

N1J Series Panel Enclosure

NEMA 1

Commercial Enclosures



**Inner
Panel
Included**



Application

- Designed for indoor use to house controls, instruments and components not requiring oil-tight or dust-tight protection.

Standards

- UL-50 Type 1
- cUL-Type 1
- **Complies with**
 - NEMA Type 1
 - IEC 60529, IP20

Construction

- Formed and spot welded from 16 gauge steel.
- Formed steel covers close by use of slotted quarter turn latch.
- Full swing door using butt hinges.
- Through holes in back for wall mounting.
- Bonding stud is provided on the door and a grounding stud is provided on the box.
- Includes 14 gauge steel inner panel.

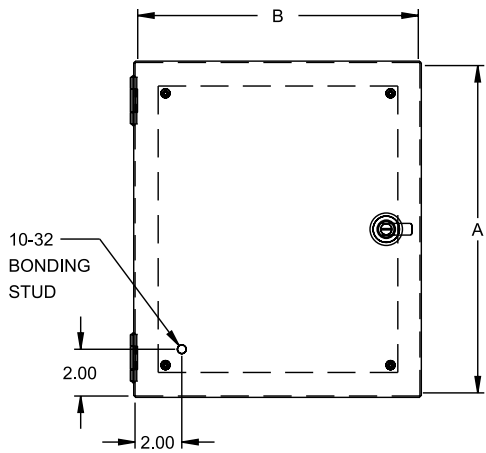
Finish

- Enclosure and cover are finished in ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating

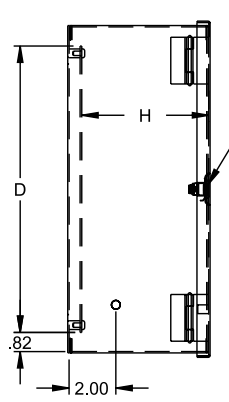
Panel Enclosures

N1J Series Panel Enclosure

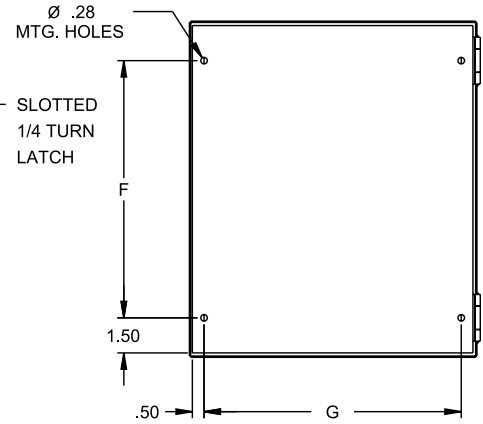
NEMA 1



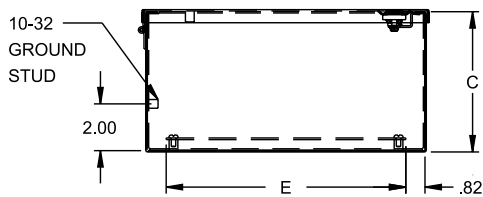
Front View



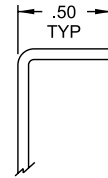
Side View



Back View



Bottom View



**Body Flange
Detail**

Commercial Enclosures

Part No.	Overall Dimensions			Panel Size		Centers			Ship Wt. lbs.
	A	B	C	D	E	F	G	H	
N1J664	6	6	4	4.25	4.25	3.00	5.00	3.43	5
N1J864	8	6	4	6.25	4.25	5.00	5.00	3.43	6
N1J884	8	8	4	6.25	6.25	5.00	7.00	3.43	7
N1J1084	10	8	4	8.25	6.25	7.00	7.00	3.43	8
N1J10104	10	10	4	8.25	8.25	7.00	9.00	3.43	9
N1J12104	12	10	4	10.25	8.25	9.00	9.00	3.43	11
N1J12124	12	12	4	10.25	10.25	9.00	11.00	3.43	13
N1J14124	14	12	4	12.25	10.25	11.00	11.00	3.43	14
N1J886	8	8	6	6.25	6.25	5.00	7.00	5.43	7
N1J1086	10	8	6	8.25	6.25	7.00	7.00	5.43	10
N1J10106	10	10	6	8.25	8.25	7.00	9.00	5.43	11
N1J12106	12	10	6	10.25	8.25	9.00	9.00	5.43	12
N1J12126	12	12	6	10.25	10.25	9.00	11.00	5.43	15
N1J14126	14	12	6	12.25	10.25	11.00	11.00	5.43	16
N1J16126	16	12	6	14.25	10.25	13.00	11.00	5.43	16
N1J20126	20	12	6	18.25	10.25	17.00	11.00	5.43	22
N1J12128	12	12	8	10.25	10.25	9.00	11.00	7.43	17
N1J14128	14	12	8	12.25	10.25	11.00	11.00	7.43	18

Panel Enclosures

N1A Series Panel Enclosure

Non-Ventilated - NEMA 1



**Inner
Panel
Included**



Commercial Enclosures

Application

- Designed for indoor use to house controls, instruments and components not requiring oil-tight or dust-tight protection.

Standards

- UL 50 Type 1 on models marked¹
- CSA Type 1
- **Complies with**
 - NEMA Type 1
 - IEC 60529, IP20

Construction

- Enclosure is formed and spot welded from 14 gauge steel.
- Removable 12 or 14 gauge inner panel is mounted in the rear of the enclosure on collar studs.
- Removable door is mounted on slip hinges.
- Door is fastened with a slotted quarter turn latch; doors 30" and higher are provided with two latches.
- A bonding stud is provided on the door and a grounding stud is provided in the box.
- Mounting holes are provided in the rear of the enclosure.

Finish

- Enclosure and door are finished in ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating.

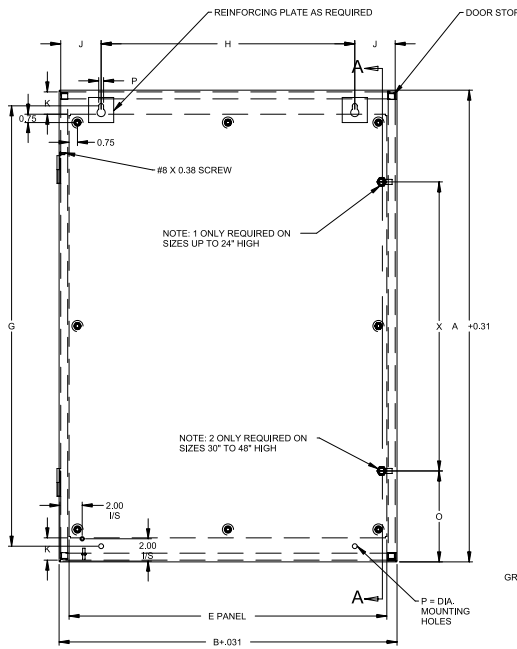
Accessories

- Additional inner panels...*see page 435*
- Lock kit for NEMA 1 enclosures (Part No. **1427LKN1**)...*see page 428*
- Louvered ventilating plates
...*see page 450*
- Window kits...*see page 444*
- Padlock Adaptor...*see page 432*

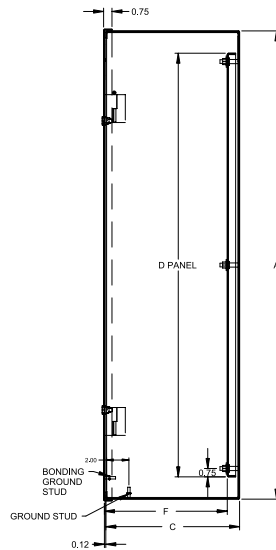
Panel Enclosures

N1A Series Panel Enclosure

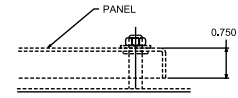
Non-Ventilated - NEMA 1



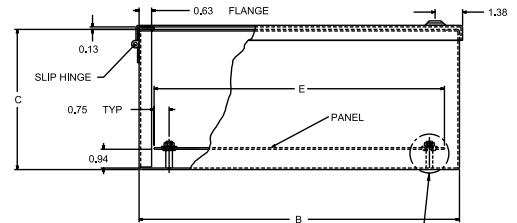
Front View



Side View



Detail A
Typ. for N1A423012,
N1A423612
and N1A483612



Bottom View

SEE DETAIL A
FOR LARGER
PANEL
EXCEPTIONS

When A=	X=
30	18.00
36	22.00
42	26.00
48	30.00

Part No.	Dimensions			Panel Size		Panel Gauge	No. of Studs	Mounting Dimensions					Panel Clearance			Ship Wt. lbs
	A	B	C	D	E			G	H	J	Q	P	F	K	O	
N1A16127 ^{1,2}	16	12	7	13	10.50	14	4	13.88	7.00	2.50	1.06	0.31	6.04	1.5	—	25
N1A16167 ^{1,2}	16	16	7	13	14.50	14	4	13.88	11.00	2.50	1.06	0.31	6.04	1.5	—	30
N1A16207 ^{1,2}	16	20	7	13	18.50	14	4	13.88	15.00	2.50	1.06	0.31	6.04	1.5	—	36
N1A20167 ^{1,2}	20	16	7	17	14.50	14	4	17.88	11.00	2.50	1.06	0.31	6.04	1.5	—	37
N1A20207 ^{1,2}	20	20	7	17	18.50	14	4	17.88	15.00	2.50	1.06	0.31	6.04	1.5	—	43
N1A24167 ^{1,2}	24	16	7	21	14.50	14	4	21.88	11.00	2.50	1.06	0.31	6.04	1.5	—	43
N1A24207 ^{1,2}	24	20	7	21	18.50	14	4	21.88	15.00	2.50	1.06	0.31	6.04	1.5	—	51
N1A24247 ^{1,2}	24	24	7	21	22.50	12	4	21.88	19.00	2.50	1.06	0.31	6.01	1.5	—	67
N1A30207 ^{1,2}	30	20	7	26	18.50	12	6	27.50	12.75	3.63	1.25	0.44	6.01	2.0	6.16	67
N1A30247 ^{1,2}	30	24	7	26	22.50	12	6	27.50	16.75	3.63	1.25	0.44	6.01	2.0	6.16	80
N1A36247 ^{1,2}	36	24	7	32	22.50	12	6	33.50	16.75	3.63	1.25	0.44	6.01	2.0	7.16	94
N1A36307 ²	36	30	7	32	28.50	12	8	33.50	22.75	3.63	1.25	0.44	6.01	2.0	7.16	114
N1A16129 ^{1,2}	16	12	9	13	10.50	14	4	13.88	7.00	2.50	1.06	0.31	8.04	1.5	—	27
N1A20169 ^{1,2}	20	16	9	17	14.50	14	4	17.88	11.00	2.50	1.06	0.31	8.04	1.5	—	31
N1A20209 ^{1,2}	20	20	9	17	18.50	14	4	17.88	15.00	2.50	1.06	0.31	8.04	1.5	—	47
N1A20249 ^{1,2}	20	24	9	17	22.50	14	4	17.88	19.00	2.50	1.06	0.31	8.04	1.5	—	55
N1A24209 ^{1,2}	24	20	9	21	18.50	14	4	21.88	15.00	2.50	1.06	0.31	8.04	1.5	—	55
N1A24249 ^{1,2}	24	24	9	21	22.50	12	4	21.88	19.00	2.50	1.06	0.31	8.01	1.5	—	125
N1A30209 ^{1,2}	30	20	9	26	18.50	12	6	27.50	12.75	3.63	1.25	0.44	8.01	2.0	6.16	72
N1A30249 ^{1,2}	30	24	9	26	22.50	12	6	27.50	16.75	3.63	1.25	0.44	8.01	2.0	6.16	85
N1A30309 ²	30	30	9	26	28.50	12	8	27.50	22.75	3.63	1.25	0.44	8.01	2.0	6.16	102
N1A36249 ^{1,2}	36	24	9	32	22.50	12	6	33.50	16.75	3.63	1.25	0.44	8.01	2.0	7.16	107
N1A36309 ²	36	30	9	32	28.50	12	8	33.50	22.75	3.63	1.25	0.44	8.01	2.0	7.16	120
N1A42249 ^{1,2}	42	24	9	38	22.50	12	6	39.50	16.75	3.63	1.25	0.44	8.01	2.0	8.16	111
N1A242012 ^{1,2}	24	20	12	21	18.50	14	4	21.88	15.00	2.50	1.06	0.31	11.04	1.5	—	61
N1A242412 ^{1,2}	24	24	12	21	22.50	12	4	21.88	19.00	2.50	1.06	0.31	11.01	1.5	—	132
N1A302412 ^{1,2}	30	24	12	26	22.50	12	6	27.50	16.75	3.63	1.25	0.44	11.01	2.0	6.16	94
N1A363012 ²	36	30	12	32	28.50	12	8	33.50	22.75	3.63	1.25	0.44	11.01	2.0	7.16	129
N1A423012	42	30	12	38	28.50	12	8	39.50	22.75	3.63	1.25	0.44	11.01	2.0	8.16	144
N1A423612	42	36	12	38	34.50	12	8	39.50	28.75	3.63	1.25	0.44	11.01	2.0	8.16	169
N1A483612	48	36	12	44	34.50	12	8	45.50	28.75	3.63	1.25	0.44	11.01	2.0	9.16	197

¹ UL 50 listed Type 1

² Flat Panel

1420 Series Panel Enclosure

Non-Ventilated - NEMA 1

Commercial Enclosures



**Inner
Panel
Included**



Application

- Designed for indoor use to house controls, instruments and components which do not require oil-tight or dust-tight protection.

Standards

- UL 508 Type 1 on models marked¹
- CSA Type 1
- **Complies with**
 - NEMA Type 1
 - IEC 60529, IP20

Construction

- Enclosure is formed and spot welded from 14 gauge steel.
- Removable 12 gauge inner panel is mounted to the rear of the enclosure on collar studs.
- Removable door is attached with slip hinges.
- To remove door, a tool is required to remove the #8 screw which captivates hinge.
- Door is fastened with a slotted 1/4 turn latch; doors 30" and higher are provided with two latches.
- A bonding stud is provided on the door and a grounding stud is provided in the box.

Finish

- Enclosure and door are finished in ANSI 61 gray powder coating.
- Inner panel is finished in white powder coating.

Accessories

- Additional inner panels...*see page 434*
- Lock kit for NEMA 1 enclosures (Part No. 1427LKN1)...*see page 428*
- Louvered ventilating plates
...*see page 450*
- Window kits...*see page 444*
- Padlock Adaptor (Part No. EJPA)
...*see page 432*

Panel Enclosures

Part No.	Mounting Centers			Panel Size					Ship Wt. lbs	
	A	B	C	J	F	D	E	H		O
1420B7 ^{1,2}	16	12	7	17.50	9.50	14	10	5.88	—	26
1420C7 ^{1,2}	20	16	7	21.50	10.00	18	14	5.88	—	39
1420D7 ^{1,2}	20	20	7	21.50	14.00	18	18	5.88	—	48
1420E7 ¹	24	20	7	25.50	14.00	22	18	5.88	—	53
1420F7 ¹	30	20	7	31.50	14.00	28	18	5.88	6.16	67
1420G7 ¹	30	24	7	31.50	18.00	28	22	5.88	6.16	79
1420H7 ¹	36	24	7	37.50	18.00	34	22	5.88	7.16	90
1420E9 ¹	24	20	9	25.50	14.00	22	18	7.88	—	60
1420EM9 ¹	24	24	9	25.50	18.00	22	22	7.88	—	71
1420G9 ¹	30	24	9	31.50	18.00	28	22	7.88	6.16	84

1 UL Listed

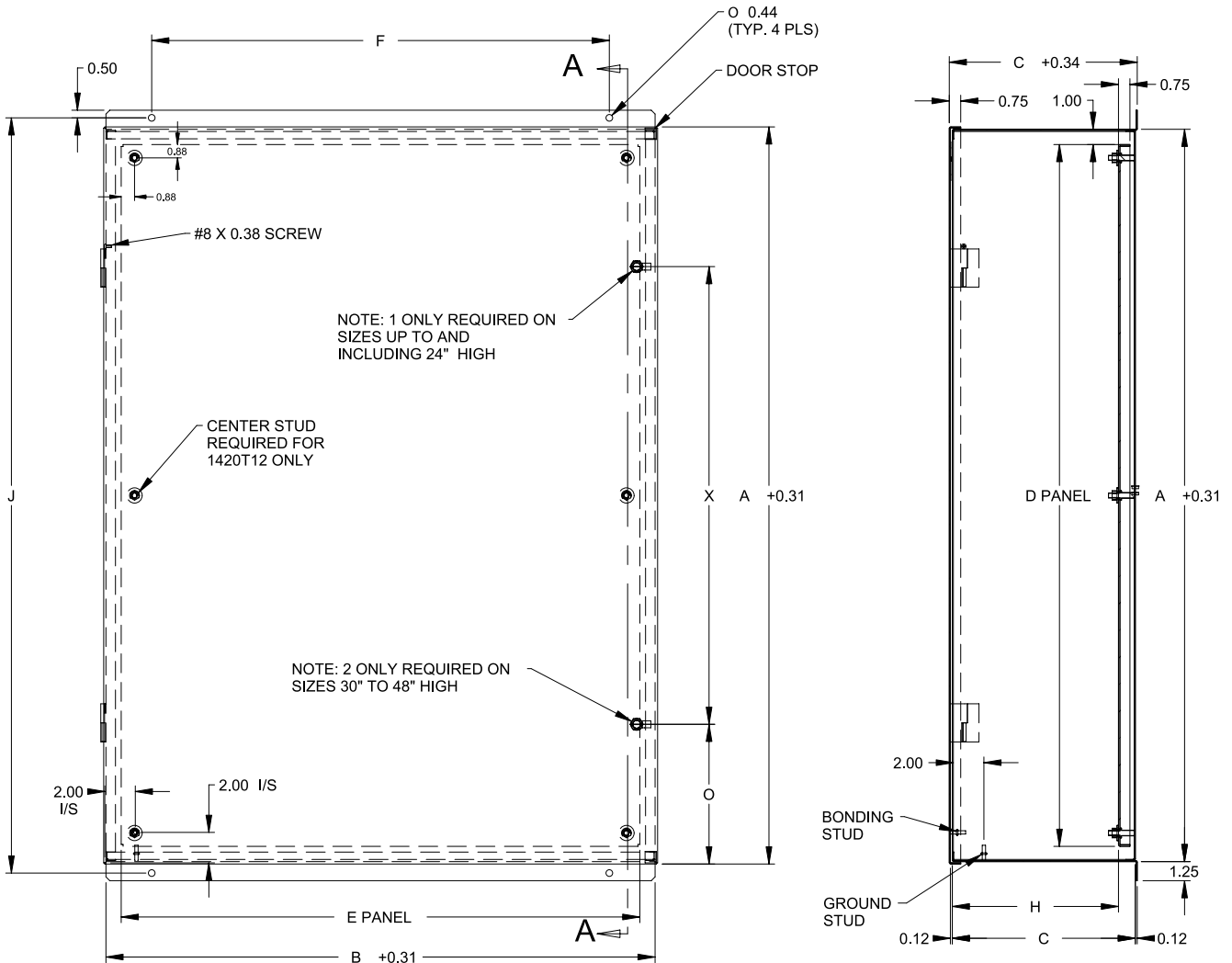
2 Flat Panel

1420 Series Panel Enclosure

Non-Ventilated - NEMA 1

Commercial Enclosures

Panel Enclosures



FRONT VIEW

SECTION A-A

When A=	X=
30	18.00
36	22.00
42	26.00
48	30.00

Part No.	Mounting Centers				Panel Size		H	O	Ship Wt. lbs	
	A	B	C	J	F	D				E
1420H9 ¹	36	24	9	37.50	18.00	34	22	7.88	7.16	98
1420P9	36	30	9	37.50	24.00	34	28	7.88	7.16	118
1420Q9 ¹	42	24	9	43.50	18.00	40	22	7.88	8.16	111
1420G12 ¹	30	24	12	31.50	18.00	28	22	10.88	6.16	92
1420P12	36	30	12	37.50	24.00	34	28	10.88	7.16	128
1420R12	42	30	12	43.50	24.00	40	28	10.88	8.16	142
1420S12	42	36	12	43.50	30.00	40	34	10.88	8.16	156
1420T12	48	36	12	49.50	30.00	46	34	10.88	9.16	214
1420G16 ¹	30	24	16	31.50	18.00	28	22	14.88	6.16	105
1420P16	36	30	16	37.50	24.00	34	28	14.88	7.16	144

1 UL Listed

2 Flat Panel

N1WS Series Surface Mount Panel Enclosure

3 Piece Assembly - NEMA 1



Commercial Enclosures

Application

- Designed for indoor use to enclose controls, instruments, and components which do not require oil-tight or dust-tight protection.
- Ideal for applications where components may be easily mounted and wired prior to installation of wrapper and door.

Standards

- UL 50 Type 1
- CSA Type 1
- **Complies with**
 - NEMA Type 1
 - IEC 60529, IP20

Construction

- Three piece assembly consisting of a base, wrapper, and door.
- Components are attached and secured with metal screws.
- 14 gauge reverse formed base provides clearance for mounting hardware.
- Wrapper is available in three depths: 4", 6", and 8".
- Wrapper is formed from 16 gauge steel, with no knock-outs in the sides.
- Door assembly formed from 16 gauge steel.
- Removable door is mounted on slip hinges.
- A bonding stud is provided on the door and a grounding screw is provided for the enclosure.
- Door is fastened with a slotted quarter turn latch.

Finish

- Base, wrapper and door are finished in ANSI 61 gray powder coating.

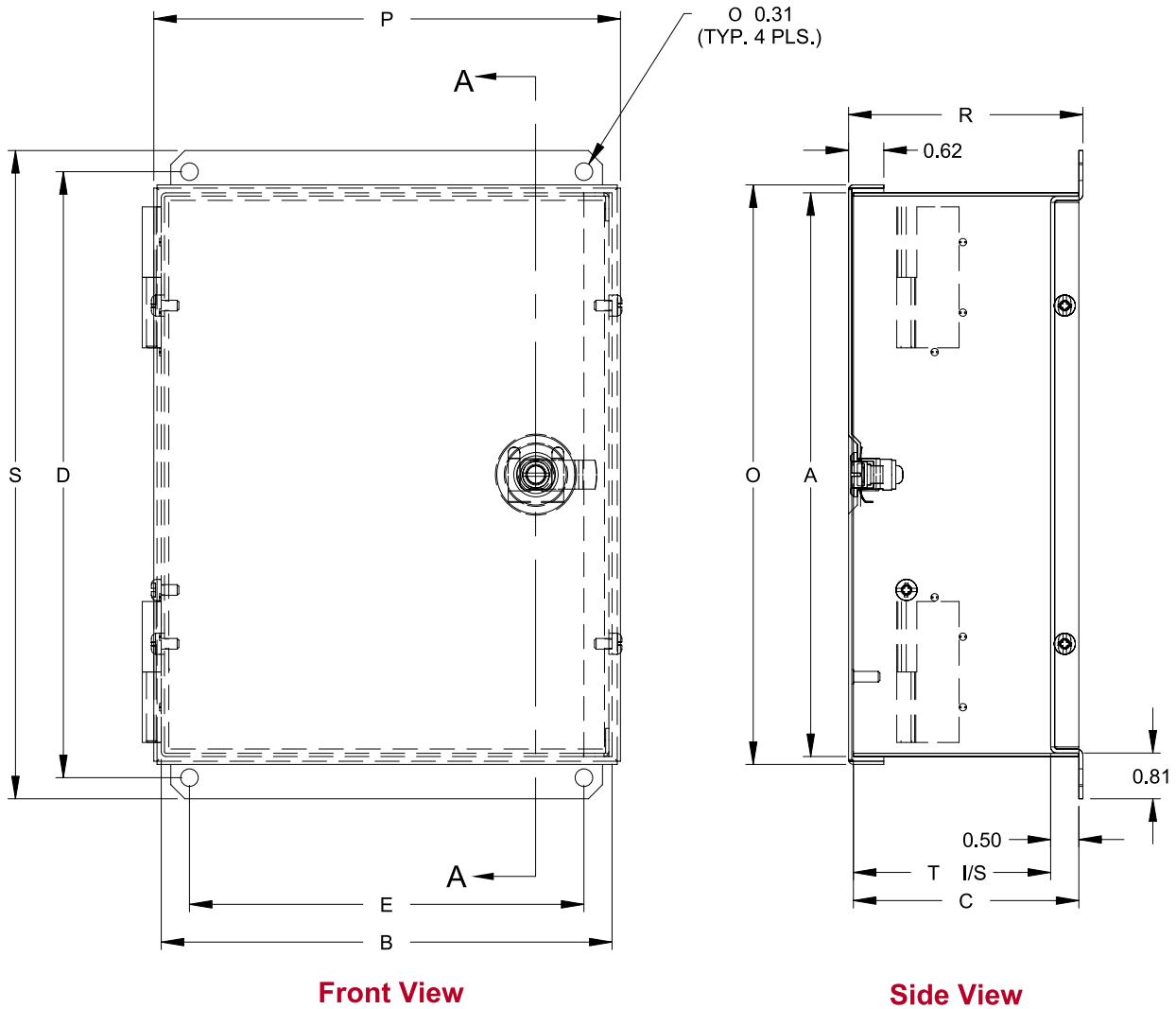
Accessories

- Surface lock kit (Part No. 1427Z)
...see page 428
- Padlock Adaptor (Part No. EJPA)
...see page 432

Panel Enclosures

N1WS Series Surface Mount Panel Enclosure

3 Piece Assembly - NEMA 1



Commercial Enclosures

Panel Enclosures

Part No.	Wrapper Size	Mounting Centers					Overall Dimensions				Ship Wt. Lbs.	
		A	B	C	D	E	P	R	S	T		O
N1WS864	4" Deep	8	6	4	8.75	5	6.28	4.16	9.5	3.5	8.28	5
N1WS1084		10	8	4	10.75	7	8.28	4.16	11.5	3.5	10.28	7
N1WS12104		12	10	4	12.75	9	10.28	4.16	13.5	3.5	12.28	10
N1WS16124		16	12	4	16.75	11	12.28	4.16	17.5	3.5	16.28	14
N1WS20164		20	16	4	20.75	15	16.28	4.16	21.5	3.5	20.28	20
N1WS24204		24	20	4	24.75	19	20.28	4.16	25.5	3.5	24.28	28
N1WS866	6" Deep	8	6	6	8.75	5	6.28	6.16	9.5	5.5	8.28	6
N1WS1086		10	8	6	10.75	7	8.28	6.16	11.5	5.5	10.28	9
N1WS12106		12	10	6	12.75	9	10.28	6.16	13.5	5.5	12.28	11
N1WS16126		16	12	6	16.75	11	12.28	6.16	17.5	5.5	16.28	16
N1WS20166		20	16	6	20.75	15	16.28	6.16	21.5	5.5	20.28	22
N1WS24206		24	20	6	24.75	19	20.28	6.16	25.5	5.5	24.28	31
N1WS868	8" Deep	8	6	8	8.75	5	6.28	8.16	9.5	7.5	8.28	7
N1WS1088		10	8	8	10.75	7	8.28	8.16	11.5	7.5	10.28	10
N1WS12108		12	10	8	12.75	9	10.28	8.16	13.5	7.5	12.28	13
N1WS16128		16	12	8	16.75	11	12.28	8.16	17.5	7.5	16.28	18
N1WS20168		20	16	8	20.75	15	16.28	8.16	21.5	7.5	20.28	26
N1WS24208		24	20	8	24.75	19	20.28	8.16	25.5	7.5	24.28	34

N1WF Series Flush Mount Panel Enclosure

3 Piece Assembly - NEMA 1



Commercial Enclosures

Application

- Designed for indoor use to enclose controls, instruments, and components which do not require oil-tight or dust-tight protection.
- Ideal for applications where components may be easily mounted and wired prior to installation of wrapper and door.

Standards

- UL 50 Type 1
- CSA Type 1
- **Complies with**
 - NEMA Type 1
 - IEC 60529, IP20

Construction

- Three piece assembly consisting of a base, wrapper, and door.
- Components are attached and secured with metal screws.
- 14 gauge reverse formed base provides clearance for mounting hardware.
- Punched for left or right hinging of the door and ease of assembly.
- Wrapper is formed from 16 gauge steel, with no knock-outs in the sides.
- Flush mounting door assembly formed from 16 gauge steel.
- Door is fastened with a slotted quarter turn latch.
- A bonding stud is provided on the door and a grounding screw is provided for the enclosure.

Finish

- Base, wrapper and door are finished in ANSI 61 gray powder coating.

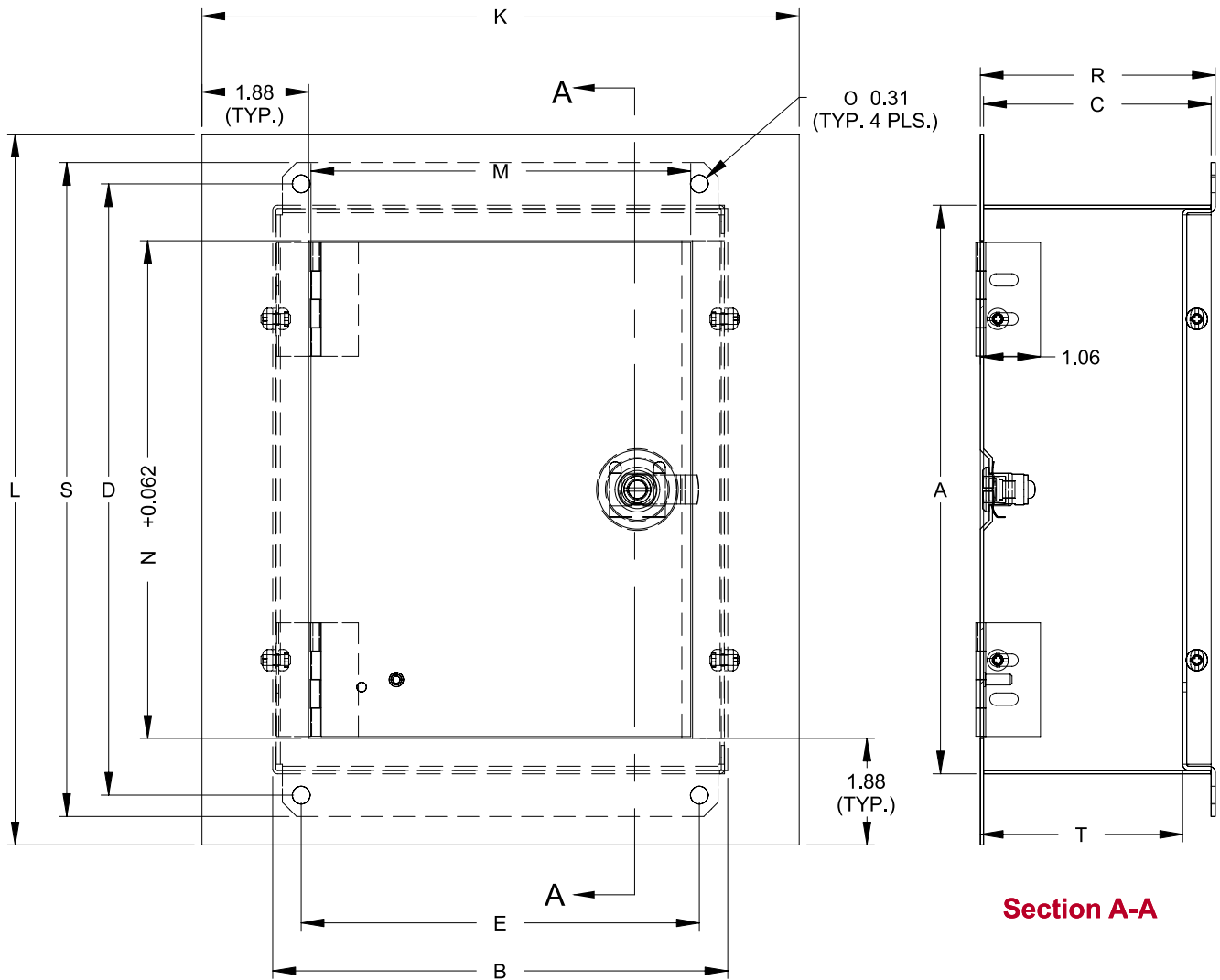
Accessories

- Flush lock kit (Part No. **1427BK**)
...see page **428**
- Padlock Adaptor (Part No. **EJPA**)
...see page **432**

Panel Enclosures

N1WF Series Flush Mount Panel Enclosure

3 Piece Assembly - NEMA 1



Front View

Section A-A

Commercial Enclosures

Panel Enclosures

Part No.	Wrapper Size		Mounting Centers		Door			Overall Dimensions			Base		Ship Wt. Lbs
	A	B	C	D	E	M	N	K	R1	L	S	T1	
N1WF864	8	6	4	8.75	5	4.46	6.68	8.5	4.13 - 4.6	10.5	9.5	3.5 - 3.9	6
N1WF1084	10	8	4	10.75	7	6.46	8.68	10.5	4.13 - 4.6	12.5	11.5	3.5 - 3.9	8
N1WF12104	12	10	4	12.75	9	8.46	10.68	12.5	4.13 - 4.6	14.5	13.5	3.5 - 3.9	11
N1WF16124	16	12	4	16.75	11	10.46	14.68	14.5	4.13 - 4.6	18.5	17.5	3.5 - 3.9	15
N1WF20164	20	16	4	20.75	15	14.46	18.68	18.5	4.13 - 4.6	22.5	21.5	3.5 - 3.9	22
N1WF24204	24	20	4	24.75	19	18.46	22.68	22.5	4.13 - 4.6	26.5	25.5	3.5 - 3.9	30