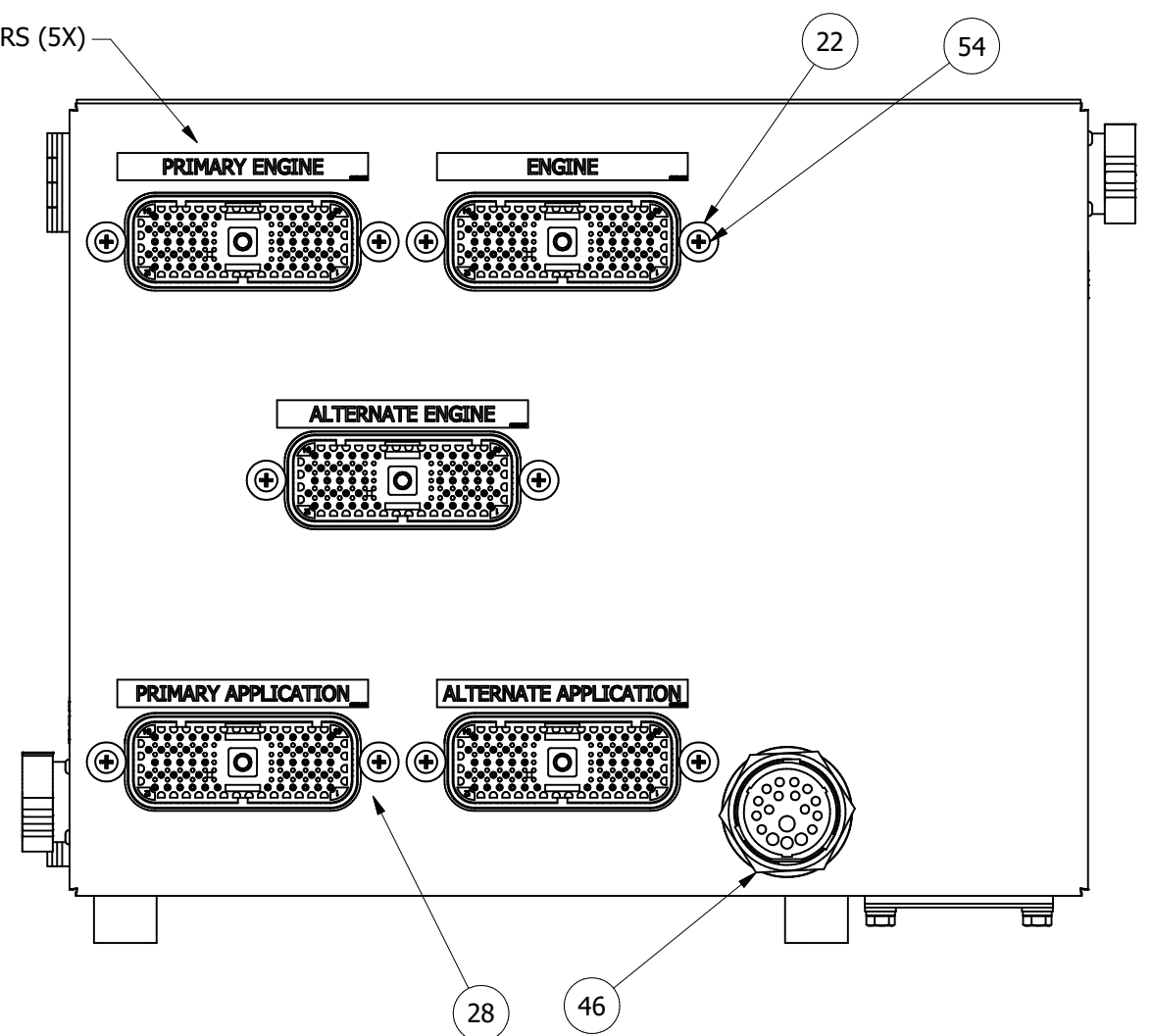
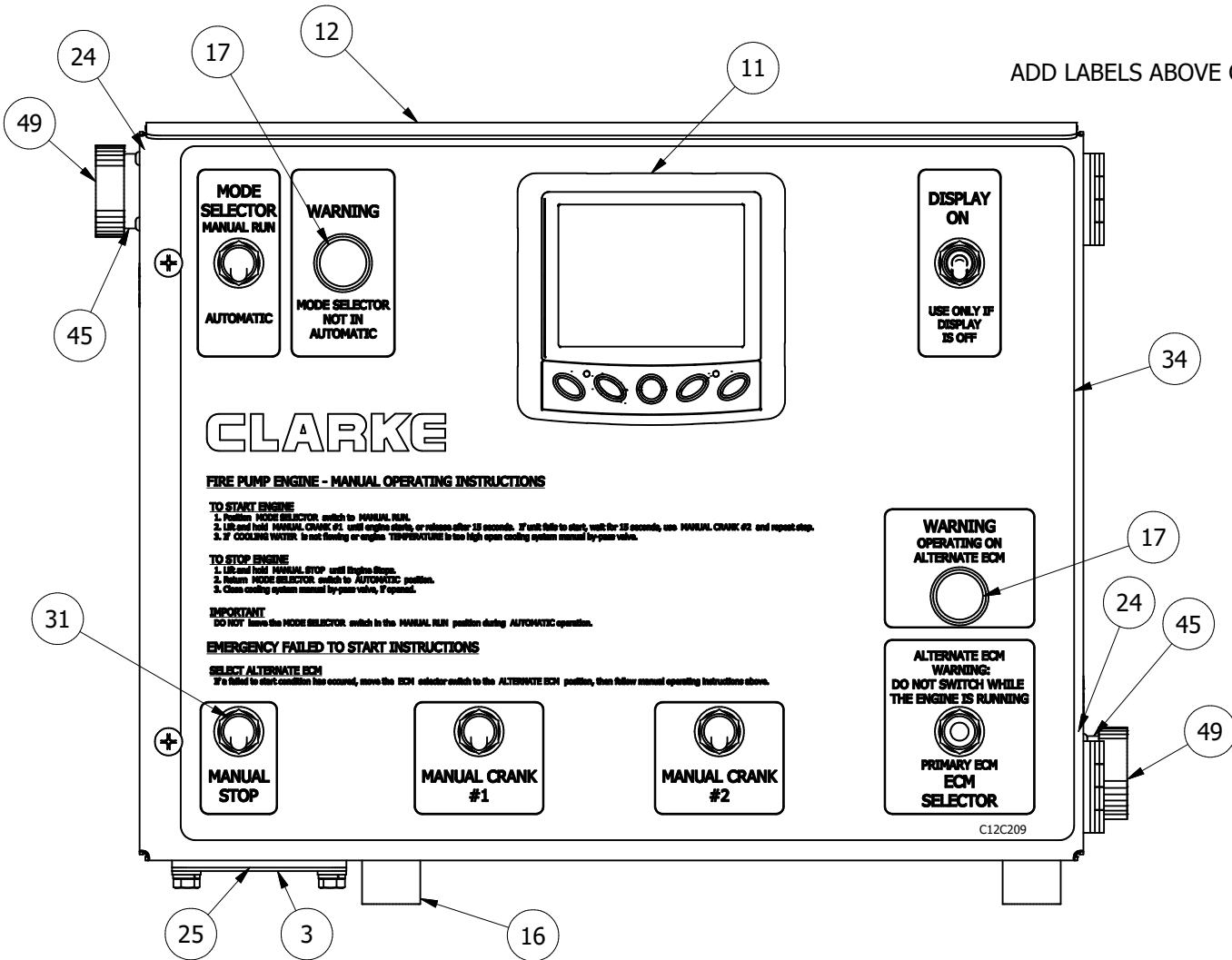


REV	DESCRIPTION	ECN#	DWN	APVD	DATE
A	ISSUED ENGINEERING DRAWING	6042	MJD	MJD	16MAY22



ITEM	CLARKE P/N	QTY	DESCRIPTION	ITEM	CLARKE P/N	QTY	DESCRIPTION
3	C071227	1	COVER, BOTTOM FACE	25	C126007	1	GASKET, GLAND PLATE
11	C072670	1	POWerview PV380	28	C126026	5	GASKET, 54 PIN CONNECTOR
12	C072735	1	ASSM, FABRICATED INSTRUMENT PANEL BOX T3 PV380	31	C12881	9	BOOT, TOGGLE SWITCH
15	HDP24-24-18PN	1	ELECTRICAL CONNECTOR	34	C12C209	1	OPERATING INSTRUCTION LABEL, TIER 3 INSTRUMENT PANEL - PV380
16	C07589	4	ISOLATOR	45	HD10-9-96P	2	9 PIN CONNECTOR
17	C07945	2	LAMP, PILOT, 24V	46	112263-90	1	NUT
20	C10438	1	BRACKET, HARNESS SUPPORT	48	112264	1	COILED LOCK WASHER
22	C125810	10	RUBBER CUP WASHER	49	HDC16-9	2	DUST CAP, GRAY
24	C126005	2	GASKET, DIAGNOSTIC CONNECTOR	54	---	10	BUTTON HEAD SCREW, #10-32 X 1"

NOTES:
1) ALL WIRE TO BE GXL

CONTROLLED DRAWING
THIS IS A REGISTERED PART WITH A THIRD PARTY AGENCY FOR USE ON A PRODUCT. NO SUBSTITUTIONS ARE ALLOWED. CONSULT ENGINEERING PRIOR TO AND REGARDING ANY CHANGE.

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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	± 0.01	± 0.0001

ANGULAR: ± 0.5°

FABRICATION TOLERANCE

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

ANGULAR: ± 1.0°

DRWN

DATE

ENGR

MATERIAL

ASSEMBLY

SIMILAR TO

MJDEMBKOWSKI

3/1/2021

MJDEMBKOWSKI

AS NOTED

C072120-C072121

NAME

PART NO.

SCALE

UNITS

FIG

PAGE

OF

INSTRUMENT PANEL, 24V C32

C073148

NTS

MM [INCH]

1

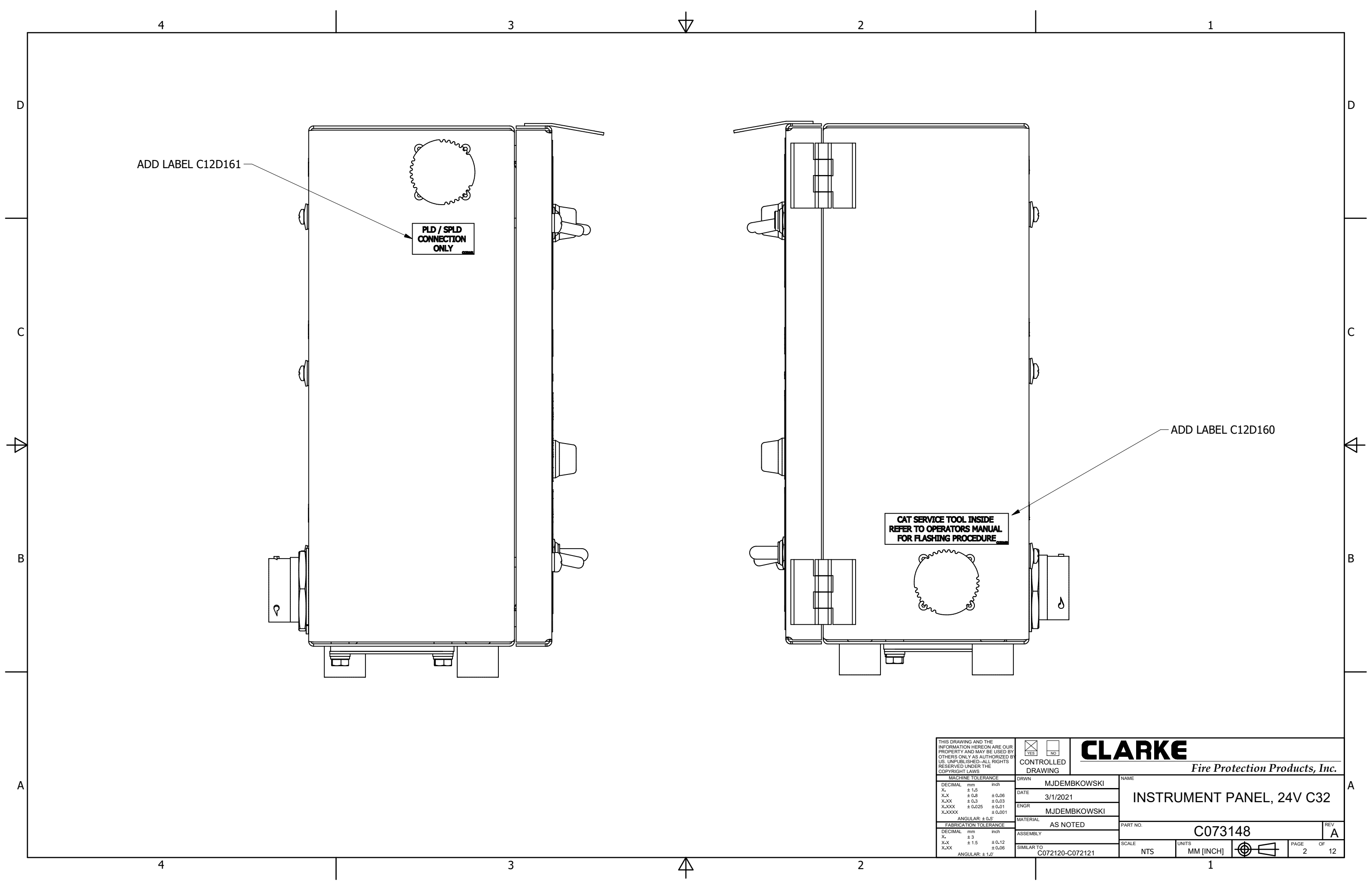
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REV

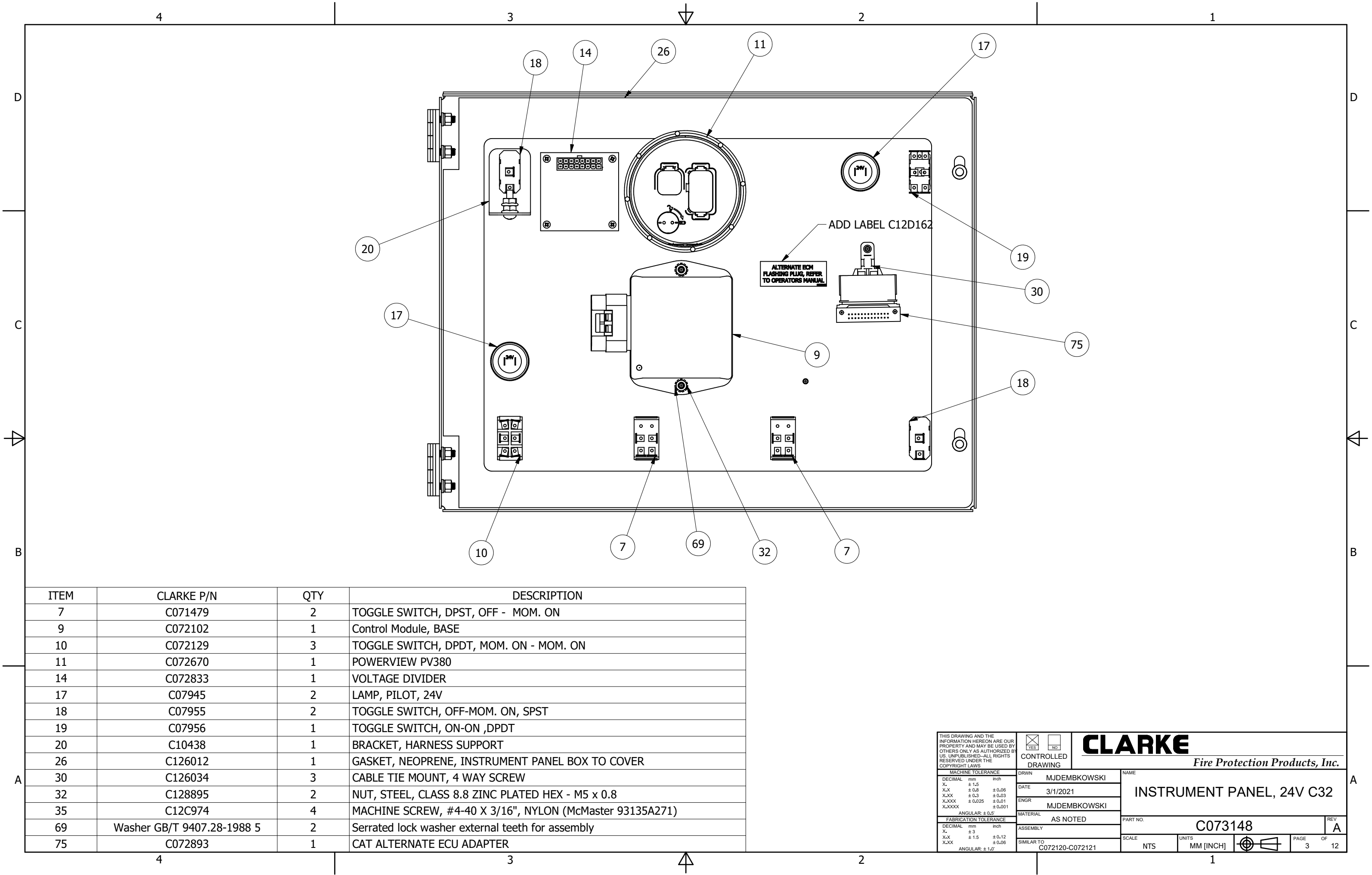
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CLARKE

Fire Protection Products, Inc.



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			CONTROLLED DRAWING				
MACHINE TOLERANCE			DRWN MJDEMBKOWSKI		NAME INSTRUMENT PANEL, 24V C32		
			DATE 3/1/2021				
DECIMAL mm inch			ENGR MJDEMBKOWSKI		PART NO. C073148		
X. ± 1.5 ± 0.06			MATERIAL AS NOTED				
X.XX ± 0.3 ± 0.03			ASSEMBLY		SCALE NTS UNITS MM [INCH]		
X.XXX ± 0.025 ± 0.01			SIMILAR TO C072120-C072121				
X.XXXX ± 0.001					PAGE 2 OF 12		
ANGULAR: ± 0.5°							
FABRICATION TOLERANCE							
DECIMAL mm inch							
X. ± 3 ± 0.12							
X.X ± 1.5 ± 0.06							
X.XX							
ANGULAR: ± 1.0°							



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

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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	± 0.01	± 0.0001
ANGULAR: ± 0.5°		

FABRICATION TOLERANCE		
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

DATE

ENGR

MATERIAL

ASSEMBLY

SIMILAR TO

MJDEMBKOWSKI

3/1/2021

MJDEMBKOWSKI

AS NOTED

C072120-C072121

NAME

PART NO.

SCALE

UNITS

MM [INCH]

NTS

MM [INCH]

3

12

OF

12

REV

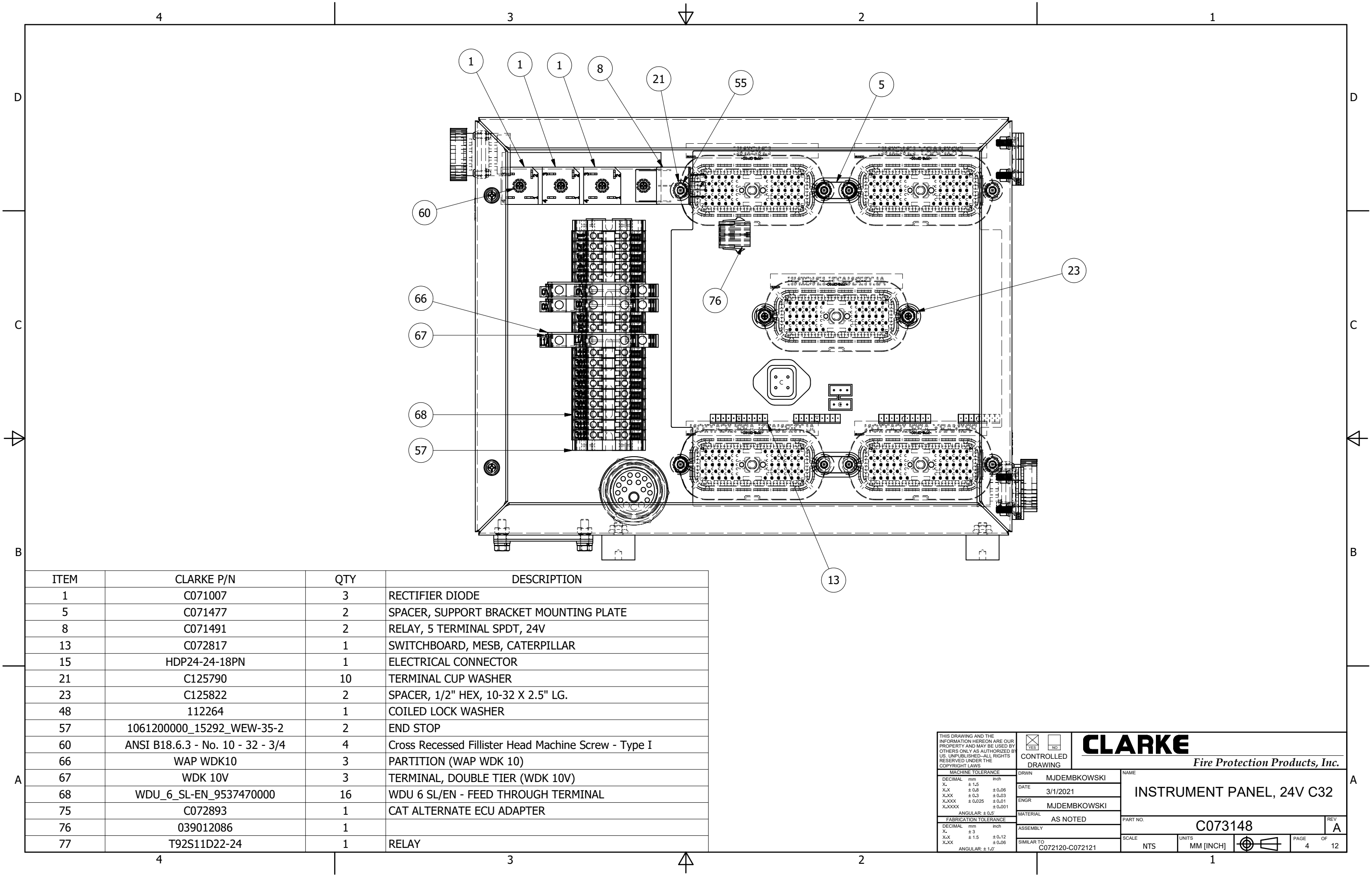
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CLARKE

Fire Protection Products, Inc.

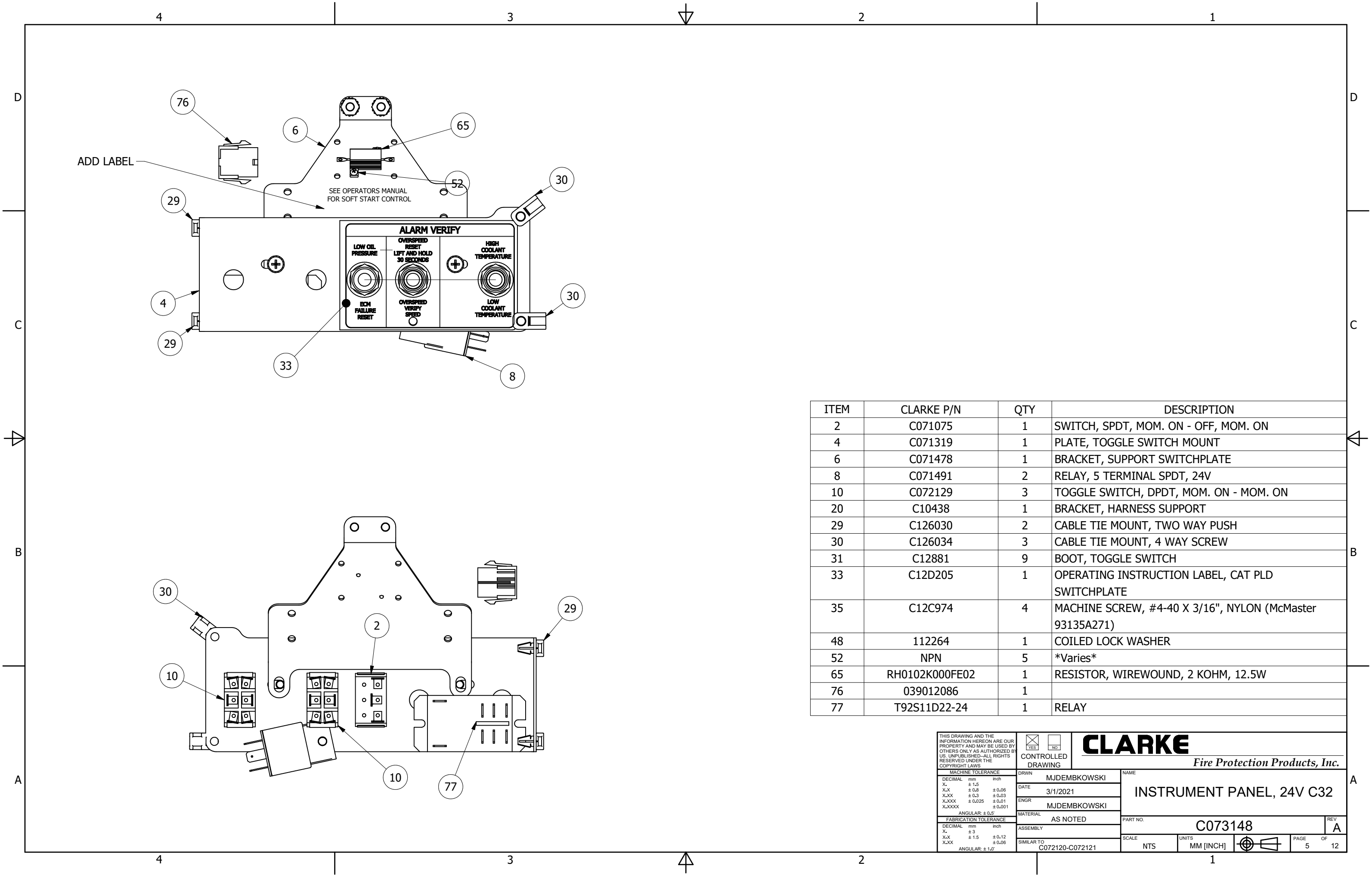
INSTRUMENT PANEL, 24V C32

C073148



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	HDP24-24-18PN	1	ELECTRICAL 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

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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		DRWN MJDEMBKOWSKI DATE 3/1/2021 ENGR MJDEMBKOWSKI MATERIAL AS NOTED	NAME INSTRUMENT PANEL, 24V C32	
FABRICATION TOLERANCE DECIMAL mm inch X. ± 3 X-X ± 1.5 ± 0.12 X.XX ± 0.06 ANGULAR: ± 1.0		ASSEMBLY SIMILAR TO C072120-C072121	PART NO. C073148	REV A
SCALE NTS		UNITS MM [INCH]	PAGE 4	OF 12



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

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

4				3				2				1			
Wire #	Wire Color	Length	Wire AWG	Start Location	Start Terminal	Start Connector	End Location	End Terminal	End Connector	Splice Detail	Location #	Location Description			
L-701	GREY	6	18	18 BLOCK 1	ULTRA SONIC WELD		17 POST 1	RED FEMALE SLIP SPADE			1	Battery Selector Switch			
L-701D	GREY	18	18	18 BLOCK 1	ULTRA SONIC WELD		25 PIN 1	60619-1 - AMP	1-480270-0 - AMP		2	Voltmeter Gauge			
K-702	BROWN	9	18	18 BLOCK 2	ULTRA SONIC WELD		SPLICE	(SPLICE AT DIODE)		15	3	PV Diagnostic Gauge			
K-702A	BROWN	4	18	18 BLOCK 2			SPLICE	(SPLICE AT DIODE)		15	3A	6 PIN PV Diagnostic Gauge			
K-702C	BROWN	8	18	25 PIN 2	60619-1 - AMP	1-480270-0 - AMP	SPLICE	(SPLICE AT DIODE)		15	3B	12 PIN PV Diagnostic Guage			
K-702D	BROWN	12	18	36 POST 85	RED FEMALE SLIP SPADE		SPLICE	(SPLICE AT DIODE)		15	4	Manual Mode Warning Lamp			
K-702E	BROWN	4	18	17 POST 3	BLUE FEMALE SLIP SPADE		SPLICE	(SPLICE AT DIODE)		15	5	Auto/Manual Run Selector Switch			
G-703B	BLUE	6	18	18 BLOCK 3	ULTRA SONIC WELD		39 POST 87	RED FEMALE SLIP SPADE			6	Alternate ECM Warning Lamp			
G-703C	BLUE	10	18	18 BLOCK 3			19 PIN 25	0460-202-16141 - TE	HDP24-24-29PE - TE		7	ECM Selector Switch			
C-704	ORANGE	18	18	18 BLOCK 4	ULTRA SONIC WELD		25 PIN 4	60619-1 - AMP	1-480270-0 - AMP	29	8	Crank Switch 2			
C-704A	ORANGE	21	18	18 BLOCK 4			36 POST 87a	RED FEMALE SLIP SPADE		29	9	Crank Switch 1			
G-705	BLUE	18	18	18 BLOCK 5	ULTRA SONIC WELD		25 PIN 5	60619-1 - AMP	1-480270-0 - AMP		10	Manual Stop Switch			
B-706A	RED	45	14	18 BLOCK 6-3	ULTRA SONIC WELD		9 MIDDLE RIGHT POST	90* YELLOW FEMALE SLIP SPADE		1	11	Throttle Bump - Enable Switch			
B-706D	RED	11.5	12	18 BLOCK 6-3			19 PIN 1	0460-204-12141 - TE	HDP24-24-29PE - TE	1	12	Throttle Bump - Up & Down Switch			
B-706B	RED	9	12	18 BLOCK 6-4	ULTRA SONIC WELD		16 POST 3	YELLOW FEMALE SLIP SPADE		16	13	Overspeed Reset & Overspeed Verify Swich			
B-706C	RED	11	12	18 BLOCK 6-4			15 POST 3	BLUE FEMALE SLIP SPADE		16	14	HI Water Temp & Low Water Temp Verify Switch			
A-708A	WHITE	41	14	18 BLOCK 8-3	ULTRA SONIC WELD		8 MIDDLE RIGHT POST	90* YELLOW FEMALE SLIP SPADE		2	15	Battery Bridge 2			
A-708D	WHITE	11	12	18 BLOCK 8-3			19 PIN 2	0460-204-12141 - TE	HDP24-24-29PE - TE	2	16	Battery Bridge 1			
A-708B	WHITE	11	12	18 BLOCK 8-4	ULTRA SONIC WELD		16 POST 1	YELLOW FEMALE SLIP SPADE		17	17	Coolant Bridge			
A-708C	WHITE	12	12	18 BLOCK 8-4			15 POST 1	YELLOW FEMALE SLIP SPADE		17	18	Terminal Blocks			
D-709A	YELLOW	44	16	18 BLOCK 9	ULTRA SONIC WELD		9 BOTTOM RIGHT POST	90* BLUE FEMALE SLIP SPADE		18	19	Power Harness Deutch Connector			
D-709B	YELLOW	10	16	18 BLOCK 9			19 PIN 5	0460-215-16141 - TE	HDP24-24-29PE - TE	18	20	White 11 Pin Connector			
E-710A	GREEN	40	16	18 BLOCK 10	ULTRA SONIC WELD		8 BOTTOM RIGHT POST	90* BLUE FEMALE SLIP SPADE		19	21	White 9 Pin Connector			
E-710B	GREEN	9.5	16	18 BLOCK 10			19 PIN 16	0460-215-16141 - TE	HDP24-24-29PE - TE	19	22	White 10 Pin Connector			
J-711A	BLACK	10	12	18 BLOCK 11A-3	ULTRA SONIC WELD		19 PIN 3	0460-204-12141 - TE	HDP24-24-29PE - TE	20	23	White 8 Pin Connector			
J-711D	BLACK	15.5	18	18 BLOCK 11A-3			26 PIN B	0460-215-16141 - TE	HD10-9-96P - TE	20	24	Deutch 4 Pin Connector			
J-711E	BLACK	11	18	18 BLOCK 11A-3			17 POST 4	BLUE FEMALE SLIP SPADE		20	25	White 6 Pin Connector			
J-711B	BLACK	13	12	18 BLOCK 11A-4	ULTRA SONIC WELD		24 PIN 3	0462-203-12141 - TE	DT06-4S - TE	21	26	9 Pin Diagnostic Deutch Connector			
J-711C	BLACK	13	12	18 BLOCK 11A-4			24 PIN 4	0462-203-12141 - TE	DT06-4S - TE	21	27	SCB - 6 Pin Connector			
J-711F	BLACK	9	12	18 BLOCK 11B	ULTRA SONIC WELD		19 PIN 4	0460-204-12141 - TE	HDP24-24-29PE - TE	20	28	SCB - 4 Pin Connector			
E-474E	GREEN	14	18	18 BLOCK 302	ULTRA SONIC WELD		25 PIN 6	60619-1 - AMP	1-480270-0 - AMP		29	9 Pin Deutch Connector			
B-305	RED	36	18	18 BLOCK 305	ULTRA SONIC WELD		38 PIN 2	0462-201-16141 - TE	DT06-12S - TE		30	Engine Run Signal Diode Bridge			
G-312	BLUE	13	18	18 BLOCK 312	ULTRA SONIC WELD		22 PIN 7	1318912-1 - TE	1-1123722-0 - TE		31	Low Oil Pressure Verify/ECM Failure Reset			
G-312A	BLUE	19	18	18 BLOCK 312	ULTRA SONIC WELD		14 TOP LEFT POST	90* RED FEMALE SLIP SPADE			32	Auto Switching Base Module			
K-702B	BROWN	8	18	19 PIN 13	0460-202-16141 - TE	HDP24-24-29PE - TE	SPLICE	(SPLICE AT DIODE)		15	33	Manual Display On Switch			
C-310	ORANGE	7	18	19 PIN 14	0460-202-16141 - TE	HDP24-24-29PE - TE	18 BLOCK 310	ULTRA SONIC WELD			34	Soft Start Switch			
M-311	PURPLE	7	18	19 PIN 15	0460-202-16141 - TE	HDP24-24-29PE - TE	18 BLOCK 311	ULTRA SONIC WELD			35	2K Ohm Rister			
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	36	Low Oil Pressure Relay			
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	37	Voltage Divider Circuit Board			
020D	SHIELD	34	wire	20 PIN 3	1318912-1 - TE	1-1123722-1 - TE	Cover Wie			25	38	Ground Stud			
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	39	Overspeed Relay			
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	40	SenderCAN			
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	41	Injector Relay			
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	
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DECIMALmminchX.±1.5±0.06X.XX±0.8±0.03X.XXX±0.3±0.03X.XXXX±0.025±0.01X.XXXXX±0.001

ANGULAR: ±0.5°

FABRICATION TOLERANCE

DECIMALmminchX.±3±1.5±0.12X-X±1.5±0.12X.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]

PAGE 6 OF 12

CLARKE

Fire Protection Products, Inc.

4

3

2

1

D

D

C

C



B

B

A

A

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	HD10-9-96P - TE	40 PIN 5	39000062 - Molex	39-01-2086 - Molex	
C-226D	ORANGE	14	18	19 PIN 22	0460-202-16141 - TE	HD10-9-96P - TE	40 PIN 6	39000062 - Molex	39-01-2086 - Molex	
C-221	RED	16	18	19 PIN 17	0460-202-16141 - TE	HD10-9-96P - TE	23 PIN 1	YELLOW FEMALE SLIP SPADE		27
C-385	ORANGE	9	18	39 POST 85	BLUE FEMALE SLIP SPADE		15 POST 2	YELLOW FEMALE SLIP SPADE		27
J-223	BLACK	7	18	29 PIN B	0460-202-16141 - TE	HD10-9-96P - TE	17 PIN 4	BLUE FEMALE SLIP SPADE		20
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	0460-215-16141 - TE	HDP24-24-29PE - TE	30
I-242	PINK	25	18	41 POST 3	90* RED FEMALE SLIP SPADE		19 PIN 13	0460-202-16141 - TE	HDP24-24-29PE - TE	
C-243	ORANGE	26	18	41 POST 2	90* RED FEMALE SLIP SPADE		19 PIN 15	0460-202-16141 - TE	HDP24-24-29PE - TE	
B-244	RED	25	18	41 POST 4	90* RED FEMALE SLIP SPADE		19 PIN 11	0460-202-16141 - TE	HDP24-24-29PE - TE	
L-246	GRAY	25.5	18	41 POST 7	90* RED FEMALE SLIP SPADE		19 PIN 14	0460-202-16141 - TE	HDP24-24-29PE - TE	
D-247	YELLOW	26	18	41 POST 6	90* RED FEMALE SLIP SPADE		19 PIN 16	0460-202-16141 - TE	HDP24-24-29PE - TE	
A-248	WHITE	25.5	18	41 POST 8	90* RED FEMALE SLIP SPADE		19 PIN 12	0460-202-16141 - TE	HDP24-24-29PE - TE	

4

3

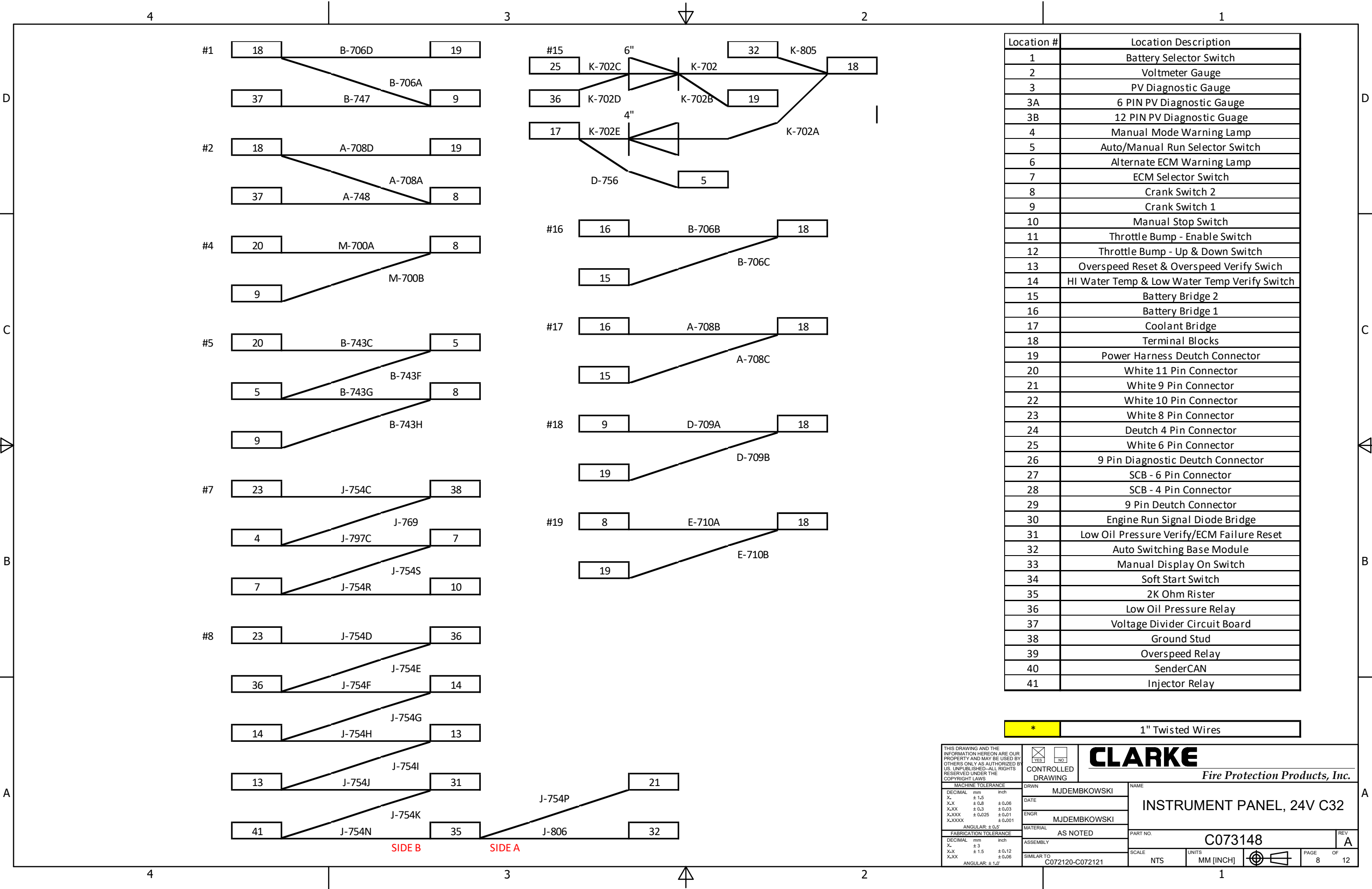
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Location #	Location Description
1	Battery Selector Switch
2	Voltmeter Gauge
3	PV Diagnostic Gauge
3A	6 PIN PV Diagnostic Gauge
3B	12 PIN PV Diagnostic Guage
4	Manual Mode Warning Lamp
5	Auto/Manual Run Selector Switch
6	Alternate ECM Warning Lamp
7	ECM Selector Switch
8	Crank Switch 2
9	Crank Switch 1
10	Manual Stop Switch
11	Throttle Bump - Enable Switch
12	Throttle Bump - Up & Down 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
27	SCB - 6 Pin Connector
28	SCB - 4 Pin Connector
29	9 Pin Deutch Connector
30	Engine Run Signal Diode Bridge
31	Low Oil Pressure Verify/ECM Failure Reset
32	Auto Switching Base Module
33	Manual Display On Switch
34	Soft Start Switch
35	2K Ohm Rister
36	Low Oil Pressure Relay
37	Voltage Divider Circuit Board
38	Ground Stud
39	Overspeed Relay
40	SenderCAN
41	Injector Relay

*	1" Twisted Wires
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MACHINE TOLERANCE DECIMAL mm inch X. ±1.5 ±0.06 X.X ±0.8 ±0.06 X.XX ±0.3 ±0.03 X.XXX ±0.025 ±0.01 X.XXXX ±0.001 ±0.001		DRWN MJDEMBKOWSKI DATE ENGR MJDEMBKOWSKI		NAME INSTRUMENT PANEL, 24V C32	
FABRICATION TOLERANCE DECIMAL mm inch X. ±3 X.X ±1.5 ±0.12 X.XX ±0.6 ±0.06 ANGULAR: ±1.0°		MATERIAL AS NOTED ASSEMBLY		PART NO. C073148 REV A	
SIMILAR TO C072120-C072121		SCALE NTS		UNITS MM [INCH]	PAGE 7 OF 12



Location #	Location Description
1	Battery Selector Switch
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37	Voltage Divider Circuit Board
38	Ground Stud
39	Overspeed Relay
40	SenderCAN
41	Injector Relay

*	1" Twisted Wires
---	------------------

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YES

NO

CONTROLLED DRAWING

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

ANGULAR: ± 0.5°

ANGULAR: ± 1.0°

DECIMAL

mm

inch

X.

± 3

± 0.12

X-X

± 1.5

± 0.06

X.XX

± 0.8

± 0.03

ANGULAR: ± 0.5°

ANGULAR: ± 1.0°

DRWN

DATE

ENGR

MATERIAL

ASSEMBLY

SIMILAR TO

MJDEMBKOWSKI

MJDEMBKOWSKI

AS NOTED

C072120-C072121

NAME

PART NO.

SCALE

UNITS

PAGE

OF

Fire Protection Products, Inc.

INSTRUMENT PANEL, 24V C32

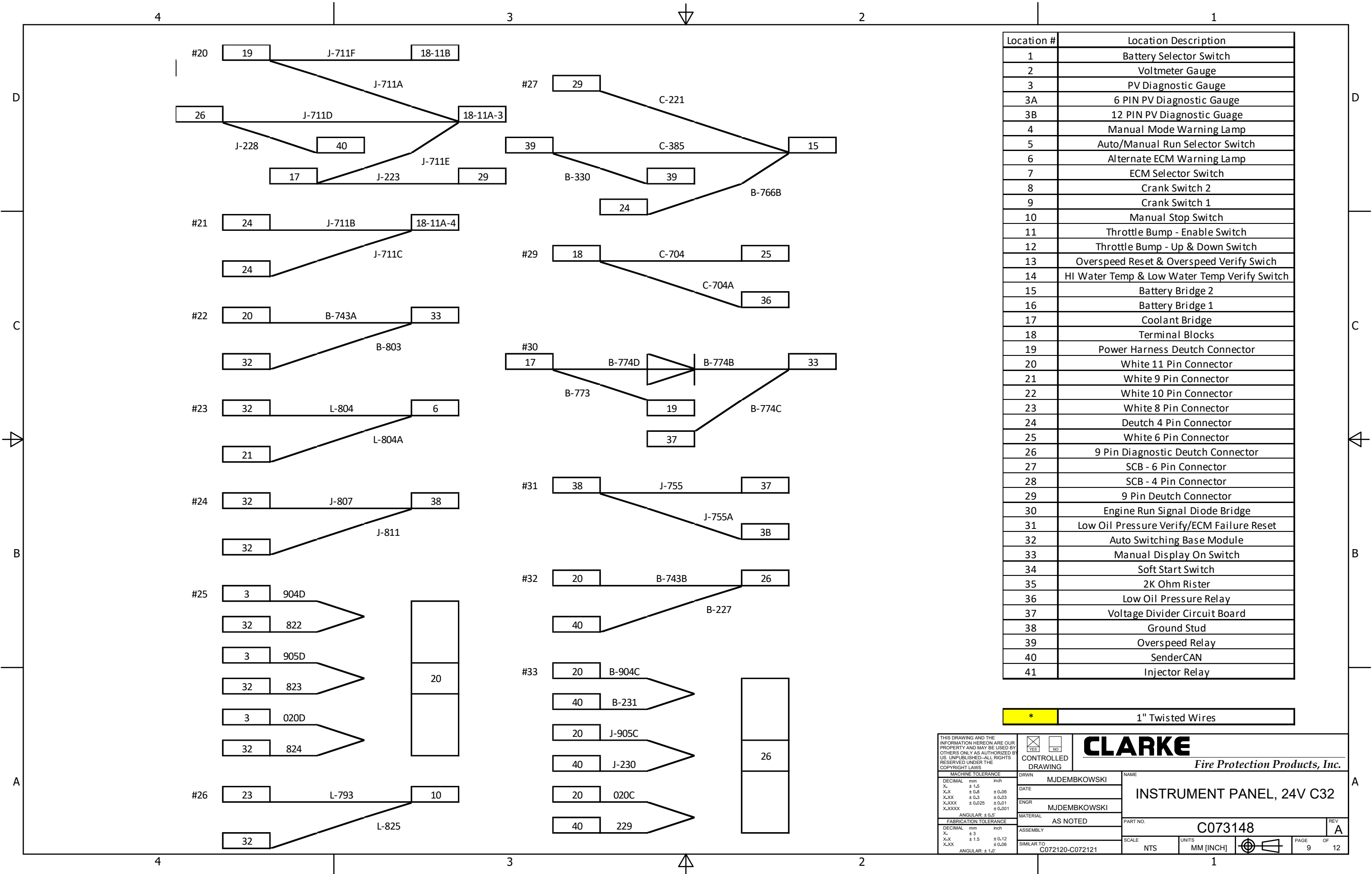
C073148

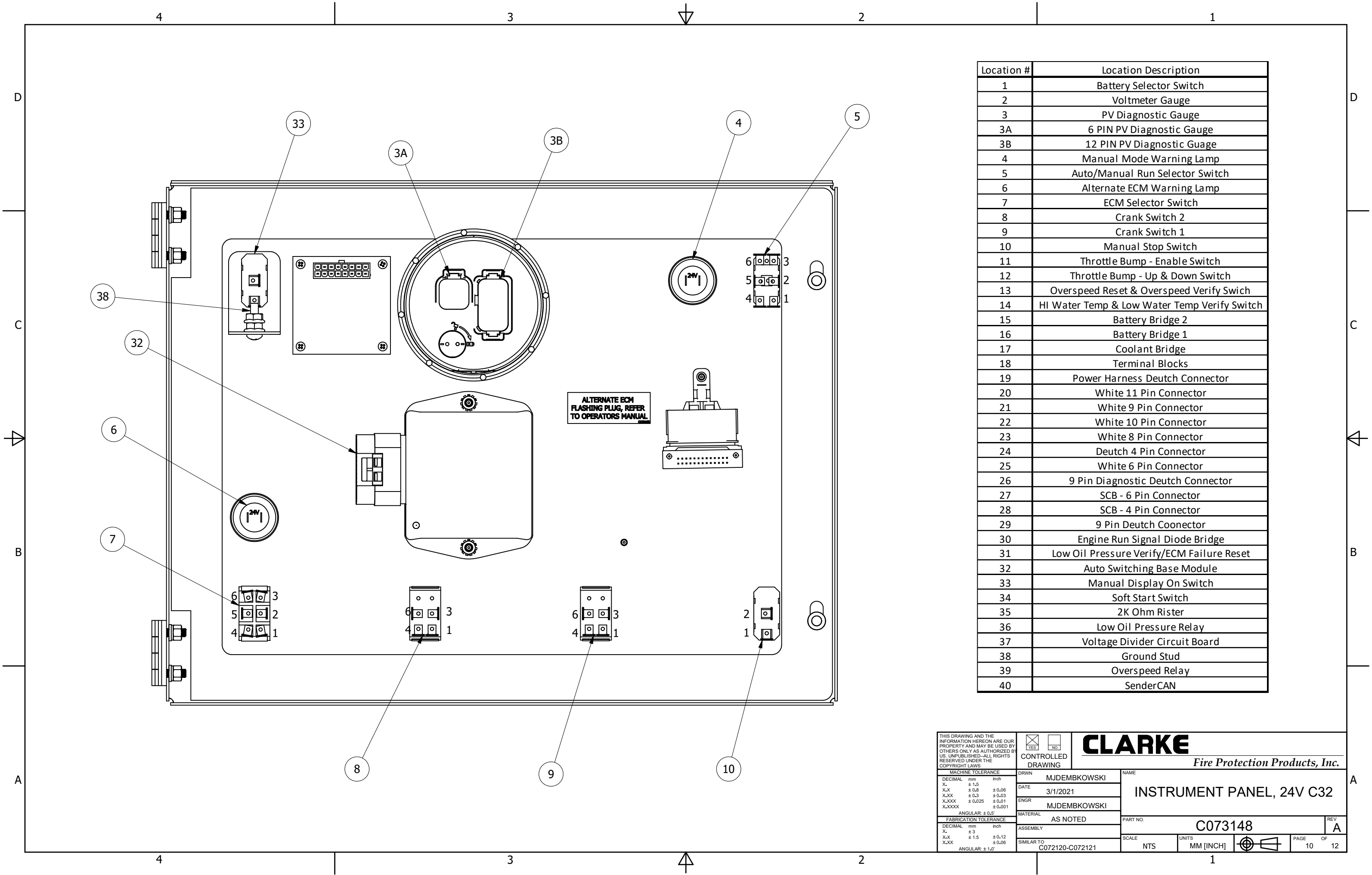
REV

A

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12





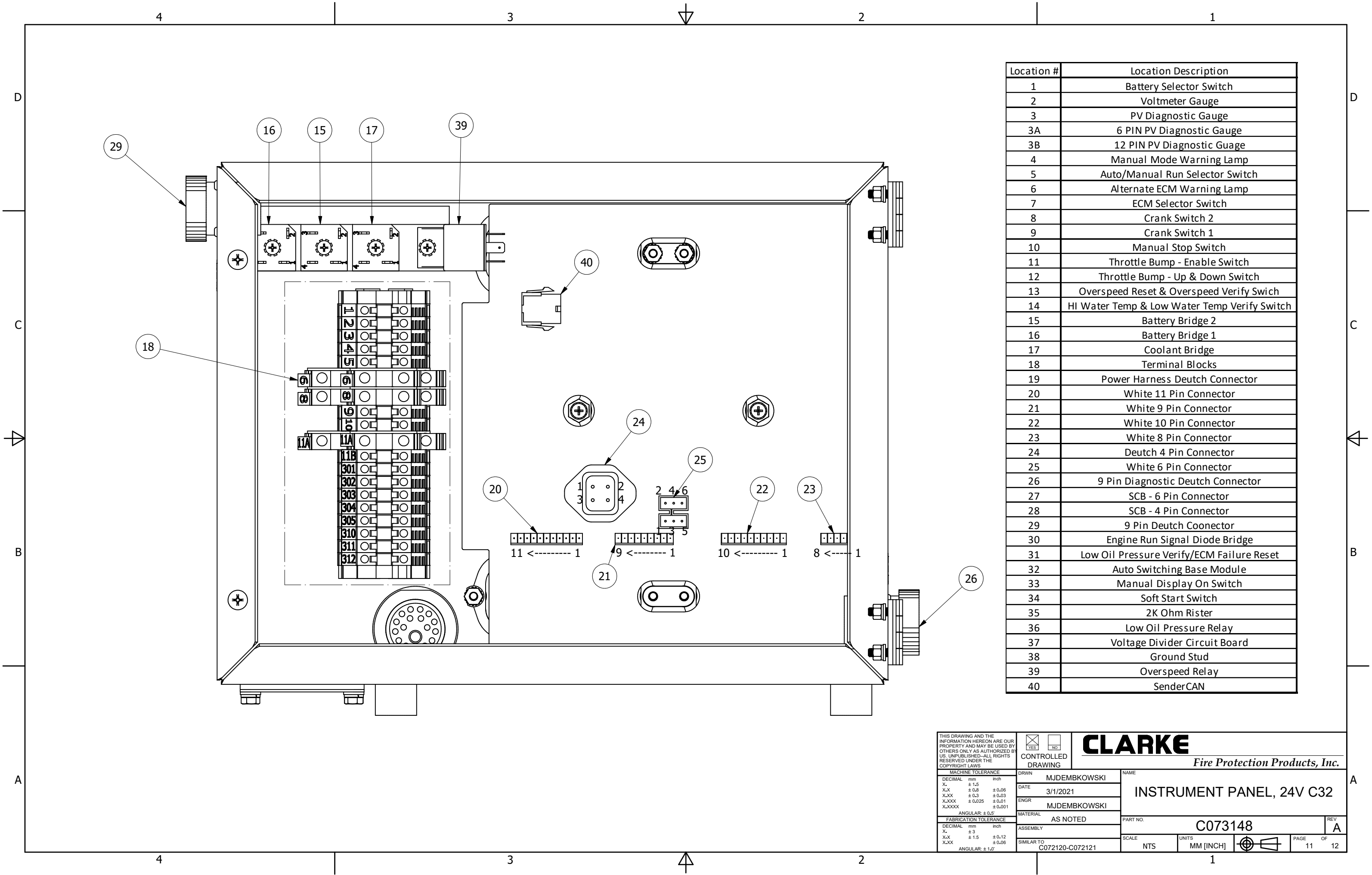
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☒ YES ☐ NO
CONTROLLED DRAWING

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Fire Protection Products, Inc.

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 A



Location #	Location Description
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34	Soft Start Switch
35	2K Ohm Rister
36	Low Oil Pressure Relay
37	Voltage Divider Circuit Board
38	Ground Stud
39	Overspeed Relay
40	SenderCAN

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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	± 0.01	± 0.0001
ANGULAR: ± 0.5°		
FABRICATION TOLERANCE		
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

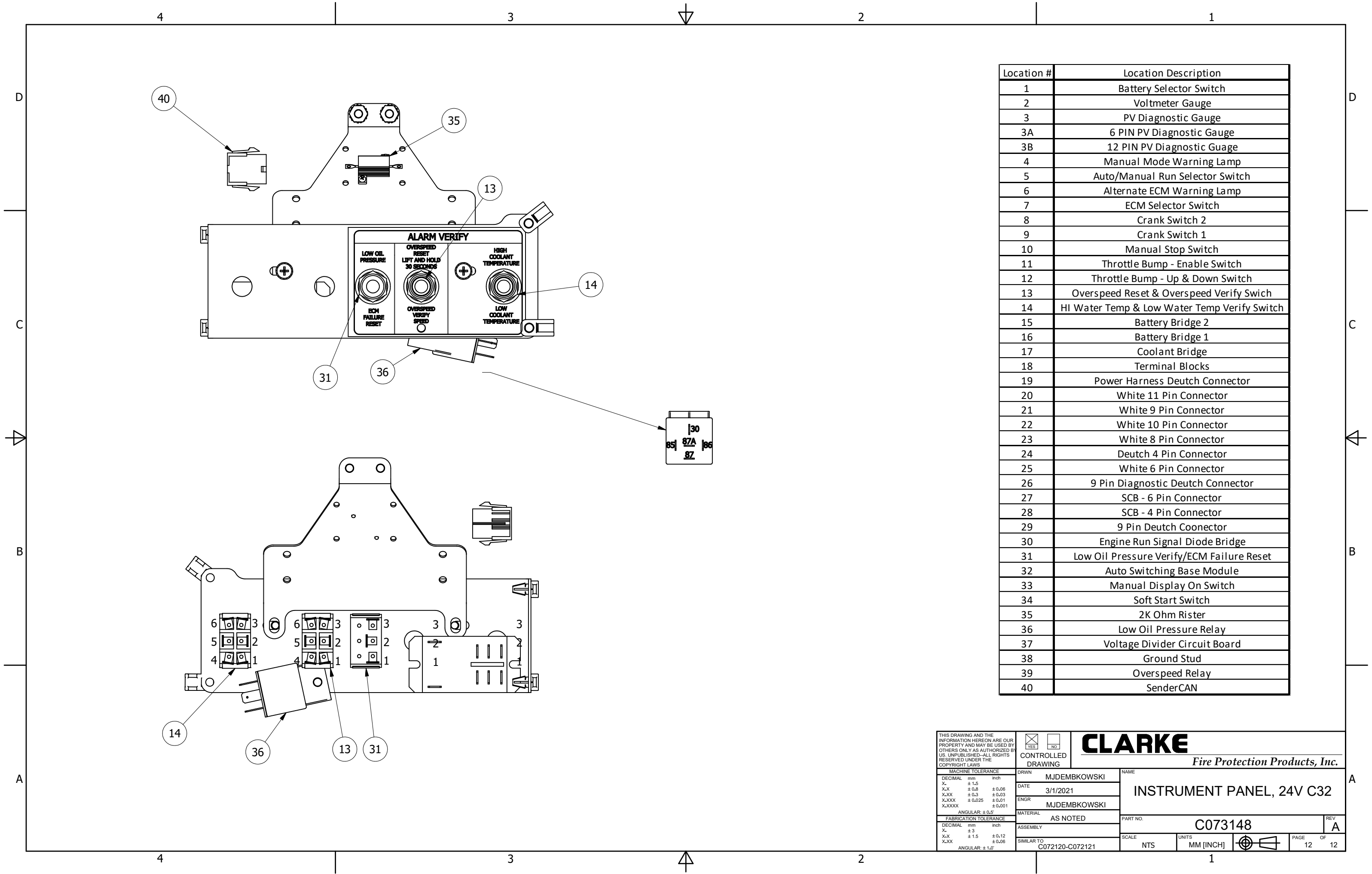
UNITS MM [INCH]

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REV A

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Fire Protection Products, Inc.



Location #	Location Description
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39	Overspeed Relay
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YES

NO

CONTROLLED DRAWING

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°

DRWN

DATE

ENGR

MJDEMBKOWSKI

3/1/2021

MJDEMBKOWSKI

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REV

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