

MERLIN GERIN

Panelboard PN16 is available completely mounted as well as in kit to be assembled in accordance with UL Merlin Gerin panelboard procedures.

advantages

- all incoming cables are connected at the same location for easy installation, either on top or bottom
- high versatility : every circuit breaker can be mounted anywhere on the bus bars
- double mounted breakers up to 600A
- one-piece dead front with spring latch mounting system for easy removal
- easy access to the cables through the hinged side wireway doors
- reduced number of parts for a lower inventory.

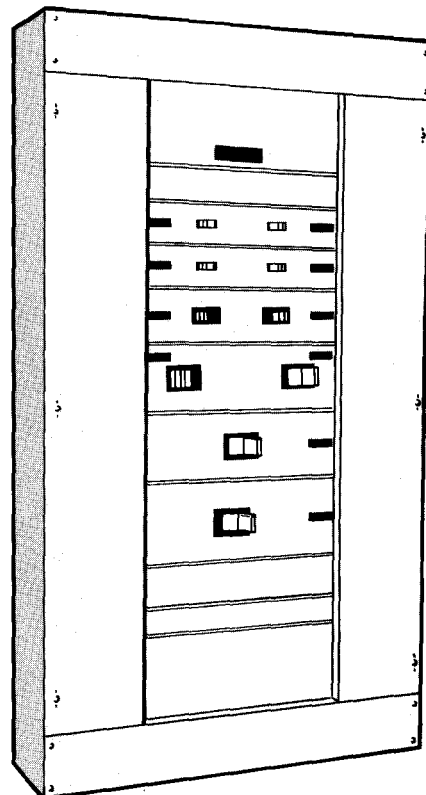
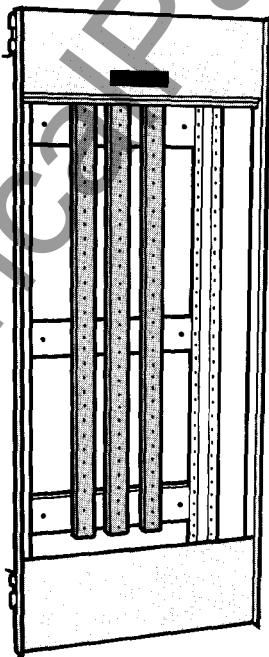
characteristics

- rated voltage : 600V AC, 250V DC
- bus bars ratings : 250A, 400A, 600A, 800A, 1200A, 1600A
- top or bottom feeding through main breaker or main lugs :
 - main breaker : 1200A max.,
 - main lugs : 1600A max.
- system : 1Ø2W, 1Ø3W, 3Ø3W, 3Ø4W
- bus bars : solid copper, 1, 2 or 3 bars per phase
- short circuit rating : PN16 is listed for 100,000 Amps or the lowest interrupting rating of any breaker installed
- classification : service entrance equipment and class CTL panelboard
- boxes : code gauge galvanized steel with wiring gutters in accordance with UL and NEC standards
- RAL1019 beige finish. Others colors on request.

standards

- UL listed under file no. E116496 in compliance to UL 67, UL 50 and UL 891
- WP-115b Federal Specification
- NEMA PB1
- National Electrical Code 1987
- IEC 439 part 1

Panelpact™ PN16



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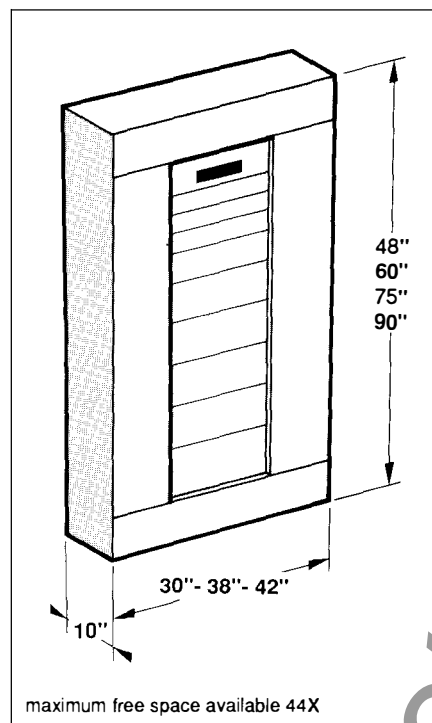
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configuration with circuit breakers

Panelboard PN16 can be fitted with all types of Merlin Gerin molded case circuit breakers either N (standard interrupting rating) or H (high) from 15 to 1200A, offering exceptional features as standard :

- ensured positive break indication
- double insulation
- moisture and fungus treatment
- solid state protection from 400A
- field installable accessories

dimensions



type	ampere rating (A)	no. of poles	voltage (V)	no. of X	interrupting ratings RMS sym. Amps			
					120V	240V	277V	480V
standard interrupting rating								
CE 104E	15-100	1	277	1	18,000		10,000	
		2	480	2		18,000		10,000
		3	480	3		18,000		10,000
CE 104N	15-100	1	277	1	42,000		14,000	
		2	480	2		42,000		14,000
		3	480	3		42,000		14,000
CF 250N	90-250	2-3	480	4		25,000		22,000
CJ 400N	200-400	3	480	5		42,000		30,000
CJ 600N	300-600	3	480	5		42,000		30,000
CK 800N	400-800	3	480	6		42,000		30,000
CK 1200N	600-1200	3	480	6		42,000		30,000

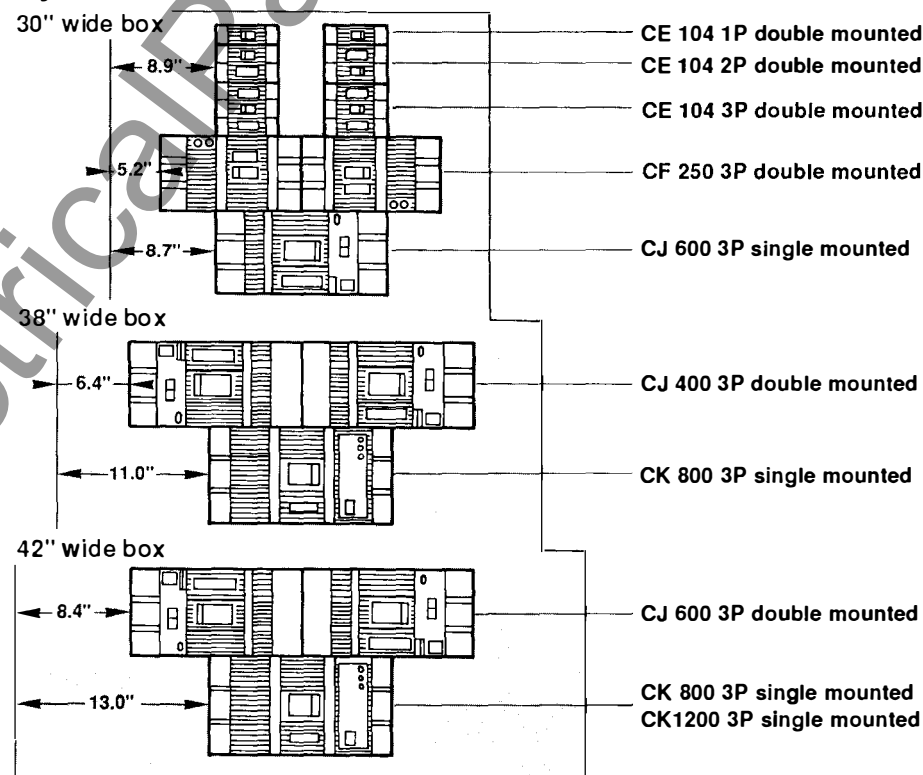
high interrupting rating

CE 104H	15-100	2	480	2		65,000		18,000
		3	480	3		65,000		18,000
CF 250H	90-250	2-3	480	4		85,000		35,000
CJ 400H	200-400	3	480	5		65,000		35,000
CJ 600H	300-600	3	480	5		65,000		35,000
CK 800H	400-800	3	480	6		65,000		50,000
CK 1200H	600-1200	3	480	6		65,000		50,000

current limiting circuit breaker

CE 104L	15-100	3	480	3		100,000		100,000
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layout



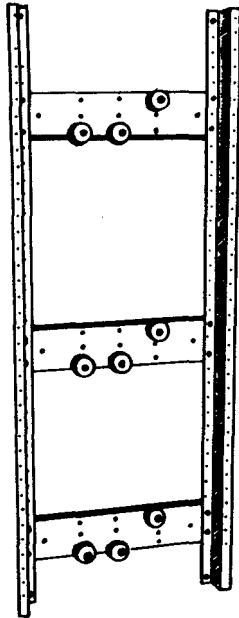
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fax. (404) 432.9179

"As standard specifications and designs change from time to time, please ask for confirmation of the information given in the publication."

Panelpack - PN16 Description

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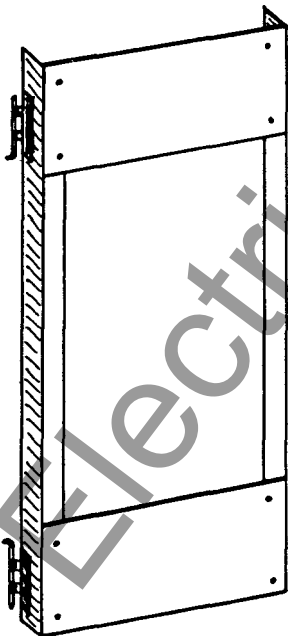
1. Basic Chassis



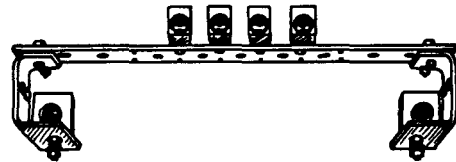
2. Chassis with Bus Bars



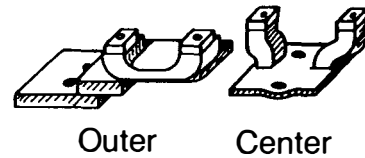
3. Dead Front



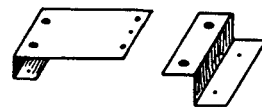
4. Neutral Kit



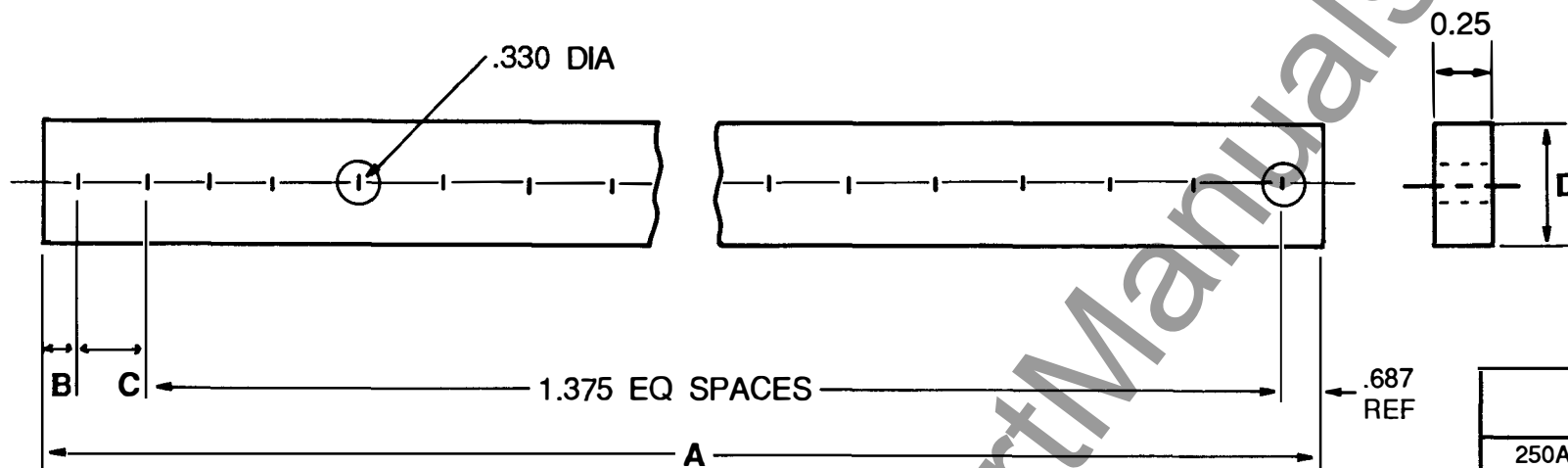
5. Straps



6. Z Bracket



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	D	Number of Bus Bars
250A	1.00	1
400A	1.625	1
800A	1.625	2
600A	2.50	1
1200A	2.50	2

TABLE												
	48"			60"			75"			90"		
	A	B	C	A	B	C	A	B	C	A	B	C
250A	20.625	.687	2.062	31.625	.687	2.062	----	----	----	----	----	----
400/800A	19.875	.50	1.312	30.875	.50	1.312	46.000	.50	1.312	61.125	.50	1.312
600/1200A	19.875	.50	1.312	30.875	.50	1.312	46.000	.50	1.312	61.125	.50	1.312

ENG'G. REF. DWG.

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PN16 BUS BARS

ELECT.
CONTR.

ENGR.

DRAWN BY

DATE

11/3/88

APPROVED BY

DATE

SCALE

1 = 32

JOB NO.

CUSTOMER
ORDER NO.

ITEM NO.

DWG. NO. 555B573

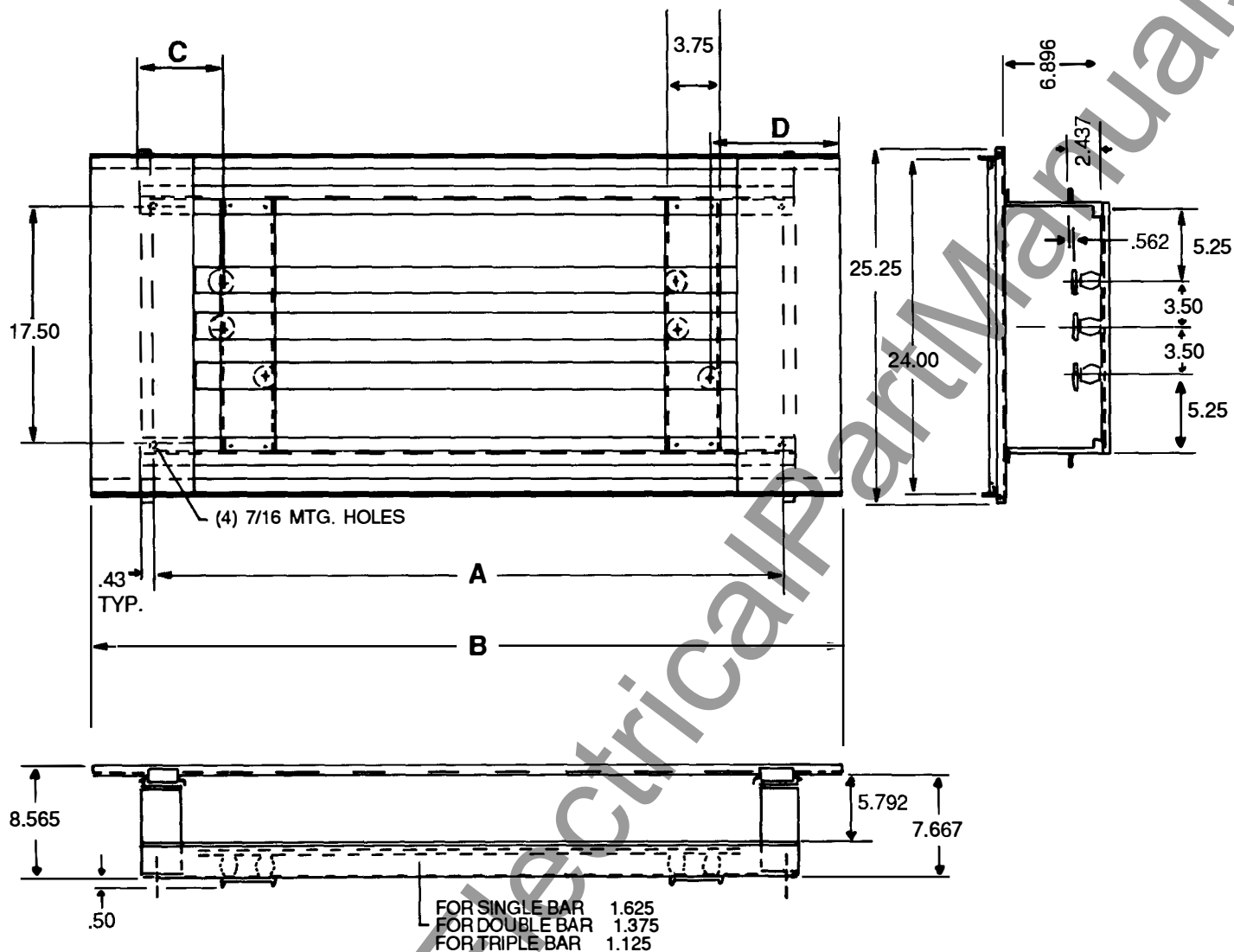


TABLE		
CHASSIS	A	B
48"	26.125	35.00
60"	37.125	47.00
75"	52.250	62.00
90"	67.375	77.00

TABLE		
	C	D
250A	6.187	3.437
400/600/800A	7.562	4.812
1200A	4.812	4.812

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CHASSIS ASSEMBLY DIMENSIONS

ELECT.
CONTR.

ENGR.

DRAWN BY

DATE

11/3/88

APPROVED BY

DATE

SCALE

1 = 32

JOB NO.

CUSTOMER
ORDER NO.

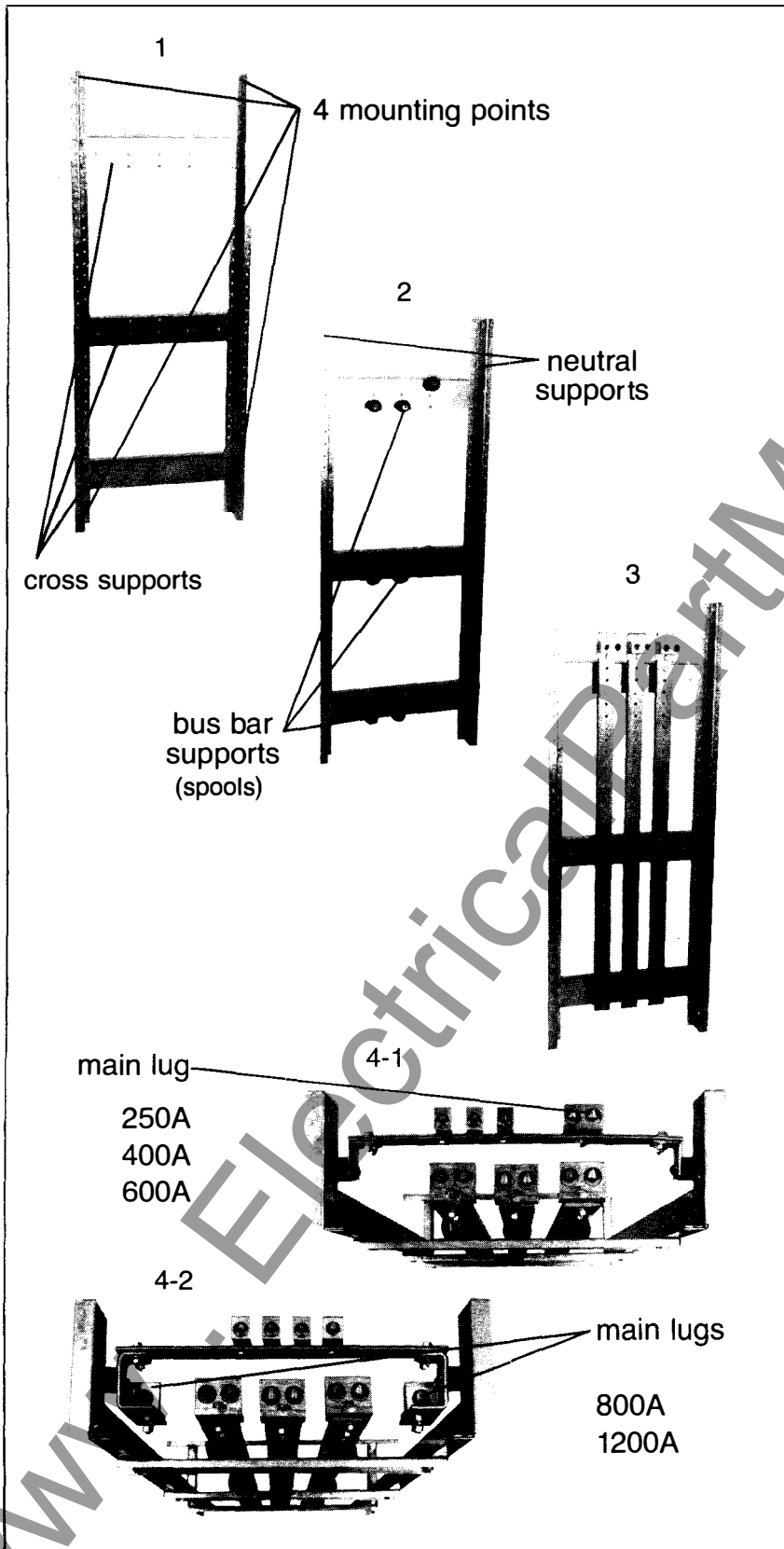
ITEM NO.

DWG. NO. 555B573

PANELPACT 16 – ASSEMBLY DESCRIPTION

PN16 CHASSIS:

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1/The PN16 chassis comes in 4 different heights and one standard width.

heights are 48" height
60"
75"
90"

On 48" and 60" high chassis, only 2 cross supports are necessary. On 75" and 90", a 3rd cross support must be added.

2/The insulated bus bar supports (spools) are bolted on the cross support. The bus bars are mounted on the spools. Each spool can be located in 3 different positions in order to avoid any possible interference with a connecting strap.

2 smaller spools, attached to each side rails, support the neutral.

3/The bus bars are bolted on the spools.

They come in 6 different ratings (and in 4 lengths related to chassis heights) using 4 different types:

250A (1) 0.25"x1" bar(s)

400A (1) 0.25"x1.625"

600A (1) 0.25"x2.5"

800A (2) 400A

1200A(main break.) (2) 600A

1200A(main lugs) (2) .25"x2.5"

When using 1 bar only, a 0.25" spacer is used to keep the same elevation of the bus bars.

4/The neutral is a copper bus bar 0.25"x 2". (2 are supplied for 1200)

4-1/For 250A, 400A & 600A it is supported by 2 metallic brackets.

The main lugs are mounted on the neutral bar.

4-2/For 800A, 1200A, the neutral is supported by 2U shaped copper parts on which the main lugs are mounted.

5/The dead front is supported by:

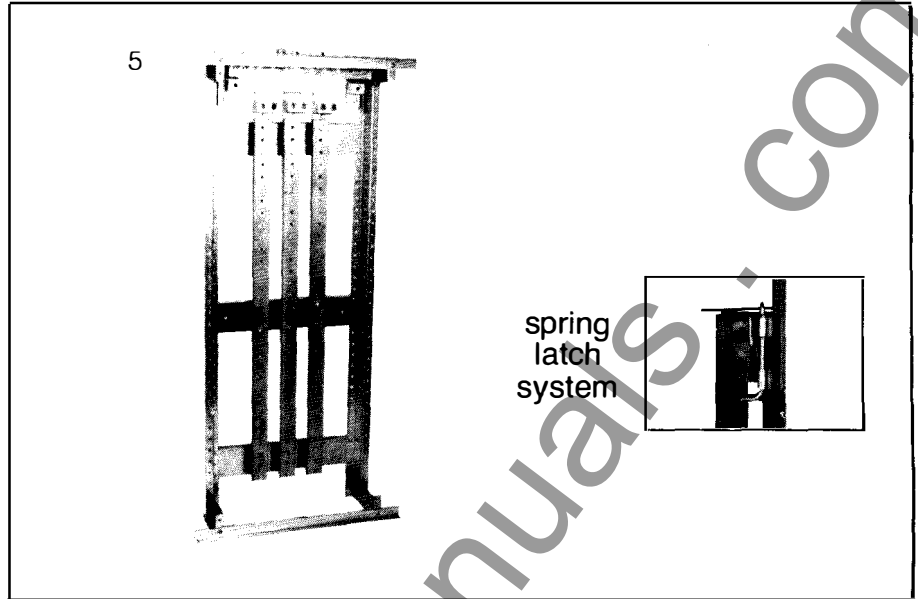
- 4 metallic corners
- 2 cross bars on which the dead front frame is fixed using a spring latch system.

The dead front frame consists of:

- 2 side rails with spring latches
- top and bottom filler plates

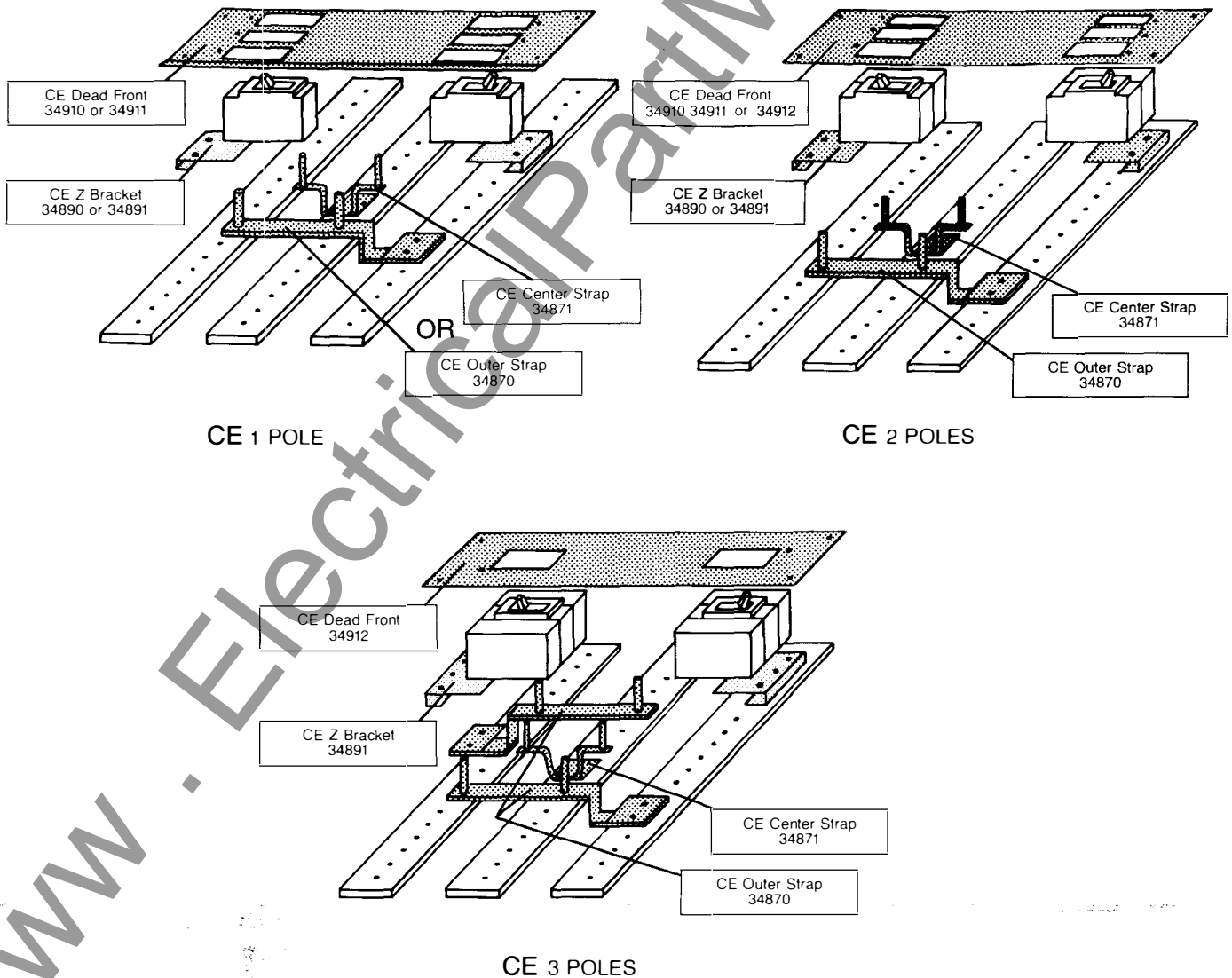
Circuit breakers dead front filler plates are screwed on the frame as required by the configuration of the panelboard. Blank filler plates are also available.

See dead front frame
(last page figure 3)

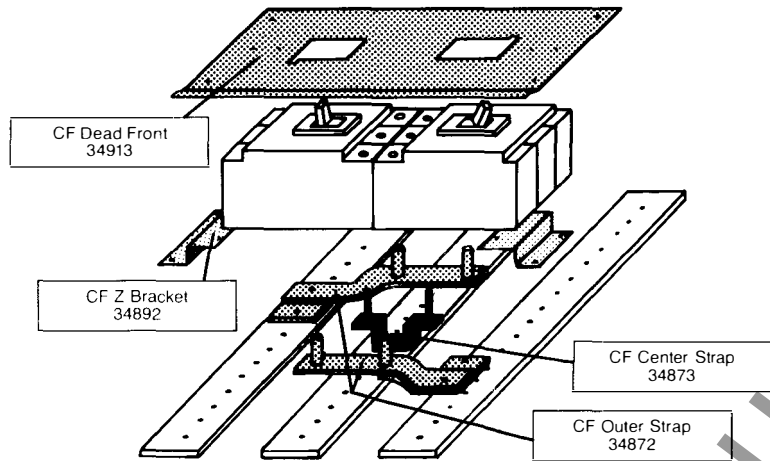


PN16 CIRCUIT BREAKERS & SWITCHES mounting parts:

CE FRAME

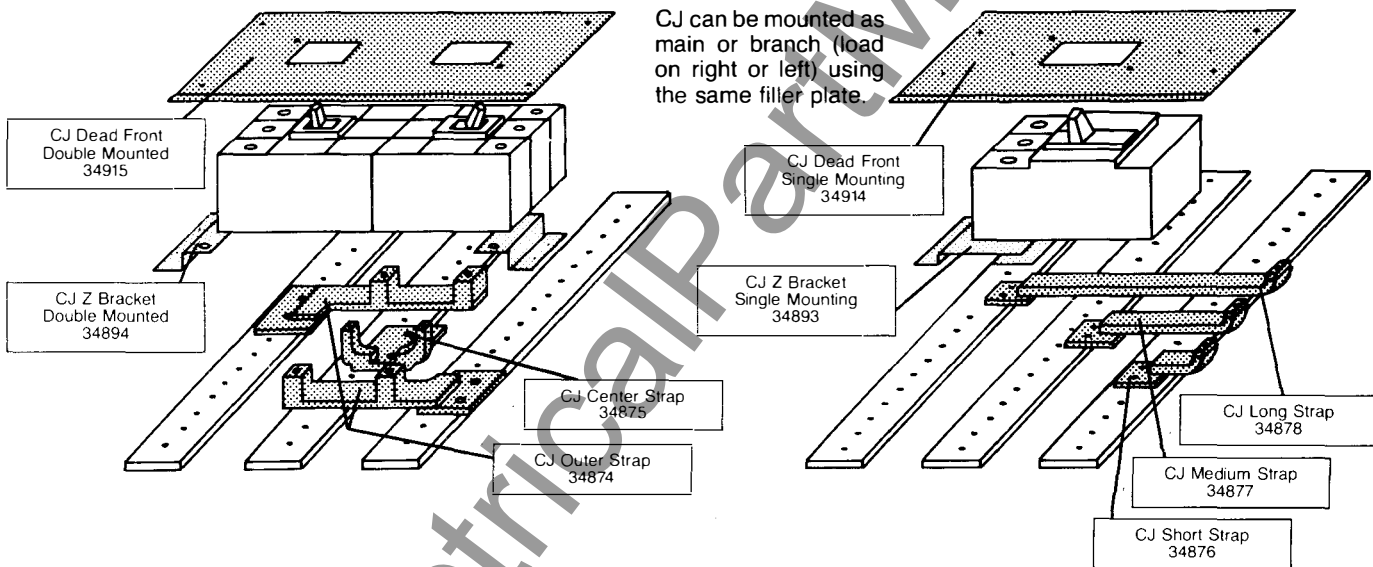


CF FRAME

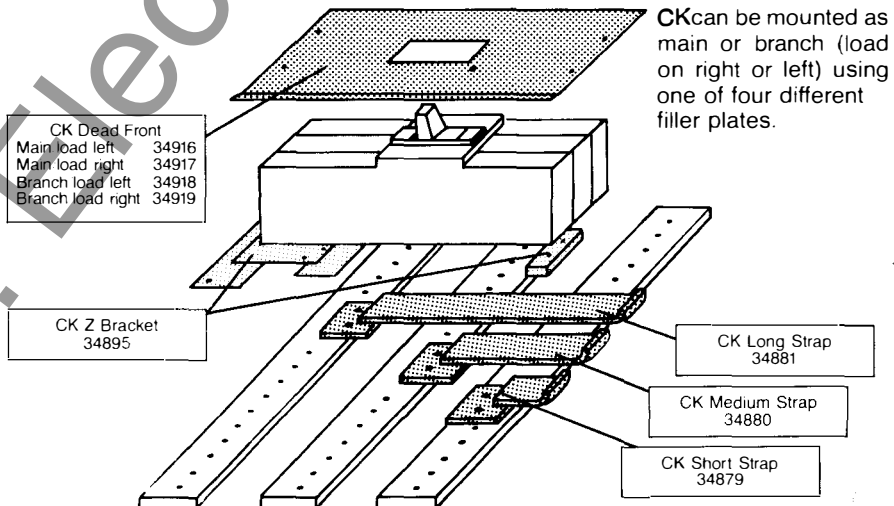


CJ FRAME DOUBLE MOUNTED

CJ FRAME SINGLE MOUNTED

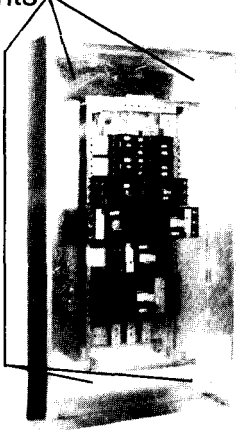


CK FRAME

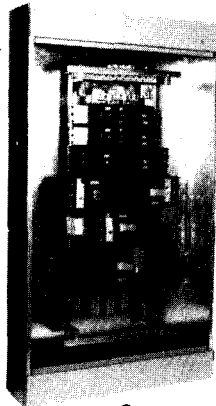


PN16 BOX & CHASSIS assembly:

mounting
points



1



2

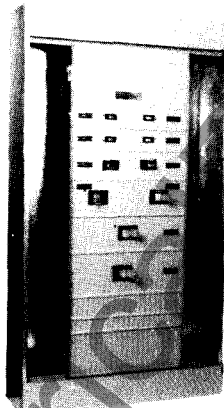
1/The box of the PN16 can be
30" 48"
38" wide by 60" high
42" 75"
90"

The chassis equipped with breakers
is attached to the back panel of
the box at four points.

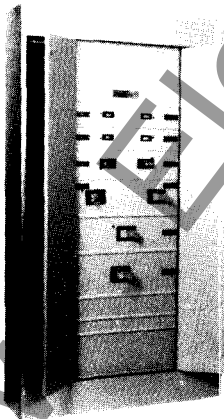
2/Top and bottom trim are bolted to
the box.



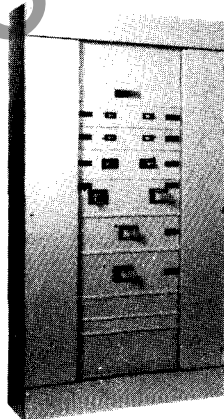
3



3/The dead front frame with filler
plates is mounted on the chassis
using the spring latch system.



4



4/The two side doors, providing
access to the wiring gutters, are fixed
to the box.