18	17 POST 2	YELLOW FEMALE SLIP SPADE		19 PIN 16	0460-202-16141 - TE	HDP24-24-29PE - TE	30
I-242	PINK	25	18	41 POST 3	90* RED FEMALE SLIP SPADE		19 PIN 9	0460-202-16141 - TE	HDP24-24-29PE - TE	
C-243	ORANGE	26	18	41 POST 2	90* RED FEMALE SLIP SPADE		19 PIN 11	0460-202-16141 - TE	HDP24-24-29PE - TE	
B-244	RED	25	18	41 POST 4	90* RED FEMALE SLIP SPADE		19 PIN 7	0460-202-16141 - TE	HDP24-24-29PE - TE	
L-246	GRAY	25.5	18	41 POST 7	90* RED FEMALE SLIP SPADE		19 PIN 10	0460-202-16141 - TE	HDP24-24-29PE - TE	
D-247	YELLOW	26	18	41 POST 6	90* RED FEMALE SLIP SPADE		19 PIN 12	0460-202-16141 - TE	HDP24-24-29PE - TE	
A-248	WHITE	25.5	18	41 POST 8	90* RED FEMALE SLIP SPADE		19 PIN 8	0460-202-16141 - TE	HDP24-24-29PE - TE	

4

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2

1

*	1" Twisted Wires
Location #	Location Description
1	Battery Selector Switch
3A	6 PIN PV Diagnostic Gauge
3B	12 PIN PV Diagnostic Guage
4	Manual Mode Warning Lamp
5	Auto/Manual Run Selector Switch
6	Alternate ECM Warning Lamp
7	ECM Selector Switch
8	Crank Switch 2
9	Crank Switch 1
10	Manual Stop Switch
13	Overspeed Reset & Overspeed Verify Swich
14	HI Water Temp & Low Water Temp Verify Switch
15	Battery Bridge 2
16	Battery Bridge 1
17	Coolant Bridge
18	Terminal Blocks
19	Power Harness Deutch Connector
20	White 11 Pin Connector
21	White 9 Pin Connector
22	White 10 Pin Connector
23	White 8 Pin Connector
24	Deutch 4 Pin Connector
25	White 6 Pin Connector
26	9 Pin Diagnostic Deutch Connector
31	Low Oil Pressure Verify/ECM Failure Reset
32	Auto Switching Base Module
33	Manual Display On Switch
35	2K Ohm Power Resister
36	Low Oil Pressure Relay
37	Voltage Divider Circuit Board
38	Ground Stud
39	Overspeed Relay
40	SenderCAN
41	Injector Relay

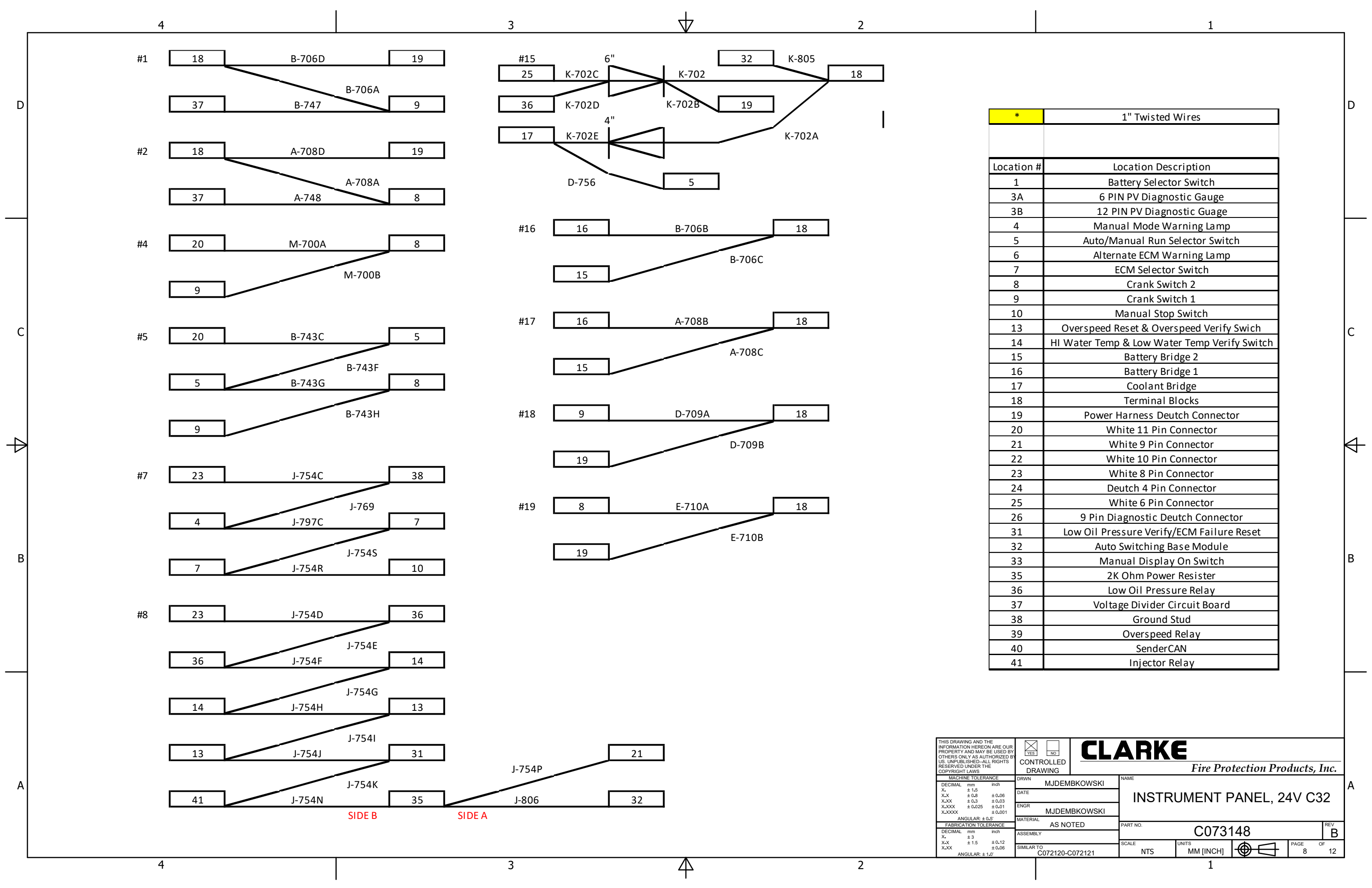
THIS DRAWING AND THE INFORMATION HEREON ARE OUR PROPERTY AND MAY BE USED BY OTHERS ONLY AS AUTHORIZED BY US. UNPUBLISHED--ALL RIGHTS RESERVED UNDER THE COPYRIGHT LAWS		☒ YES ☐ NO CONTROLLED DRAWING		CLARKE <i>Fire Protection Products, Inc.</i>	
MACHINE TOLERANCE DECIMAL mm inch X. ± 1.5 X.X ± 0.8 X.XX ± 0.3 X.XXX ± 0.025 X.XXXX ± 0.001		DRWN MJDEMBKOWSKI DATE ENGR MJDEMBKOWSKI MATERIAL AS NOTED		NAME INSTRUMENT PANEL, 24V C32	
FABRICATION TOLERANCE DECIMAL mm inch X. ± 3 X.X ± 1.5 X.XX ± 0.12 X.XXX ± 0.06 ANGULAR: ± 1.0°		ASSEMBLY SIMILAR TO C072120-C072121		PART NO. C073148 SCALE NTS UNITS MM [INCH]  PAGE 7 OF 12	

4

3

2

1



*	1" Twisted Wires
Location #	Location Description
1	Battery Selector Switch
3A	6 PIN PV Diagnostic Gauge
3B	12 PIN PV Diagnostic Guage
4	Manual Mode Warning Lamp
5	Auto/Manual Run Selector Switch
6	Alternate ECM Warning Lamp
7	ECM Selector Switch
8	Crank Switch 2
9	Crank Switch 1
10	Manual Stop Switch
13	Overspeed Reset & Overspeed Verify Swich
14	HI Water Temp & Low Water Temp Verify Switch
15	Battery Bridge 2
16	Battery Bridge 1
17	Coolant Bridge
18	Terminal Blocks
19	Power Harness Deutsch Connector
20	White 11 Pin Connector
21	White 9 Pin Connector
22	White 10 Pin Connector
23	White 8 Pin Connector
24	Deutsch 4 Pin Connector
25	White 6 Pin Connector
26	9 Pin Diagnostic Deutch Connector
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33	Manual Display On Switch
35	2K Ohm Power Resister
36	Low Oil Pressure Relay
37	Voltage Divider Circuit Board
38	Ground Stud
39	Overspeed Relay
40	SenderCAN
41	Injector Relay

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YES

NO

CONTROLLED DRAWING

MACHINE TOLERANCE

DECIMAL mm inch

X. ± 1.5 ± 0.06

X.X ± 0.8 ± 0.03

X.XX ± 0.3 ± 0.01

X.XXX ± 0.025 ± 0.001

X.XXXX

ANGULAR: ± 0.5°

FABRICATION TOLERANCE

DECIMAL mm inch

X. ± 3 ± 0.12

X-X ± 1.5 ± 0.06

X.XX

ANGULAR: ± 1.0°

DRWN MJDEMBKOWSKI

DATE

ENGR MJDEMBKOWSKI

MATERIAL AS NOTED

ASSEMBLY

SIMILAR TO C072120-C072121

NAME

C073148

PART NO.

C073148

REV B

CLARKE

Fire Protection Products, Inc.

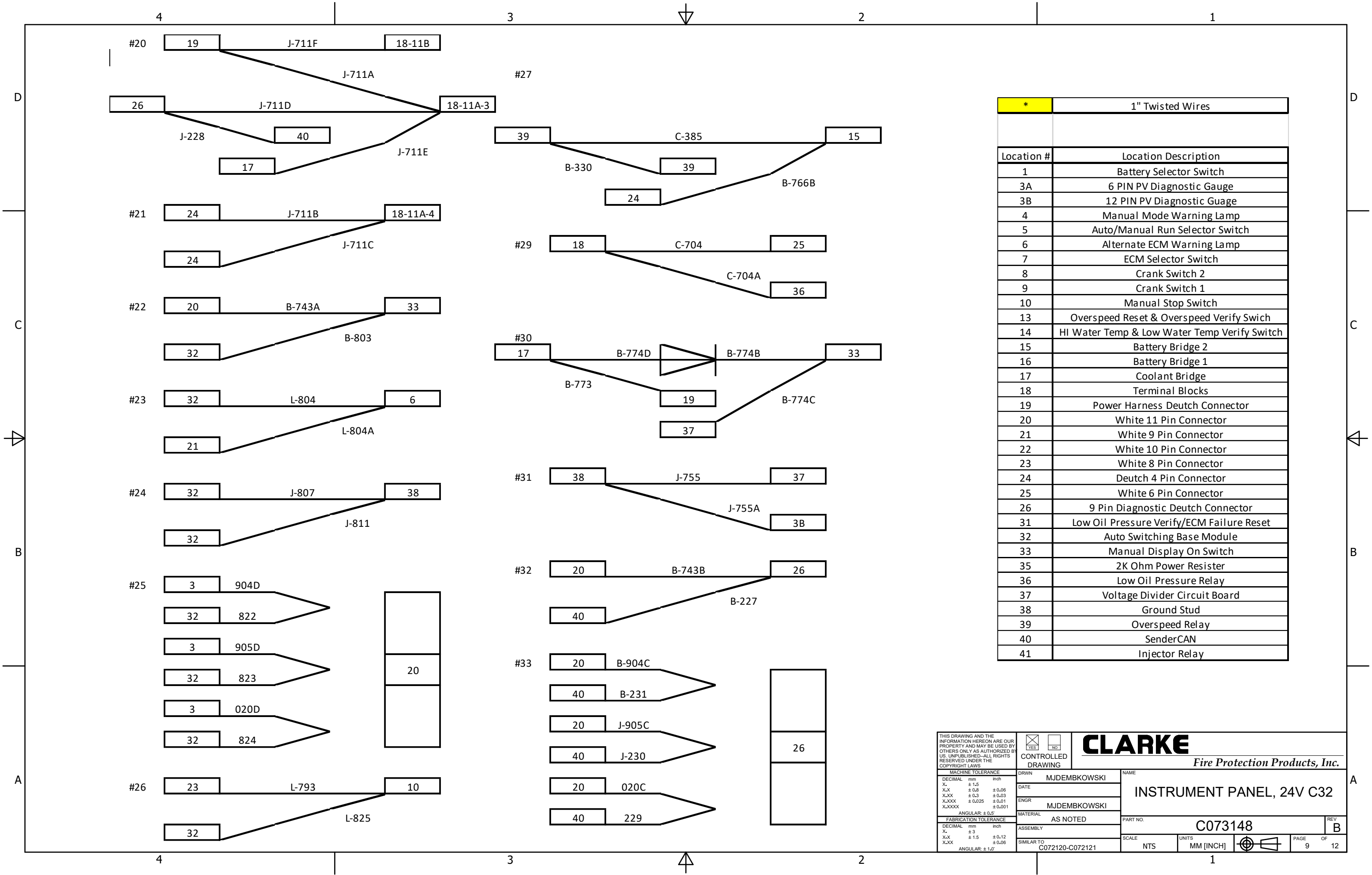
INSTRUMENT PANEL, 24V C32

SCALE NTS

UNITS MM [INCH]

PAGE 8

OF 12



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DECIMAL

mm

inch

X

± 1.5

± 0.06

X.X

± 0.8

± 0.03

X.XX

± 0.3

± 0.01

X.XXX

± 0.025

± 0.001

X.XXXX

± 0.005

± 0.001

FABRICATION TOLERANCE

DECIMAL

mm

inch

X

± 3

± 0.12

X-X

± 1.5

± 0.06

X.XX

± 0.5

± 0.06

ANGULAR: ± 1.0°

YES

NO

CONTROLLED DRAWING

DRWN

MJDEMBKOWSKI

DATE

ENGR

MJDEMBKOWSKI

MATERIAL

AS NOTED

ASSEMBLY

SIMILAR TO

C072120-C072121

NAME

INSTRUMENT PANEL, 24V C32

PART NO.

C073148

SCALE

NTS

UNITS

MM [INCH]

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OF

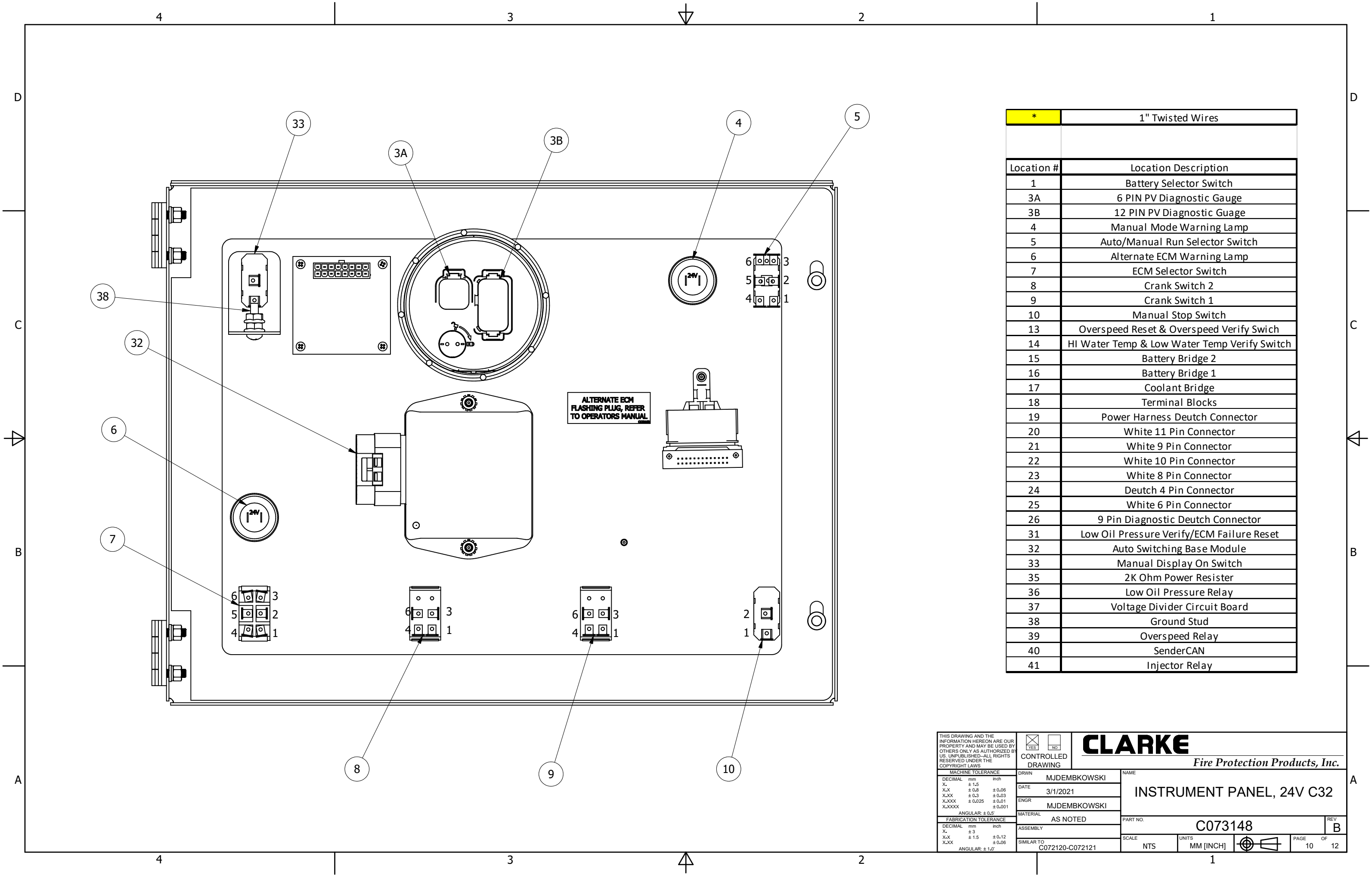
12

REV

B

CLARKE

Fire Protection Products, Inc.



*	1" Twisted Wires
Location #	Location Description
1	Battery Selector Switch
3A	6 PIN PV Diagnostic Gauge
3B	12 PIN PV Diagnostic Guage
4	Manual Mode Warning Lamp
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41	Injector Relay

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DECIMAL	mm	inch
X.	± 1.5	± 0.06
X.X	± 0.8	± 0.03
X.XX	± 0.3	± 0.01
X.XXX	± 0.025	± 0.001
X.XXXX	± 0.01	± 0.0005

ANGULAR: ± 0.5°

DECIMAL	mm	inch
X.	± 3	± 0.12
X.X	± 1.5	± 0.06
X.XX	± 0.75	± 0.03

ANGULAR: ± 1.0°

☒ YES

☐ NO

CONTROLLED DRAWING

DRWN MJDEMBKOWSKI

DATE 3/1/2021

ENGR MJDEMBKOWSKI

MATERIAL AS NOTED

ASSEMBLY

SIMILAR TO C072120-C072121

NAME

INSTRUMENT PANEL, 24V C32

PART NO. C073148

SCALE NTS

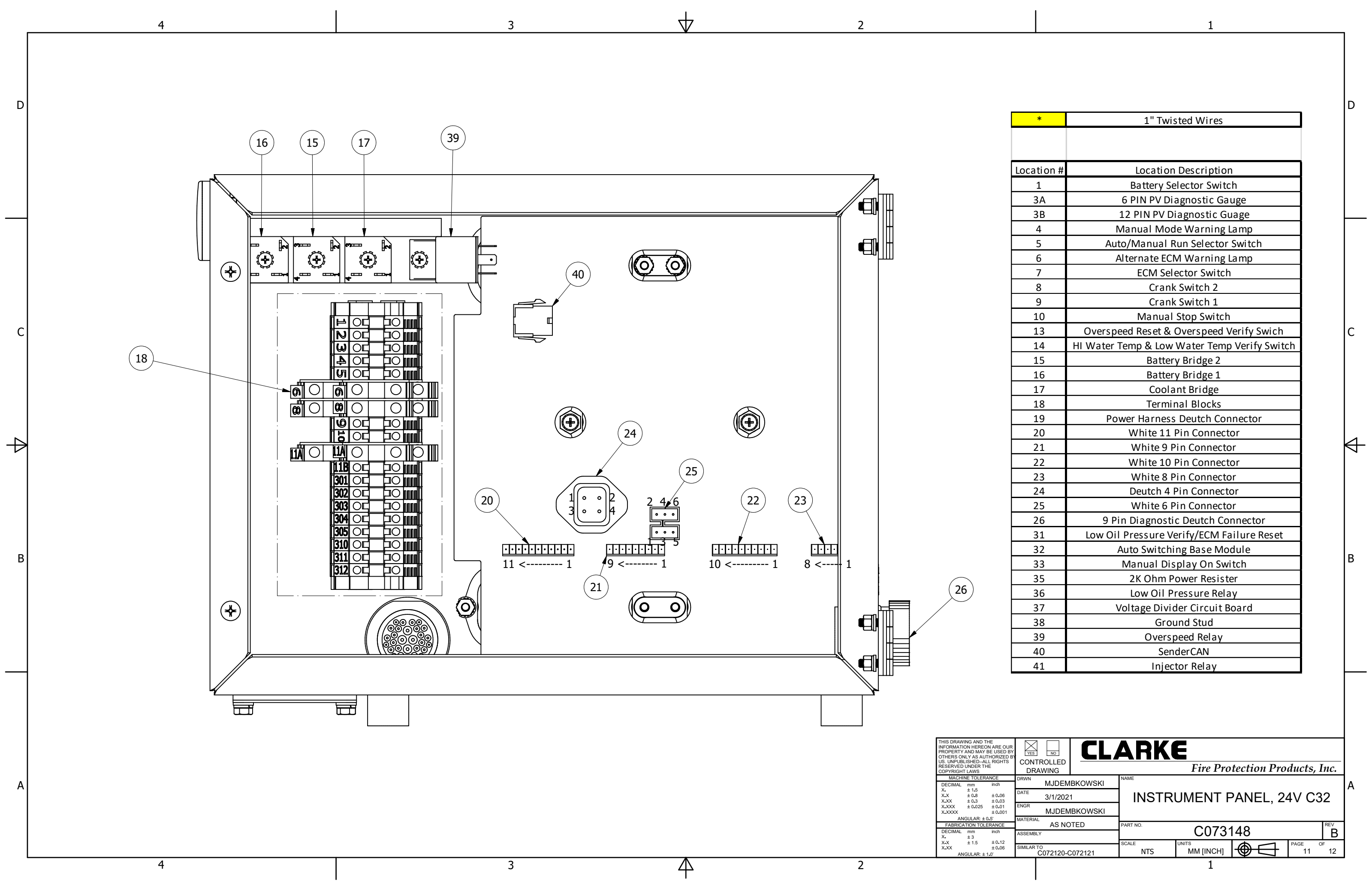
UNITS MM [INCH]

PAGE 10 OF 12

REV B

CLARKE

Fire Protection Products, Inc.



1" Twisted Wires	
Location #	Location Description
1	Battery Selector Switch
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YES

NO

CONTROLLED DRAWING

MACHINE TOLERANCE

DECIMAL mm inch

X. ± 1.5 ± 0.06

X.X ± 0.8 ± 0.03

X.XX ± 0.3 ± 0.01

X.XXX ± 0.025 ± 0.001

X.XXXX ± 0.001 ± 0.0001

FABRICATION TOLERANCE

DECIMAL mm inch

X. ± 3 ± 0.12

X.X ± 1.5 ± 0.06

X.XX ± 0.75 ± 0.03

X.XXX ± 0.375 ± 0.015

X.XXXX ± 0.1875 ± 0.0075

DRWN MJDEMBKOWSKI

DATE 3/1/2021

ENGR MJDEMBKOWSKI

MATERIAL AS NOTED

ASSEMBLY

SIMILAR TO C072120-C072121

NAME

INSTRUMENT PANEL, 24V C32

PART NO. C073148

SCALE NTS

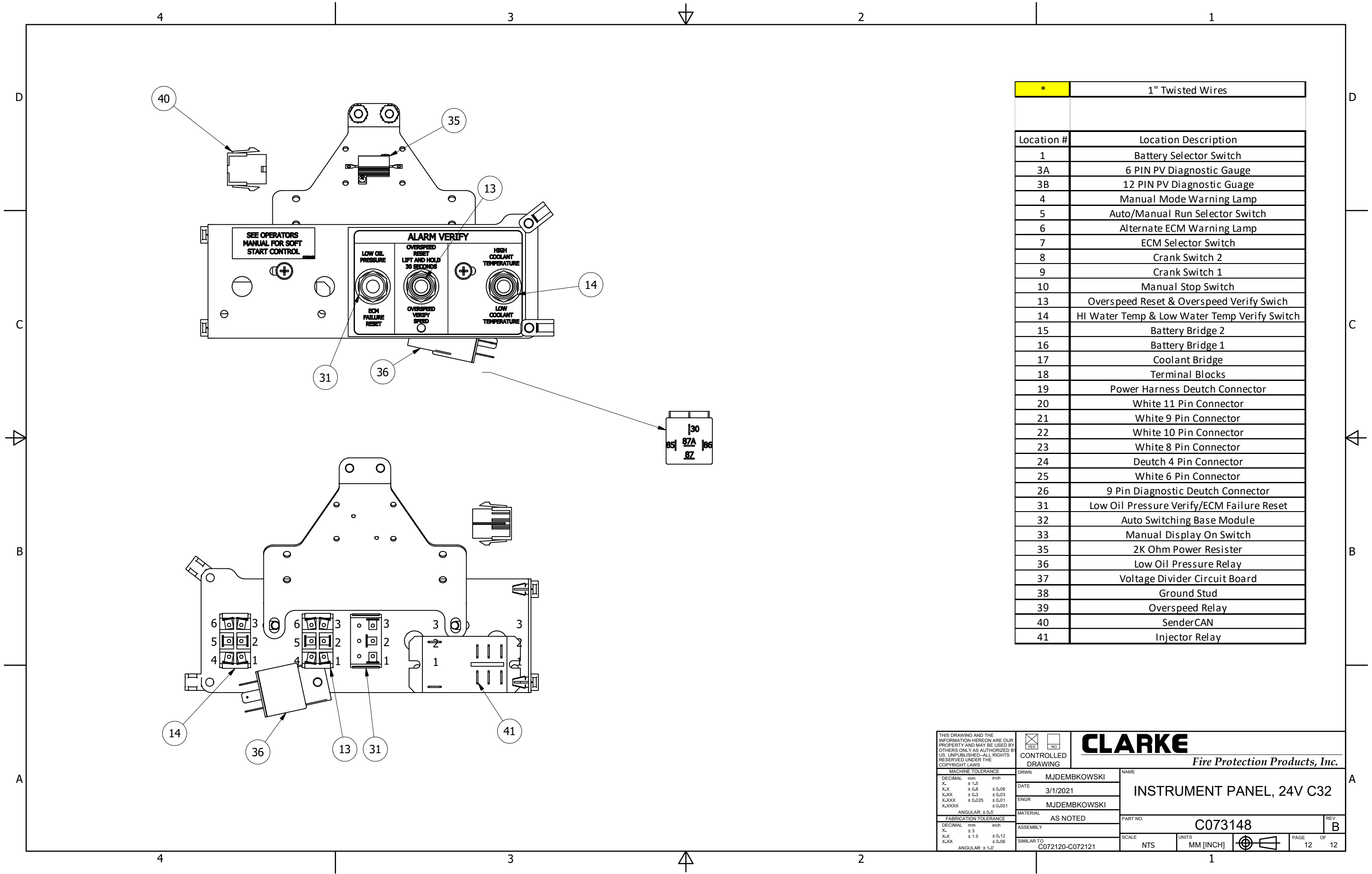
UNITS MM [INCH]

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REV B

CLARKE

Fire Protection Products, Inc.



*	1" Twisted Wires
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YES

NO

CONTROLLED DRAWING

CLARKE

Fire Protection Products, Inc.

MACHINE TOLERANCE

DECIMALmminchX. ± 1.5 ± 0.06 X.X ± 0.8 ± 0.03 X.XX ± 0.3 ± 0.01 X.XXX ± 0.025 ± 0.001 X.XXXX ± 0.01

ANGULAR: $\pm 0.5^\circ$

FABRICATION TOLERANCE

DECIMALmminchX. ± 3 ± 0.12 X.X ± 1.5 ± 0.06 X.XX ± 0.75 ± 0.03

ANGULAR: $\pm 1.0^\circ$

DRWN

DATE

ENGR

MATERIAL

ASSEMBLY

SIMILAR TO

MJDEMBKOWSKI

3/1/2021

MJDEMBKOWSKI

AS NOTED

C072120-C072121

NAME

PART NO.

SCALE

UNITS

MM [INCH]

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