

NF Main Neutral Conductors – Required Size and Quantity

Panelboard Ampacity	Neutral Conductors Required	Actual Lug Wire Range
125	(1) #1 Cu, or (1) 2/0 Al	(1) #6–2/0
250	(1) 250 kcmil Cu, or (1) 350 kcmil Al	(1) #6–350 kcmil
400	(1) 600 kcmil Cu, or (2) 3/0 Cu, or (2) 250 kcmil Al	(1) 1/0–750 kcmil (2) 1/0–300 kcmil
600	(2) 350 kcmil Cu, or (2) 500 kcmil Al	(1) 1/0–750 kcmil (2) 1/0–300 kcmil

NF Standard Mechanical Lugs—Main Circuit Breaker

Ampere Rating	Circuit Breaker Type	Lug Wire Range *
100	FI	one #14–1/0 Cu or one #12–1/0 Al
125	ED,EG,EJ	one #14–2/0 Al/Cu
150	HD, HG, HJ, HL	one #14–3/0 Al/Cu
250	JD, JG, JJ, JL	one 3/0–350 kcmil Al/Cu
250	KI	one 1/0–350 kcmil Al/Cu
400	LA, LH	one #1–600 kcmil or two #1–250 kcmil Al/Cu
600	LC, LI, LE, LX, LXI	two 4/0–500 kcmil Al/Cu

* The lug range shown is for the highest ampere of the circuit breaker frame shown in the table.

Optional Main Lug Kits for NF Main Lug Panelboards

Amps	Aluminum				Copper			
	Aluminum Mechanical ●		Aluminum Compression		Copper Mechanical		Copper Compression	
	Cat. #	Lug Wire Range	Cat. #	Lug Wire Range	Cat. #	Lug Wire Range	Cat. #	Lug Wire Range
125	NFALM1	(1) #6–2/0	NFALV1▼	(1) #4–300 kcmil	NFCUM1	(1) #6–350 kcmil	NFCUV1■	(1) #6–1/0
250	NFALM2	(1) #6–350 kcmil	NFALV2	(1) 250–350 kcmil	NFCUM2	(1) #6–350 kcmil	NFCUV2■	(1) 2/0–300 kcmil
400	NFALM4	(1) 1/0–750 kcmil or (2) 1/0–350 kcmil	NFALV4	(2) 2/0–500 kcmil	NFCUM4	(1) 1/0–750 kcmil or (2) 1/0–350 kcmil	NFCUV4	(1) 400–750 kcmil
600	NFALM6	(2) 1/0–600 kcmil	NFALV6	(2) 2/0–500 kcmil	NFCUM6	(2) 1/0–750 kcmil	NFCUV6	(2) 250–500 kcmil
800	Factory Assembled Only – Contact Local Sales Office.							

▼ Use of this kit requires an additional 6" added to the box height. ■ Use of this kit to terminate larger than standard wire sizes requires an additional 6" added to the box height.
● Standard mechanical lugs for Main Lugs panels.

NF RTI (ready to install) Accessories

Description	Application	Catalogue No.
Equipment Ground Bars	Aluminum	PK27GTA
	Copper	PK27GTACU
	Large Al Lug	PK23GTAL
	Insulator Kit	PKGTAB
Plastic stick-on directory pouch		80031 15 901
Directory Cards		80031 15 801
Filler Plate (15 per package)		NFFP15
Circuit Numbering Strips	Odd-Even 1-102	NF102OE
	Sequential 1-102	NF102S
	Odd-Even 103-204	NF204OE
	Sequential 103-204	NF204S
Rail & Deadfront extensions	6" Extension	NF6RDE
	12" Extension	NF12RDE
	18" Extension	NF18RDE
Branch Breaker Accessories		
Standard AL lugs 15–30A (3 per kit)		AL30FD
Standard AL lugs 35–110A (3 per kit)		AL100FD
Optional Cu lugs 15–110A (3 per kit)		CU100FD
Handle lockoff/padlock attachment		HPAFD
Terminal nut insert kit (3 per kit)		TIKFD
AL compression lug kit #8-1/0 AWG (3 lugs per kit)		VC100FD
Cu compression lug kit #6-1/0 AWG (3 lugs per kit)		CVC100FD

Description	Application	Catalogue No.
Lock - Enclosures	Type 1	PK22FL
Key - NSR-251	Type 1 encl.	LP 9618
Key - DSR-251	Type 3R encl.	DSR251
Handle Padlock Attachment	Breakers	HPAFD
Mounting Nut (4 per pkg.)	Interiors	23220 000 03
Leveling Nut (4 per pkg.)	Flush only	NFLN
Trim Mounting Screws & Hardware		
250A Max. Interiors (10 per pkg.)		NFTMS1
800A Max Interiors (8 per pkg.)		LP9502
Drip Hood for std encl.	20" Wide	MHT2DH20
Aluminum Entry Plate		MHCOEW20A
Fibre Entry Plate		MHCOEW20F
Barrier for Backfed Main Breaker	20" Enclosure ●	NFBFMB20
Nipple Kit for Flush Mount Trims		DTNKF
Nipple Kit for Surface Mount Trims		DTNKS

Note:

● In back-fed main breaker application the use of NFBFMB20 barrier is recommended. Please refer to local Electrical Codes or Authorities for specific local requirements.

Oversized Lugs for Neutral or Ground Bar

Lug Wire Range	Catalogue No.
#10–#2 Al or #14–#4 Cu	QO70AN
#4–#1/0 Al/Cu	Q1100AN
#1–#4/0 Al/Cu	Q1150AN



200% Neutral Kit



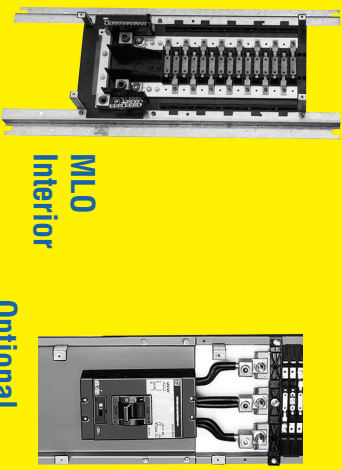
Ground bar PK27GTA



Stainless Steel Type 4x Enclosure

MLO
Interior

Optional

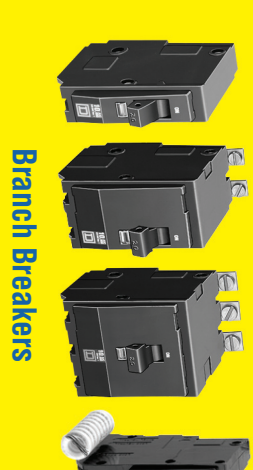


Box/Enclosure

Cover/Trim



Branch Breakers



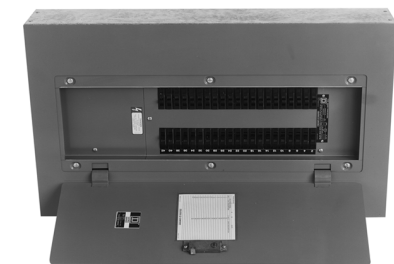
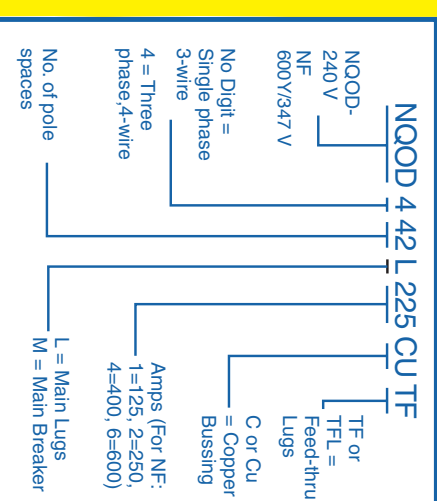
Accessories



- 1 Select voltage type of panel
- 2 Select amperage rating
- 3 Select number of branch circuits required
- 4 Select main lugs or main circuit breaker
- 5 Select system (phase/wire), determine interior catalogue number and main breaker kit if required
- 6 Select enclosure type, determine box and trim catalogue numbers
- 7 Select branch circuit breakers
- 8 Select accessories

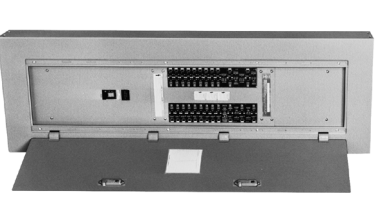
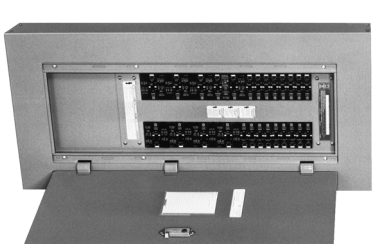
NOOD 442 L 225 CU TF

- NOOD - 240 V
- NF - 6003/347 V
- No Digi = Single phase
- 3-wire
- 4 = Three phase 4-wire
- No. of pole
- spaces
- L = Main Lugs
- M = Main Breaker
- Amps (Fcu, NF): 4 = 250, 2500, 4=400 (565b)
- C or Cu
- Bussing
- Copper
- Feet-in
- Lugs
- TF or



- Uses popular QO® branch circuit breakers
- 200% rated neutrals for non-linear loads
- Interiors are field convertible for top or bottom feed
- Convertible from main lug to main breaker

A photograph of a grey metal safe with its door open. Inside the safe, there is a keyboard and a small screen or display unit. The safe appears to be designed for secure storage of electronic equipment.



- Improved AIF ratings ... up to 25 kA_A at 600Y/347 VAC.
- Improved series ratings
- 200% rated neutrals for non-linear loads
- HID and SWD rated branch circuit breakers
- Convertible from main lug to main breaker

[illegible][illegible]

45	Q08145	Q08345	#8.2	#8.2	75°C
50	Q08150	Q08350	#8.2	#8.2	75°C
60	Q08160	Q08360	#8.2	#8.2	75°C
70	Q08170	Q08370	#8.2	#8.2	75°C
80	Q08280	Q08380	#4.20	#4.20	75°C
90	Q08290	Q08390	#4.20	#4.20	75°C
100	Q082100	Q083100	#4.20	#4.20	75°C
110	Q082110		#4.20	#4.20	75°C
125	Q082125		#4.20	#4.20	75°C

45	Q08145	Q08345	#8.2	#8.2	75°C
50	Q08150	Q08350	#8.2	#8.2	75°C
60	Q08160	Q08360	#8.2	#8.2	75°C
70	Q08170	Q08370	#8.2	#8.2	75°C
80	Q08280	Q08380	#4.20	#4.20	75°C
90	Q08290	Q08390	#4.20	#4.20	75°C
100	Q082100	Q083100	#4.20	#4.20	75°C
110	Q082110		#4.20	#4.20	75°C
125	Q082125		#4.20	#4.20	75°C

Amperes Rating	One Pole	Two Pole Common Trip	Three Pole Common Trip	Wire Size		Wire Temp.
				Al	Cu	
15	QCB1156FI	QCB2156FI		#12-8	#14-8	60/75°C
20	QCB1206FI	QCB2206FI		#12-8	#14-8	60/75°C
25	QCB1256FI	QCB2256FI		#12-8	#14-8	60/75°C
30	QCB1306FI	QCB2306FI		#12-8	#14-8	60/75°C
40		QCB2406FI		#12-8	#14-8	60/75°C
50				#12-4	#14-6	60/75°C
60		QCB2606FI			#8-4	75°C

Amperes Rating	One Pole	Two Pole Common Trip	Three Pole Common Trip	Wire Size		Wire Temp.
				Al	Cu	
15	QCB1156FI	QCB2156FI		#12-8	#14-8	60/75°C
20	QCB1206FI	QCB2206FI		#12-8	#14-8	60/75°C
25	QCB1256FI	QCB2256FI		#12-8	#14-8	60/75°C
30	QCB1306FI	QCB2306FI		#12-8	#14-8	60/75°C
40		QCB2406FI		#12-8	#14-8	60/75°C
50				#12-4	#14-6	60/75°C
60		QCB2606FI			#8-4	75°C

Amperes Rating	One Pole	Two Pole Common Trip	Three Pole Common Trip	Wire Sizes Al or Cu	Wire Temp.
15	QOB115AF1			#14-8	60/75°C
20	QOB120AF1			#14-8	60/75°C

Amperes Rating	One Pole	Two Pole Common Trip	Three Pole Common Trip	Wire Sizes Al or Cu	Wire Temp.
15	QOB115AF1			#14-8	60/75°C
20	QOB120AF1			#14-8	60/75°C

Blank	8011010501
With Knockouts	8011010401
Elevating Nuts (4 required/1 per pkg):	
100-600A	2342702200

Amperage Rating	One Pole 347 Volt	Two Pole 600kV/480V	Three Pole 600kV/480V	Wire Sizes At or C/L
15	EJ 19 16015	EJ 19 26015	EJ 19 36015	
20	EJ 19 16020	EJ 19 26020	EJ 19 36020	4A-3FD
25	EJ 19 16025	EJ 19 26025	EJ 19 36025	4A-46
30	EJ 19 16030	EJ 19 26030	EJ 19 36030	
35	EJ 19 16035	EJ 19 26035	EJ 19 36035	
40	EJ 19 16040	EJ 19 26040	EJ 19 36040	
45	EJ 19 16045	EJ 19 26045	EJ 19 36045	
50	EJ 19 16050	EJ 19 26050	EJ 19 36050	
60	EJ 19 16060	EJ 19 26060	EJ 19 36060	10-10FD
70	EJ 19 16070	EJ 19 26070	EJ 19 36070	4A-2D
80				
90	EJ 19 26090	EJ 19 36090		
100	EJ 19 26100	EJ 19 36100		
110	EJ 19 26110	EJ 19 36110		

Amperage Rating	One Pole 347 Volt	Two Pole 600kV/480V	Three Pole 600kV/480V	Wire Sizes At or C/L
15	EJ 19 16015	EJ 19 26015	EJ 19 36015	
20	EJ 19 16020	EJ 19 26020	EJ 19 36020	4A-3FD
25	EJ 19 16025	EJ 19 26025	EJ 19 36025	4A-46
30	EJ 19 16030	EJ 19 26030	EJ 19 36030	
35	EJ 19 16035	EJ 19 26035	EJ 19 36035	
40	EJ 19 16040	EJ 19 26040	EJ 19 36040	
45	EJ 19 16045	EJ 19 26045	EJ 19 36045	
50	EJ 19 16050	EJ 19 26050	EJ 19 36050	
60	EJ 19 16060	EJ 19 26060	EJ 19 36060	10-10FD
70	EJ 19 16070	EJ 19 26070	EJ 19 36070	4A-2D
80				
90	EJ 19 26090	EJ 19 36090		
100	EJ 19 26100	EJ 19 36100		
110	EJ 19 26110	EJ 19 36110		

Interrupting Ratings (kA)

Interrupting Ratings (kA)

2. Double lub kits can be used to increase no. of poles above 84.
3. For more information on NF & NODD panelboards, please see data bulletin containing the Square D Digest pages.
4. Total amperage for 2 branch breakers mounted across from each other is limited to 770A for 250A interiors and below.

Description	Catalogue No.
Aluminum Entry Plate	MHCXSW60F
Entry Plate Frame	MHCXSW60F
Drip Hood - 20" Wide Inclosure	NHFM2B80
Burner to Backed Main Burner 1	MHTM1B40
Double tub Nipple kit - Fast	DTMK
Double tub Nipple kit - Streets	DTMS
Equipment ground bars:	
12 circuit 250A mmk.	PK2GTA
18 circuit 250A mmk.	PK2GTA
24 circuit 250A mmk.	PK2GTA
42 circuit 250A mmk.	PK2GTA
54 circuit 250A mmk.	PK2GTA
54 circuit 250A mmk.	PK2GTA
PK3BIGTA with #1 to #40 A/CU lig	PK3BIGTA
PK3BIGTA with #1 to #40 A/CU lig	PK3BIGTA
Ground for insulator kit	PK3IGTAL
#1 to #40 (1 per package)	800A393703
Filler plate	EFP
Flat plate	PK2FTL
Lock - NEMA Type 1 enclosures	LPHB1
Key - NSF-251 (for all boxes)	800S11B81
Directory cards (per all boxes)	800S11B81
Plastic machinery point (1 per box)	800S11B81
Plastic machinery point (1 per box)	800S11B81
Hinge lockdown (each statement)	HPAFD
Nut - inner mounting	
(4 required per unit)	2322000003
Flux mount (flux mount only - 4 per unit)	NFLN
TimeMounting Straps-Hardware:	
250A max inches (10 per pkg)	NFSN1
300A max inches (5 per pkg)	PSR02