

Faster than Instantaneous arc flash protection

Reduced arc flash incident energy and enhanced peace of mind

Eaton's enclosed circuit breakers equipped with Arcflash Reduction Maintenance System™ technology can improve safety by providing a simple and reliable method to reduce fault clearing time.

Faster clearing time means less arc energy. Less arc energy exposure means improved worker safety.

Arcflash Reduction Maintenance System is designed for use only during the time a worker is exposed to a potential flash hazard; it is not activated or armed continuously. This feature provides the ability to maintain overcurrent coordination while improving arc flash safety when compared to solutions relying on permanently installed instantaneous trip settings.

The enclosed circuit breaker with Arcflash Reduction Maintenance System is a fully factory wired assembly, including an electronic trip circuit breaker, cover controls and other components that allow a customer to activate the Arcflash Reduction Maintenance System technology during maintenance. This maintenance mode is enabled by a simple lockable switch that can be incorporated into a lockout/tagout (LOTO) procedure.

The resulting reduction in incident energy levels can help reduce levels of required personal protection equipment (PPE), offering an improvement to worker comfort, mobility and productivity.

Features and benefits

NEC® 240.87 compliant

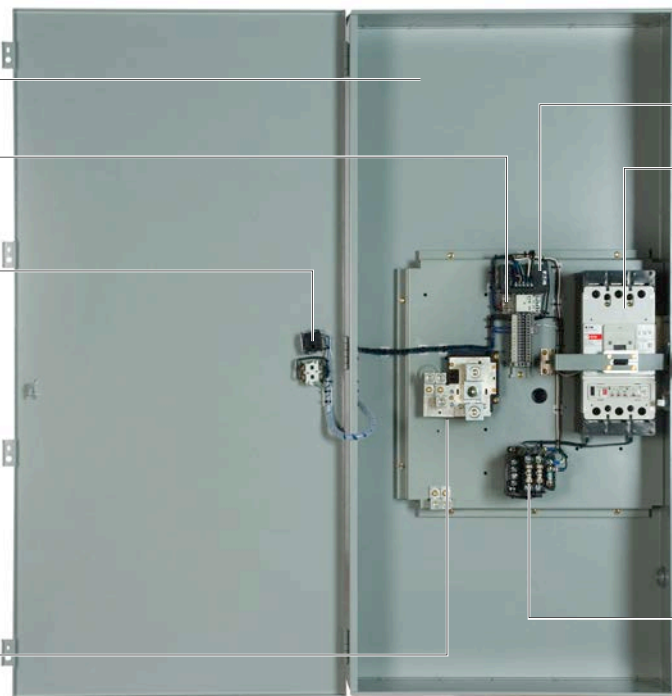
NEMA® Type 1, 3R, 12, 4, 4X enclosures

Additional control relay included to allow users to enable Arcflash Reduction Maintenance System via a remote input signal

Cover controls, including padlockable selector switch for Arcflash Reduction Maintenance System enabling and blue LED indication light



Neutral and CT sensor assembly



Assembly is fully factory wired and ready to go out of the box

48 W power supply

Digitrip™ 310+ trip unit with ALSI protection ❶

Three-position handle (ON/Tripped/OFF)



Padlockable in the OFF position ❷❸❹

100 VA CPT

Padlockable enclosure



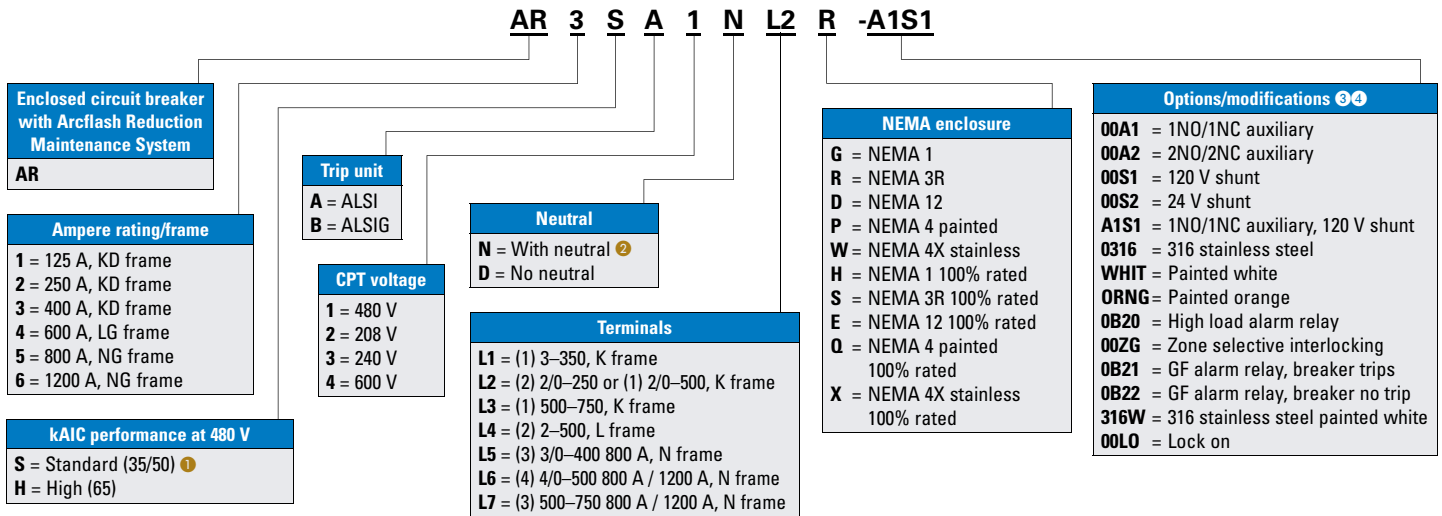
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- ❶ For ground fault applications, ALSIG protection is available.
- ❷ From the factory, the handle can only be locked in the OFF position and can accommodate a maximum of three padlocks.
- ❸ Field modification to drill the shroud can allow locking in the ON position. The breaker will trip as usual, even with the handle locked ON.
- ❹ Check with your local AHJ for requirements.

MODIFICATIONS

Additions are available such as custom paint, 316-stainless enclosures, lock-on provisions, and more. Call the Flex Center at 1-888-329-9272 for more information.

Catalog numbering system



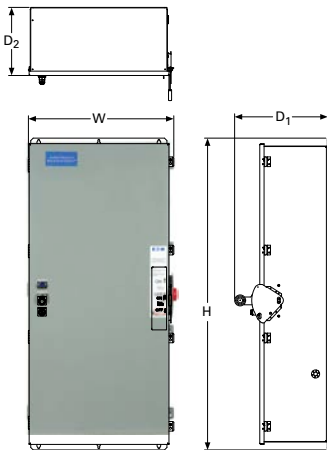
① Standard = 35 kAIC for KD and LG, 50 kAIC for NG.

② Neutral CTs are included for ground fault protected breakers (ALSIG option).

③ More combinations and options are available.

④ Breaker accessories (shunt, UVR, etc.) can be field installed. See molded case breaker catalog section for information regarding accessories and proper installation.

Technical specifications



Dimensions

Breaker frame	Maximum amperage	Height (H)	Width (W)	Depth (D1)	Depth (D2)
KD	400	53.63 (1362.2)	26.48 (672.6)	12.69 (322.3)	7.54 (191.5)
LG	600	53.63 (1362.2)	26.48 (672.6)	12.69 (322.3)	7.54 (191.5)
NG	1200	63.54 (1614.0)	29.63 (752.6)	18.99 (482.3)	13.87 (352.3)
K 100%	400	53.63 (1362.2)	26.48 (672.6)	12.69 (322.3)	7.54 (191.5)
LG 100%	600	53.63 (1362.2)	26.48 (672.6)	12.69 (322.3)	7.54 (191.5)
NG 100%	1200	①	①	①	①

① Contact the Switching Device Flex Center at 1-888-329-9272 or FlexSwitches@eaton.com for availability of this product.

Certifications

- UL®
- cUL®
- NEC



Short-circuit ratings

Breaker frame	kAIC ratings			Catalog numbers
	240 V	480 V	600 V	
KD	65	35	25	AR1S, AR2S, AR3S
HKD	100	65	35	AR1H, AR2H, AR3H
LGE	65	35	18	AR4S
LGH	100	65	35	AR4H
NGS	85	50	25	AR5S, AR6S
NGH	100	65	35	AR5H, AR6H

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