

ARC FLASH HAZARD PPE CATEGORIES – AC SYSTEMS

Equipment – AC Systems	Arc Flash PPE Category	Arc Flash Boundary
Panelboards or other equipment rated 240 Volts and below Parameters: Maximum of 25 kA short-circuit current available; maximum 0.03 sec (2 cycles) fault clearing time; working distance 18 inches	1	19 inches
Panelboards or other equipment rated > 240 volts and up to 600 volts Parameters: Maximum of 25 kA short-circuit current available; maximum 0.03 sec (2 cycles) fault clearing time; working distance 18 inches	2	3 ft.
600 V class motor control centers (MCCs) Parameters: Maximum of 65 kA short-circuit current available; maximum 0.03 sec (2 cycles) fault clearing time; working distance 18 inches	2	5 ft.
600 V class motor control centers (MCCs) Parameters: Maximum of 42 kA short-circuit current available; maximum 0.33 sec (20 cycles) fault clearing time; working distance 18 inches	4	14 ft.
600 V class switchgear (with power circuit breakers or fused switches) and 600 V class switchboards Parameters: Maximum of 35 kA short-circuit current available; maximum 0.5 sec (30 cycles) fault clearing time; working distance 18 inches	4	20 ft.
Other 600 V class (277 V through 600 V, nominal) equipment Parameters: Maximum of 65 kA short-circuit current available; maximum 0.03 sec (2 cycles) fault clearing time; working distance 18 inches	2	5 ft.
NEMA E2 (fused contactor) motor starters, 2.3 kV through 7.2 kV Parameters: Maximum of 35 kA short-circuit current available; maximum of up to 0.24 sec (15 cycles) fault clearing time; working distance 36 inches	4	40 ft.
Metal-clad switchgear, 1 kV through 15 kV Parameters: Maximum of 35 kA short-circuit current available; maximum of up to 0.24 sec (15 cycles) fault clearing time; working distance 36 inches	4	40 ft.
Arc resistant switchgear Type 1 or 2 (for clearing times of <0.5 sec (30 cycles) with a prospective fault current not to exceed the arc-resistant rating of the equipment), and metal enclosed interrupter switchgear, fused or unfused of arc-resistant-type construction, tested in accordance with IEEE C37.20.7. 1 kV through 15 kV	N/A (doors closed)	N/A (doors closed)
Parameters: Maximum of 35 kA short-circuit current available; maximum of up to 0.24 sec (15 cycles) fault clearing time; working distance 36 inches	4 (doors open)	40 ft.
Other equipment 1 kV through 15 kV Parameters: Maximum of 35 kA short-circuit current available; maximum of up to 0.24 sec (15 cycles) fault clearing time; working distance 36 inches	4	40 ft.