

Appendix

GLOSSARY

DSCC	Defense Supply Center Columbus. Organization that provides information and recommendations to contractors on commonality and selection of parts, and to manufacturers for qualification of the parts.
DSCC Drawing	This is a drawing created by DSCC for parts manufactured to a military specification but are not yet qualified to that specification. These parts may be used in military programs until a slash sheet is created and parts are qualified to the military specification.
MIL-PRF-28750	General specification for solid-state relays. This military specification covers the design, construction, manufacture, performance, test, and screening of military solid-state relays. Relays qualified to this specification are JAN branded and are suitable for all military programs.
Relay, Solid-State (SSR)	A relay with isolated input and output whose functions are achieved by means of electronic components without moving parts.
Relay, Zero-Voltage Turn-On	A relay with isolated input and output in which added control circuitry delays the output turn-on until the zero-voltage transition of the AC sine wave.
Short-Circuit Protection	A feature incorporated into the output circuit of a solid-state relay to protect the relay and circuitry against a shorted load. The relay output will turn-off should a short occur. The output can be reset from the control.
Status, Switch	Indicates the state of the output. It operates independently of the control/bias and will return a status as long as load voltage and load circuit continuity exists. It is generated from the load supply and creates an offstate leakage from 600 μ A to 2 mA.
Status, Flow	Indicates whether there is load current flowing. It operates only when the output is conducting and has a threshold of 10% to 20% of the maximum rated output current. It does not create an OFF-state leakage, but only operates when the output circuit is conducting.
Status, Trip	This type of status is only applicable for short-circuit protected relays. It provides an indication when the short-circuit protection has been activated and the output has tripped off. It does not indicate the normal state of the output.
Status, Control	This type of status provides an indication of control circuit continuity. It is analogous to the second set of contacts of a double-pole electromechanical relay. It does provide much higher output drive capability than the other types of status outputs.