Heavy-Duty Safety Switch



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Heavy-Duty

Product Description

- 30–1200A
- 600 Vac, 600 Vdc maximum
- Horsepower rated
- Fusible and non-fusible switches are 100% load break and 100% load make rated
- The continuous load current of fusible switches is not to exceed 80% of the rating of fuses employed in other than motor circuits. Non-fusible switches are 100% fully rated
- Suitable for service entrance applications unless otherwise noted
- For factory modifications, refer to Pages V2-T1-16 through V2-T1-19

Application Description

For heavy commercial and industrial applications where reliable performance and service continuity are critical.

For the toughest heavy commercial and industrial applications, refer to **Page V2-T1-76** for catalog information on our mill-duty safety switch

Features, Benefits and Functions

- Deionizing arc chutes; arc chutes confine and suppress the arcs produced by opening contacts under load
- Mechanically interlocked cover to prevent easy access when the switch is in the ON position
- Clearly visible palm fitting red handle
- Complete accessory and renewal parts data shown on inner door label.
- 30–800A NEMA 12 designs convertible to NEMA 3R by opening factory-installed drain hole
- 30–1200A switches are seismic qualified and exceed the requirements of the Uniform Building Code® (UBC) and California Code Title 24
- Tri-lingual nameplates



Visible Double-Break Rotary Blade Mechanism

 Two points of contact provide a positive open and close, easier operation, and also help prevent contact burning for longer contact life



Clear Line Shield

 Protects against accidental contact with energized parts. Probe holes enable the user to test if the line side is energized without removing the shield.
Not typically provided on general-duty switches, but available as a field kit or factory installed



Built-In Fuse Pullers (NEMA 12 and 4X 30–200A Only)

 Provide easy removal of fuses



Clearly Visible Handle

 The position (ON or OFF) can be clearly seen from a distance and the length provides for easy operation



Triple Padlocking Capability

 Personnel safety feature because the large hasp can accommodate up to three 3/8-inch (9.5 mm) shank locks



Additional Locking Capability

 Cabinet door can be further padlocked at the top and bottom as applicable



Interlocking Mechanism

 Door cannot be opened when the handle is in the ON position. Front and side operable defeater mechanism provides for user access when necessary on singlethrow switches



Tangential Knockouts

 An ample number are provided on the top, bottom and sides of both NEMA Types 1 and 3R enclosures through 200A



Bolt-On Hub Kits

 For switches in a NEMA Type 3R, 30–200A. Use a Myers type hub for all others

Standards and Certifications

- UL listed File No. E5239
- Meets UL 98 for enclosed switches and NEMA Std. KS-1



Product Selection

DH221NRK

240 Vac Heavy-Duty, Fusible, Single-Throw, Fusible—NEMA 1, 3R



System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings AC					NEMA 1 Enclosure Indoor	NEMA 3R Enclosure
			Standard Fuse Single-Phase	Three-Phase	Time Delay Single-Phase	Three-Phase	DC 250V	Catalog Number	Rainproof Catalog Number
wo-Pole – 240	Vac, 250	Vdc (Suitab	ole for Service E	ntrance Use wi	ith a Neutral Kit	Installed)			
	30	Н	1-1/2	_	_	_	5	DH221FGK	2
	60	_	_	_	_	_	_	2	2
	100	_	_	_	_	_	_	2	2
	200	_	_	_	_	_	_	2	2
	400	Н	_	50 ^①	_	125 ^①	50	DH225FGK	DH225FRK
	600	Н	_	75 ^①	_	200 ^①	_	DH226FGK	DH226FRK
	800	L	_	100 ^①	_	_	_	DH227FGK	_
hree-Wire (Tv	vo Blades,	Two Fuses	, S/N)-240 Vac	, 250 Vdc					
N/S	30	Н	1-1/2	3 ③	3	7-1/2 ③	5	DH221NGK	DH221NR
	60	Н	3	7-1/2 ③	10	15 ③	10	DH222NGK	DH222NRI
	100	Н	7-1/2	15③	15	30 ③	20	DH223NGK	DH223NRI
	200	Н	15	25 ③	15	60 ③	40	DH224NGK	DH224NRI
	400	Н	_	50 ®	_	125 ③	50	DH225NGK	DH225NRI
	600	Н	_	75 ^③	_	200 ③	_	DH226NGK	DH226NRI
	800	L	_	100 ③	_	_	_	DH227NGK	DH227NRI
hree-Pole – 2	40 Vac, 25	0 Vdc (Suita	able for Service	Entrance Use v	with a Neutral K	it Installed)			
0,000	30	Н	1-1/2	3	3	7-1/2	5	DH321FGK	DH321FRK
	60	Н	3	7-1/2	10	15	10	DH322FGK	DH322FRK
	100	Н	7-1/2	15	15	30	20	DH323FGK	DH323FRK
	200	Н	15	25	15	60	40	DH324FGK	DH324FRK
	400	Н	_	50	_	125	50	DH325FGK	DH325FRK
	600	Н	_	75	_	200	_	DH326FGK	DH326FRK
	800	L	_	100	_	_	_	DH327FGK	DH327FRK
	1200	L			_	_	_	DH328FGK	DH328FRK
our-Wire (Thr			es, S/N)-240 V	ac 250 Vdc				DIIOZOI GIX	Dilocornii
N/S	30	Н	1-1/2	3	3	7-1/2	5	DH321NGK	DH321NRI
	60	Н	3	7-1/2	10	15	10	DH322NGK	DH322NRI
	100	Н	7-1/2	15	15	30	20	DH323NGK	DH323NRI
	200	Н	15	25	15	60	40	DH324NGK	DH324NR
	400	H	_	50	_	125	50	DH325NGK	DH325NRF
	600	H	_	75		200		DH326NGK	DH326NRI
	800	L		100				DH327NGK	DH327NRF
	1200	<u>L</u>						DH327NGK	DH328NRI
our Polo 244			_			_		אוואסאפוועו	DIISZONKI
Four-Pole—240		Н	3	3	10	7 1/2	5	DH421FGK	4
	30				10	7-1/2		DH421FGK	4
	100	Н	7-1/2	7-1/2	20	15	10		4
	100	Н	15	15	30	30	20	DH423FGK	4
	200	Н	30	25	50	60	40	DH424FGK	4.5
	400	Н	50	50	_	125	50	DH425FGK	
	600	Н	_	75	_	200	_	DH426FGK	46

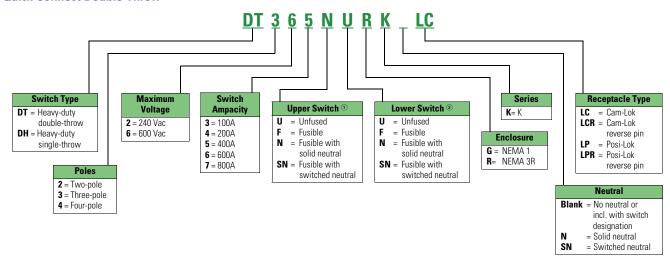
Notes

- $^{\scriptsize\textcircled{1}} \ \ \text{Horsepower ratings apply only when neutral is field installed and switch is used on a grounded B phase system.}$
- ② Use three-pole catalog numbers below.
- 3 Grounded B phase ratings, UL listed.
- Use NEMA 12. NEMA 12 enclosures (30–1200A) can be field modified to meet NEMA 3R rainproof requirements when a factory provided drain hole is opened.
- © Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.

30A heavy-duty switches with Type J fuse provisions are available from the factory only. See table on **Page V2-T1-18** for catalog numbers. Suitable for service entrance use, except four-pole switches.

Catalog Number Selection

Quick Connect Double-Throw



Notes

- ① When upper and lower switches are the same, the switch configuration is consolidated in one letter (e.g., "U" not "UU"). Also, a switch with a neutral will have either a solid neutral or a switched neutral, not both. Lastly, a switched neutral pole is never fused.
- ② This field is only used when a switch is completely non-fused.

This table is intended for use in breaking down existing catalog numbers. It is not intended for building new catalog numbers.