Finger-Safe Enclosed Power Distribution Blocks

Schneider Electric™ NSYEBs are enclosed IEC power distribution blocks which are finger safe from the front according to IP20, and available with copper or aluminum lugs. They have Short Circuit Current Ratings (SCCR) up to 100kA with specified fuses and up to 65kA with specified Square D circuit breakers in accordance with requirements set forth in National Electrical Code (NEC) and UL 508A. They are one-pole modular units with an interlocking dovetail feature that enables ganging of the blocks to create multi-pole configurations according to application requirements. NSYEB distribution blocks are either UL listed (UL 1953) for feeder circuits or UL recognized (UL 1059) for branch circuits and are CSA approved and RoHS compliant. CE marking ensures acceptance throughout the European community.

Features and Benefits

- Finger safe from the front, for isolation of live parts
- Up to 760 amps, to meet a wide range of application needs
- SCCR up to 100kA, not limited by 10kA default
- Panel or DIN rail mount units, for application flexibility
- Gang-able to create multi-pole configurations
- Flexible stranded wire compliant, expands usability

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Enclosed Power Distribution Blocks Short Circuit Current Ratings with Circuit Breakers

Why Short Circuit Current Ratings Are Important

- Assembly short-circuit current ratings are required per the NEC and UL508A listed industrial control panels.
- Marking the SCCR on industrial control panels (NEC 409.110), industrial machinery electrical panels (NEC 670.3A), and HVAC equipment (440.4B) is required by the NEC.
- Power distribution blocks without SCCR are typically one of the weakest links and will limit an assembly to 10kA SCCR.
- By using tested combinations of Schneider Electric's circuit breakers and enclosed power distribution blocks, the default of 10kA can be increased to up to 65kA depending upon the combination.
- By using tested combinations of fuses and enclosed power distribution blocks, the default of 10kA can be increased up to 100kA depending upon the combination.

Wire Type (Class)	Cat No.	Suitable Conductors kcmil/ AWG (mm2) CU		Overcurrent Protection Circuit Breaker Required			SCCR, RMS Sym A	Volts Max
B, C	NSYEBAD11611	4-2 (16-25)	10-2 (6-25)	Square D	JDL36250	250	18 kA	480
					JGL36250	250	35 kA	
					JJL36250	250	65 kA	
					JLL36250	250	65 kA	
		12-2 (4-25)	12-2 (4-25)	Square D	HDL36150	150	18 kA	
					HGL36150	150	35 kA	
					HJL36150	150	65 kA	
					HLL36150	150	65 kA	
		12-2 (4-25)	12-2 (4-25)	Square D	BDL36125	125	18kA	
					BGL36125	125	35kA	
					BJL36125	125	65kA	
B, C	NSYEBAD11614	4-2 (16-25)	10 (6)	Square D	JDL36250	250	18 kA	480
					JGL36250	250	35 kA	
					JJL36250	250	65 kA	
					JLL36250	250	65 kA	
		10-2 (6-25)	10 (6)	Square D	HDL36150	150	18 kA	
					HGL36150	150	35 kA	
					HJL36150	150	65 kA	
					HLL36150	150	65 kA	
		12-2 (4-25)	12-10 (4-6)	Square D	BDL36125	125	18kA	
					BGL36125	125	35kA	
					BJL36125	125	65kA	
B, C	NSYEBAD12611	4-3/0 (16-70)	8-3/0 (10-70)	Square D	JDL36250	250	18 kA	480
	NSYEBAP12611			Square D	JGL36250	250	35 kA	480
	NSYEBCD12611			Square D	JJL36250	250	65 kA	480
	NSYEBCP12611			Square D	JLL36250	250	65 kA	480
B, C	NSYEBAD12614	4-3/0 (16-70)	10-2 (6-25)	Square D	JDL36250	250	18 kA	480
	NSYEBAP12614			Square D	JGL36250	250	35 kA	480
	NSYEBCD12614			Square D	JJL36250	250	65 kA	480
	NSYEBCP12614			Square D	JLL36250	250	65 kA	480

All ratings on this page are UL Listed according to UL 1953.

Enclosed Power Distribution Blocks Short Circuit Current Ratings with Fuses

Catalog Number	Wire Type (Class)	Suitable Copper Conductors Range AWG (mm2)		Fuse Type / Amperage						SCCR
		Line	Load	J	T	RK1	RK5	G	CC	
NSYEBAD11611 [1]	B, C	14 - 2 (2.5-25)	14 - 2 (2.5-25)	175	225	100	-	-	-	100 kA
	G, H, I, K	14 - 4 (2.5-16)	14 - 4 (2.5-16)	175	225	100	-	-	-	100 kA
	*	14 - 2 (2.5-25)	14 - 2 (2.5-25)	NONE						10 kA
NSYEBAD11614 [1]	B, C	10 - 2 (6-25)	14 - 10 (2-5- 4)	125	200	100	-	-	-	65 kA
	G, H, I, K	10 - 4 (6-16)	14 - 10 (2-5- 4)	125	200	100	-	-	-	65 kA
	*	14 - 2 (2.5-25)	14 - 10 (2-5- 4)	NONE						10 kA
NSYEBAD12611 [1]	B, C	8 - 3/0 (10-70)	8 - 3/0 (10-70)	225	225	200	60	60	30	100 kA
NSYEBAP12611 [1]	G, H, I	8 - 2/0 (10-50)	8 - 2/0 (10-50)	300	300	200	100	60	30	100 kA
NSYEBCD12611 [1]	*	14 - 3/0 (2.5-70)	14 - 3/0 (2.5-70)	NONE						10 kA
NSYEBCP12611 [1]										
NSYEBAD12614 [1]	B, C	8 - 3/0 (10-70)	8 - 2 (10-25)	225	225	200	60	60	30	100 kA
NSYEBAP12614 [1]	B, C	8 - 3/0 (10-70)	12 - 8 (2.5-10)	100	110	100	30	60	30	100 kA
	G, H, I	8 - 2/0 (10-50)	8 - 4 (10-16)	225	225	200	60	60	30	100 kA
NSYEBCD12614 [1]	G, H, I	8 - 2/0 (10-50)	12 - 8 (4-10)	100	110	100	30	60	30	100 kA
NSYEBCP12614 [1]	*	14 - 3/0 (2.5-70)	14 - 2 (2.5-25)	NONE						10 kA
NSYEBAD13618 [2]	*	6 - 400 kcmil (16-185) & 14-3/0 (2.5-70)	14 - 2 (2.5-25)	NONE						10 kA
NSYEBCD13618 [2]										
NSYEBAP13618 [2]	B, C	3/0 - 400 kcmil (70-185)	8 - 2 (10-25)	400	400	400	200	60	30	100 kA
NSYEBCP13618 [2]	B, C	6 - 400 kcmil (16-185)	10 - 2 (6-25)	200	200	200	100	60	30	100 kA
	G, H, I	6 - 400 kcmil (16-185)	10 - 2 (6-25)	300	300	200	100	60	30	100 kA
	*	6 - 400 kcmil (16-185) & 14-3/0 (2.5-70)	14 - 2 (2.5-25)	NONE						10 kA
NSYEBAD25622 [2]	*	6 - 250 kcmil (16-120)	6 - 250 kcmil (16-120)	NONE						10 kA
NSYEBCD25622 [2]										
NSYEBAP25622 [2]	B, C	1/0 - 250 kcmil (50-120)	1/0 - 250 kcmil (50-120)	600	600	-	-	-	-	50 kA
NSYEBCP25622 [2]	B, C	1/0 - 250 kcmil (50-120)	1/0 - 250 kcmil (50-120)	400	400	400	200	60	30	100 kA
	B, C	6 - 250 kcmil (16-120)	6 - 250 kcmil (16-120)	400	400	400	100	60	30	100 kA
	G, H, I	1/0 - 250 kcmil (50-120)	1/0 - 250 kcmil (50-120)	300	300	200	100	60	30	100 kA
	*	6 - 250 kcmil (16-120)	6 - 250 kcmil (16-120)	NONE						10 kA
NSYEBAP27622 [1]	B, C	4 -500 kcmil (25-240)	4 -500 kcmil (25-240)	600	600	600	200	60	30	100 kA
	G, H, I	2 - 350 kcmil (35-150)	2 - 350 kcmil (35-150)	600	600	600	200	60	30	100 kA
	*	4 -500 kcmil (25-240)	4 -500 kcmil (25-240)	NONE						10 kA
NSYEBAP27628 [1]	B, C	250 - 500 kcmil (120-240)	4 - 2/0 (25-50)	600	600	400	200	60	30	100 kA
NSYEBCP27628 [1]	B, C	250 - 500 kcmil (120-240)	4 - 2/0 (25-50)	600	600	600	200	60	30	100 kA
NSYEBAP27628 [1]	B, C	4 - 500 kcmil (25-240)	10 - 2/0 (6-50)	350	350	200	100	60	30	100 kA
NSYEBCP27628 [1]	G, H, I	250 - 350 kcmil (120-150)	4 - 1 (25-35)	600	600	600	200	60	30	100 kA
	G, H, I	4 - 350 kcmil (25-150)	8 - 1 (10-35)	350	350	200	100	60	30	100 kA
	*	4 - 500 kcmil (25-240)	10- 2/0 (6-50)	NONE						10 kA

[1] UL Listed to UL 1953 for feeder circuits [2] UL Recognized to UL1059 for branch circuits

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Enclosed Power Distribution Blocks Selection Table

Catalog Number	Mounting Style	Conductor Material	Volts AC/ DC	Amps	SCCR RMS Amps 600V / Max.	Line		Load	
						Wire Range AWG/ kcmil (mm2) CU	Wire Range AWG/ kcmil (mm2) AL	Wire Range AWG/ kcmil (mm2) CU	Wire Range AWG/ kcmil (mm2) AL
NSYEBAD11611	35 mm DIN rail or Panel	AL	600	115 CU	Up to 100,000	(1) 14-2 (2.5-35)	N/A	(1) 14-2 (2.5-35)	N/A
NSYEBAD11614	35 mm DIN rail or Panel	AL	600	115 CU	Up to 65,000	(1) 14-2 (2.5-35)	N/A	(4) 14-10 (2.5-6)	N/A
NSYEBAD12611	35 mm DIN rail	AL	600	155 AL 200 CU	Up to 100,000	(1) 14-3/0 (2.5-70)	(1) 6-3/0	(1) 14-3/0 (2.5-70)	(1) 6-3/0
NSYEBAP12611	Panel	AL	600	155 AL 200 CU	Up to 100,000	(1) 14-3/0 (2.5-70)	(1) 6-3/0	(1) 14-3/0 (2.5-70)	(1) 6-3/0
NSYEBCD12611	35 mm DIN rail	CU	600	200 CU	Up to 100,000	(1) 14-3/0 (2.5-70)	N/A	(1) 14-3/0 (2.5-70)	N/A
NSYEBCP12611	Panel	CU	600	200 CU	Up to 100,000	(1) 14-3/0 (2.5-70)	N/A	(1) 14-3/0 (2.5-70)	N/A
NSYEBAD12614	35 mm DIN rail	AL	600	200 CU 155 AL	Up to 100,000	(1) 14-3/0 2.5-70)	(1) 6-3/0	(4) 14-2 (2.5-35)	(4) 6-2
NSYEBAP12614	Panel	AL	600	200 CU 155 AL	Up to 100,000	(1) 14-3/0 2.5-70)	(1) 6-3/0	(4) 14-2 (2.5-35)	(4) 6-2
NSYEBCD12614	35 mm DIN rail	CU	600	200 CU	Up to 100,000	(1) 14-3/0 2.5-70)	N/A	(4) 14-2 (2.5-35)	N/A
NSYEBCP12614	Panel	CU	600	200 CU	Up to 100,000	(1) 14-3/0 2.5-70)	N/A	(4) 14-2 (2.5-35)	N/A
NSYEBAD13618	35 mm DIN rail	AL	600	335 CU 270 AL	Up to 10,000	(1) 6-400 (16-185) (1) 14-3/0 (2.5-70)	(1) 6-400 (1) 6-3/0	(8) 14-2 (2.5-35)	(8) 6-2
NSYEBAP13618	Panel	AL	600	335 CU 270 AL	Up to 100,000	(1) 6-400 (16-185) (1) 14-3/0 (2.5-70)	(1) 6-400 (1) 6-3/0	(8) 14-2 (2.5-35)	(8) 6-2
NSYEBCD13618	35 mm DIN rail	CU	600	335 CU	Up to 10,000	(1) 6-400 (16-185) (1) 14-3/0 (2.5-70)	N/A	(8) 14-2 (2.5-35)	N/A
NSYEBCP13618	Panel	CU	600	335 CU	Up to 100,000	(1) 6-400 (16-185) (1) 14-3/0 (2.5-70)	N/A	(8) 14-2 (2.5-35)	N/A
NSYEBAD25622	35 mm DIN rail	AL	600	510 CU 410 AL	Up to 10,000	(2) 6-250 (16-120)	(2) 6-250	(2) 6-250 (16-120)	(2) 6-250
NSYEBAP25622	Panel	AL	600	510 CU 410 AL	Up to 100,000	(2) 6-250 (16-120)	(2) 6-250	(2) 6-250 (16-120)	(2) 6-250
NSYEBCD25622	35 mm DIN rail	CU	600	510 CU	Up to 10,000	(2) 6-250 (16-120)	N/A	(2) 6-250 kcmil (16-120)	N/A
NSYEBCP25622	Panel	CU	600	510 CU	Up to 100,000	(2) 6-250 (16-120)	N/A	(2) 6-250 kcmil (16-120)	N/A
NSYEBAP27622	Panel	AL	600	760 CU 620 AL	Up to 100,000	(2) 4-500 (25-240)	(2) 4-500	(2) 4-500 kcmil (25-240)	(2) 6-2/0
NSYEBAP27628	Panel	AL	600	760 CU 620 AL	Up to 100,000	(2) 4-500 (25-240)	(2) 4-500	(8) 14-2/0 (2.5-50)	(8) 4-500
NSYEBCP27628	Panel	CU	600	760 CU	Up to 100,000	(2) 4-500 (25-240)	N/A	(8) 14-2/0 (2.5-50)	N/A

> Put our expertise to work for you.

For more information on Schneider Electric power distribution blocks, visit us online at www.Schneider-Electric.US or talk to one of our experts at 1-888-778-2733.

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> Accessories

Terminal plugs insert into unused terminals.

NSYEBP2	Terminal plug size 2AWG
NSYEBP20	Terminal plug size 2/0 AWG
NSYEBP250	Terminal plug size 250 kcmil
NSYEBP400	Terminal plug size 400 kcmil
NSYEBP500	Terminal plug size 500 kcmil