

Heavy-duty safety switches With alternate lug options



More connections than ever before



DH361FGK-00LA

Safety switches have historically provided very few options when it comes to custom or optional lugs. This can pose a problem for contractors or end-users when applications require oversized or multiple conductors.

Eaton's Switching Device Flex Center is proud to introduce a line of UL®-listed, heavy-duty safety switches with alternate lug configurations. These switches are offered as a factory-installed solution that is ready to go out of the box.

Features and benefits

- Available in 30–600 A ratings
- Fusible and non-fusible configurations, in two- and three-pole
- NEMA® 1, 3R, 12, 4 and 4X enclosures
- Enclosures meet wire bend codes and standards
- Modifications are available such as custom paint, lock-on provisions, voltage indicators and more. For more information, contact the Flex Center at 1-888-329-9272 or FlexSwitches@eaton.com

UL certifications

- UL 98 Standard, File No. E5239



(Left to right) Standard 600 A lug, Standard 800 A / 1200 A lug, -00LB alternate lug, standard 400 A lug



-00LA Alternate lug installed

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Technical specifications

Standard lug capacities

Description ❶	Minimum wire size	Maximum wire size	Wire type
30 A DP	#14 #12	#10 #10	Cu or Al ❷
30 A DG	#14	#6	Cu/Al
30 A DH, DT	#14	#2	Cu/Al
60 A DG	#14	#1/0	Cu/Al
60 A DH, DT	#14	#2	Cu/Al
100 A DG ❸	#14	#1/0	Cu/Al
100 A DH, DT	#14	#1/0	Cu/Al
200 A DG, DT	#6	250 kcmil	Cu/Al
200 A DH Type 1 and 3R	#6	250 kcmil	Cu/Al
200 A DH Type 4X and 12	#6	300 kcmil	Cu/Al
400 A DG, DH, DT	(2) #1/0 (1) #1/0	(2) 300 kcmil (1) 750 kcmil	Cu/Al or Cu/Al ❷
600 A DG, DH	(1) #2 (1) #1/0	(1) 600 kcmil (1) 750 kcmil	Cu/Al and Cu/Al ❹
600 A non-fusible DT	(2) 250	(2) 500 kcmil	Cu/Al
800 A DH	(4) #1/0	(4) 750 kcmil	Cu/Al
800 A DT, 600 A fusible DT	(3) #250	(3) 500 kcmil	Cu/Al
1200 A DH, DT	(4) #1/0	(4) 750 kcmil	Cu/Al
Copper-bodied lugs ❺			
30 A Cu	#14	#6	Cu
60 A Cu	#14	#4	Cu
100 A Cu	#6	#1/0	Cu
200 A Cu	#6	250 kcmil	Cu
400 A Cu Type 4, 4X and 12	#1/0	500 kcmil	Cu
600–800 A Cu Type 4, 4X and 12	(2) #1/0	(2) 500 kcmil	Cu

Alternate lug capacities ❻

Description	Minimum wire size	Maximum wire size	Wire type	Catalog number suffix	Line/load ❼
30 A, 60 A, 100 A DH fusible	(3) #14	(3) #2	Cu/Al	"-00LA" ❸	
30 A, 60 A, 100 A DH	(3) #14	(3) #2	Cu/Al	"-LALN" ❸	Line lugs only
30 A, 60 A, 100 A DH fusible	(3) #14	(3) #2	Cu/Al	"-LALD" ❸	Line lugs only
30 A, 60 A, 100 A DH fusible	(2) #14	(2) #2/0	Cu/Al	"-00LB" ❸	
30 A, 60 A, 100 A DH	(2) #14	(2) #2/0	Cu/Al	"-LBLN" ❸	Line lugs only
30 A, 60 A, 100 A DH fusible	(2) #14	(2) #2/0	Cu/Al	"-LBLD" ❸	Line lugs only
30 A, 60 A DH	#14	#1/0	Cu/Al	"-LSE3" ❹	
100 A DH Type 1 and 3R	#6	250 kcmil	Cu/Al	"-LSE4" ❹	
100 A DH Type 4X and 12	#6	300 kcmil	Cu/Al	"-LSE4" ❹	
200 A DH	(2) #1/0 (1) #1/0	(2) 300 kcmil (1) 750 kcmil	Cu/Al or Cu/Al ❷	"-LSE5" ❺	
400 A DH	(1) #2 (1) #1/0	(1) 600 kcmil (1) 750 kcmil	Cu/Al and Cu/Al ❹	"-LSE6" ❻	
600 A DH	(4) #1/0	(4) 750 kcmil	Cu/Al	"-LSE7" ❼	

❶ DP = General Duty Plug Fuse
 DG = General Duty
 DH = Heavy Duty
 DT = Double Throw

❷ Single barrel lug that accepts one or two cables per phase as detailed above.

❸ The maximum size aluminum or copper-clad aluminum wire allowable for applications where the conductor enters or leaves the enclosure through the wall opposite its terminal is #1 gauge.

❹ Double barrel lug that accepts two cables per phase as detailed above.

❺ No copper-bodied lugs are available for 1200 A switches. No copper-bodied lugs are available for larger than 500 kcmil cables. No copper-bodied lugs are available for 400–800 A NEMA 1 or NEMA 3R switches.

❻ Alternate lugs are available as factory-installed options only, through the Switching Device Flex Center. Field kits are not available.

❼ The alternate lugs will be provided on both line and load side, unless otherwise noted.

❸ Uses the 100 A switch enclosure and dimensions.

❹ Uses the 200 A switch enclosure and dimensions.

❺ Uses the 400 A switch enclosure and dimensions.

❻ Uses the 600 A switch enclosure and dimensions.

❼ Uses the 800 A switch enclosure and dimensions.

Note: Although certain lug capacities are larger than required, only minimum wire bending space is provided per the requirements noted in NEC® Tables 373.6 (a) and (b) for respective ampere ratings.

Note: A factory-installed ground lug is supplied in all heavy-duty safety switches.

Standard ground lug capacities

Description	Minimum wire size	Maximum wire size	Wire type
30 A, 60 A, 100 A DG	#14	#4	Cu/Al
200 A DG	(2) #14	(2) #2	Cu/Al
400 A, 600 A DG	(2) #6	(2) 250 kcmil	Cu/Al
30 A, 60 A, 100 A DH	#14	#4	Cu/Al
200 A DH Type 1 and 3R	(2) #14	(2) #2	Cu/Al
200 A DH Type 4X and 12	#14	#4	Cu/Al
400 A, 600 A, 800 A, 1200 A DH	(2) #6	(2) 250 kcmil	Cu/Al
30 A, 60 A, 100 A DT	(3) #14	(3) #2	Cu/Al
200 A DT	(3) #14	(3) #2	Cu/Al
400 A DT	(3) #6	(3) 250 kcmil	Cu/Al
600 A, 800 A, 1200 A DT	(4) #6	(4) 250 kcmil	Cu/Al

Neutral kit lug capacities

Neutral kit	Minimum wire size	Maximum wire size	Wire type
DG030NB	(2) #14	(2) #4	Cu/Al
DG100NB	(3) #14	(3) #1/0	Cu/Al
DG200NK	(2) #14 (2) #6	(2) #2 (2) 250 kcmil	Cu/Al
DH030NK	(4) #14	(4) #2	Cu/Al
DH100NK	(2) #14 (2) #14	(2) #2 (2) #1/0	Cu/Al
DH200NK	(2) #14 (2) #6	(2) #2 (2) 300 kcmil	Cu/Al
DS400NK	(2) #1/0 (4) #2 (3) #6	(2) 750 kcmil or (4) 300 kcmil (3) 250 kcmil	Cu/Al
DS600NK	(2) #1/0 (2) #2 (3) #6	(2) 750 kcmil (2) 600 kcmil (3) 250 kcmil	Cu/Al
DS800NK	(8) #1/0 (3) #6	(8) 750 kcmil (3) 250 kcmil	Cu/Al
DT100NK	#14 (3) #14	#2 (3) #1/0	Cu/Al
DT200NK	#14 (3) #6	#2 (3) 250 kcmil	Cu/Al
DT400NK	(7) #6	(7) 250 kcmil	Cu/Al
DT600NK	#6 (6) 250 kcmil	250 kcmil (6) 500 kcmil	Cu/Al
DT800NK	(2) #6 (9) 250 kcmil	(2) 250 kcmil (9) 500 kcmil	Cu/Al
DT1200NK	(3) #6 (12) #1/0	(3) 250 kcmil (12) 750 kcmil	Cu/Al

Additional grounding (Suffix "G") lug capacities ①

Description	Minimum wire size	Maximum wire size	Wire type
30 A, 60 A, 100 A DG	(7) #14	(7) #4	Cu/Al
200 A DG	(3) #14	(3) #2	Cu/Al
400 A, 600 A DG	(4) #6	(4) 250 kcmil	Cu/Al
30 A, 60 A, 100 A DH	(7) #14	(7) #4	Cu/Al
200 A DH Type 1 and 3R	(3) #14	(3) #2	Cu/Al
200 A DH Type 4X and 12	(2) #14	(2) #2	Cu/Al
400 A, 600 A, 800 A, 1200 A DH	(4) #6	(4) 250 kcmil	Cu/Al
30 A, 60 A, 100 A DT	(7) #14	(7) #4	Cu/Al
200 A DT	(5) #14	(5) #2	Cu/Al
400 A DT	(6) #6	(6) 250 kcmil	Cu/Al
600 A, 800 A, 1200 A DT	(6) #6	(6) 250 kcmil	Cu/Al

① Additional grounding is available as a factory modification, through the Switching Device Flex Center. Add Suffix "G" to the end of switch catalog number.

Ground lug kit capacities

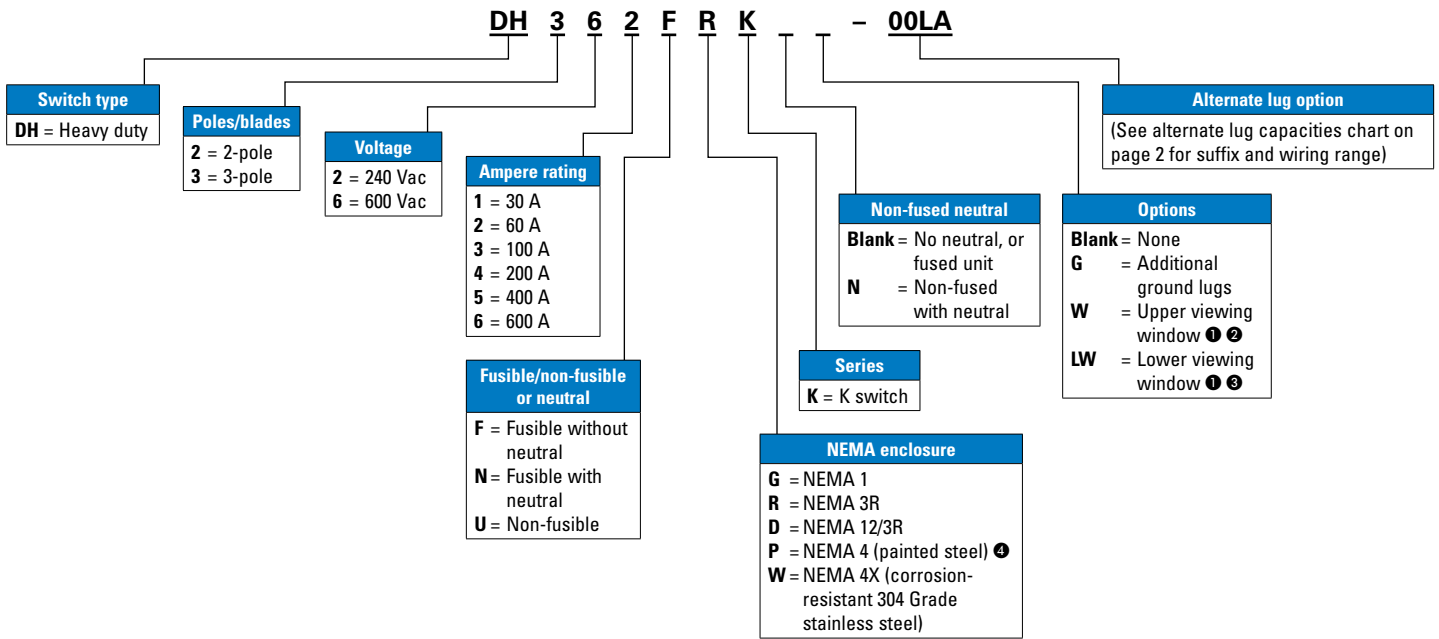
Ground lug kit	Minimum wire size	Maximum wire size	Wire type
DG030GB	#14	#4	Cu/Al
DS100GK	(7) #14	(7) #4	Cu/Al
DS200GK	(2) #14	(2) #2	Cu/Al
DS468GK	(2) #6	(2) 250 kcmil	Cu/Al



DS200GK



DH030NK



- ① Viewing windows are only available for NEMA 12/3R and NEMA 4X enclosures.
- ② Centered over the blades for ON/OFF status verification. 30–100 A window switches only require an upper viewing window to see both blades and fuses.
- ③ Centered over the fuses, to see blown fuse indicators (provided with fuses, by others). If needed for 30–100 A, use just the W suffix.
- ④ Not available for 30–200 A.



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