Generator Emergency Shutdown Switch Comparison
By Trusted Safety Solutions

Switch Requirements	Minimally Acceptable	Better TCERDirect	Best
NEC 445.19(A)(1) Be equipped with provisions to disable all prime mover start control circuits to render the prime mover incapable of starting	Any switch with a control circuit or pilot duty rating	Any switch with a control circuit or pilot duty rating	Any switch with a control circuit or pilot duty rating
NEC 445.19(A)(2) Initiate a shutdown mechanism that requires a mechanical reset	Ordinary pushbutton, mechanical reset inherent in circuit design	Locking or latching-type manual resettable pushbutton	Locking or latching-type manual resettable pushbutton
Construction	Nothing specific	Switch has a mushroom-shaped head so that it can be easily activated with the palm of a hand and the actuator is red in color so that it is easily identified Exposed plastic parts are UV-rated	Switch has a mushroom-shaped head so that it can be easily activated with the palm of a hand and the actuator is red in color so that it is easily identified Exposed plastic parts are UV-rated
Environmental Rating	**IP65 or equivalent UV-rated plastic parts if outdoors	**IP65/NEMA Type 3R/4/4X, UV-rated plastic parts	**UL Type 3R/4/4X
Markings	Generator Emergency Stop label	Generator Emergency Stop ring with yellow background	Generator Emergency Stop ring with yellow background
Certification	None	CE/CCC or VDE/TUV (Third-party)	UL
Compliance standard	Not identified	IEC/UL 60947-5-1	UL 60947-5-5

** If switch is mounted on the exterior of the structure and contained in an enclosure separate from the transfer switch, the enclosure should be constructed of UV rated material and IP65 (or better) rated