

Safety Switches

Technical Information

General Duty Switches; Prefix "G"

General duty switches are available in indoor TYPE 1 and outdoor TYPE 3R enclosures. Enclosures can be locked closed and operating handles can be locked "OFF". Series "G" switches have a quick-make, quick-break mechanism. Fusible switches are available in 1 pole S/N, 2 pole S/N and 3 pole S/N configurations. Non-fusible switches are available in 3 pole configurations. General duty switches are limited to 240V AC, 600 Amps max. rating.

All 30 Amp compact fusible and non-fusible "G" prefix switches are rated 10,000 Amp maximum withstand.

All 30–600 Amp "GF" and "GU" prefix switches are suitable for use on systems capable of delivering not more than 100,000 RMS symmetrical Amps of fault current with Class "R" fuses and the appropriate adapter kit installed. These 100–600 Amp "G" prefix switches may also be used on systems capable of delivering not more than 100,000 RMS symmetrical Amps of fault current with "T" fuses and the appropriate adapter kit installed. In addition, 100–600 general duty switches may also be used with J fuses on systems not capable of delivering more than 100,000 RMS symmetrical amperes of fault current. General duty switches are UL Listed for use as service equipment and are horsepower rated for use with motor loads.

General duty enclosed switches are used for light duty applications where loading and switching operations are not excessive.

Heavy Duty Switches, Single Throw; Prefix "H"

Heavy duty switches are available in indoor TYPE 1, outdoor TYPE 3R, Watertight Type 4/4X, and industrial TYPE 12 enclosures. Dual cover interlocks are provided, such that the door cannot be opened with the switch "ON" and the switch cannot be turned "ON" with the door open. A defeat mechanism allows servicing by authorized personnel. Handles may be locked "OFF" with up to 3 padlocks, and doors may be padlocked closed. Mechanism is "TEASE-PROOF" quick-make, quick-break. Fusible switches are available in 2 pole S/N, 3 pole and 3 pole S/N. Non-fusible switches are available in 3 pole.

Suitable for use on systems capable of delivering not more than 200,000 RMS symmetrical amperes of fault current when Class "J" or "R" fuses are installed except the 800 and 1200A switches, which are

suitable for use on circuits capable of delivering not more than 200,000 RMS symmetrical amperes of fault current when Class "L" fuses are installed. 100–1200A switches with Class "T" fuses and field adapter kit 200,000 RMS symmetrical rated.

Heavy duty switches are dual horsepower rated and are listed by UL for use as service entrance equipment.

Heavy duty switches are intended for applications where rugged construction, reliable performance, continuity of service and ease of maintenance are required.

Protector-Lock® Switches; Prefix "H"

The Murray Protector-Lock® switch is designed to eliminate shock hazard due to disconnecting heavy duty portable electrical equipment under load. When the switch is in the "ON" position, the safety bar blocks the self-contained receptacle and prevents insertion or removal of the plug. When the switch is "OFF", the bar retracts, allowing insertion or removal of the plug.

Protector-Lock® switches consist of a heavy duty, 30 or 60 Amp, 600V AC, 3 pole fusible or non-fusible enclosed switch, and either Crouse-Hinds® or Arrow Hart® Industrial receptacles.

Applications include industrial plants where portable conveyors and welders are used, and truck terminals where on-board refrigeration units require stand-by power.

Double Throw Switches; Prefix "HD"

Double throw switches are available in TYPE 1 and TYPE 3R enclosures. Covers are dual interlocked with the operating mechanism such that the cover cannot be opened when the switch is in either "ON" position, and the switch handle cannot be moved to either "ON" position if the cover is open. Handle may be padlocked in the "OFF" position. Switching action is quick-make, quick-break in both "ON" positions.

They are available in 30–600 Amp ratings, 240V AC, fusible and non-fusible, two and three pole.

Double throw switches are usually applied as transfer switches to switch a load from one power source to another, but can be field converted to switch one power source between two loads. Switching mechanism is located on line side of fuses allowing for a safer fuse replacement. All are suitable for use as service equipment.

Industry and Government Specifications

Murray enclosed switches meet or exceed the latest revision of the following specifications:

Industry

NEMA

Standard #KS-1-1990

UL-Standard #98

U.S. Government

HD single throw, prefix "H":

Standard #WS-865c type "HD"

HD double throw, prefix "HD":

Standard #WS865c type "NDD"

GD 60–600 Amp, prefix "G":

Standard #WS 865c type "ND";
except where interlock is required.

GD 30 Amp, prefix "G":

Standard #WS-865c type "ND";
except where interlock is required.

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