

Appendix

Selection of devices for isolation and switching

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
Table 537.4

▼ **Table J1** Guidance on the selection of protective, isolation and switching devices, reproduced from BS 7671

Device	Standard	Isolation ⁽⁴⁾	Emergency switching ⁽²⁾	Functional switching ⁽⁵⁾
Switching device	BS EN 50428	No	No	Yes
	BS EN 60669-1	No	Yes	Yes
	BS EN 60669-2-1	No	No	Yes
	BS EN 60669-2-2	No	Yes	Yes
	BS EN 60669-2-3	No	Yes	Yes
	BS EN 60669-2-4	Yes ⁽³⁾	Yes	Yes
	BS EN 60947-3	Yes ^(1,3)	Yes	Yes
	BS EN 60947-5-1	No	Yes	Yes
Contactor	BS EN 60947-4-1	Yes ^(1,3)	Yes	Yes
	BS EN 61095	No	No	Yes
Circuit-breaker	BS EN 60898	Yes ⁽³⁾	Yes	Yes
	BS EN 60947-2	Yes ^(1,3)	Yes	Yes
	BS EN 61009-1	Yes ⁽³⁾	Yes	Yes
RCD	BS EN 60947-2	Yes ^(1,3)	Yes	Yes
	BS EN 61008 series	Yes ⁽³⁾	Yes	Yes
	BS EN 61009 series	Yes ⁽³⁾	Yes	Yes
Isolating switch	BS EN 60669-2-4	Yes ⁽³⁾	Yes	Yes
	BS EN 60947-3	Yes ^(1,3)	Yes	Yes
Plug and socket-outlet (≤ 32 A)	BS EN 60309	Yes ⁽³⁾	No	Yes
Plug and socket-outlet (> 32 A)	BS EN 60309	Yes ⁽³⁾	No	No

Device	Standard	Isolation ⁽⁴⁾	Emergency switching ⁽²⁾	Functional switching ⁽⁵⁾
Device for the connection of luminaire	BS EN 61995-1	Yes ⁽³⁾	No	No
Control and protective switching device for equipment (CPS)	BS EN 60947-6-1	Yes ^(1,3)	Yes	Yes
	BS EN 60947-6-2	Yes ^(1,3)	Yes	Yes
Fuse	BS 88 series	Yes	No	No
Device with semiconductors	BS EN 50428	No	No	Yes
	BS EN 60669-2-1	No	No	Yes
Luminaire Supporting Coupler	BS 6972	Yes ⁽³⁾	No	No
Plug and unswitched socket-outlet	BS 1363-1	Yes ⁽³⁾	No	Yes
	BS 1363-2	Yes ⁽³⁾	No	Yes
Plug and switched socket-outlet	BS 1363-1	Yes ⁽³⁾	No	Yes
	BS 1363-2	Yes ⁽³⁾	No	Yes
Plug and socket-outlet	BS 5733	Yes ⁽³⁾	No	Yes
Switched fused connection unit	BS 1363-4	Yes ⁽³⁾	Yes	Yes
Unswitched fused connection unit	BS 1363-4	Yes ⁽³⁾ (Removal of fuse link)	No	No
Fuse	BS 1362	Yes	No	No
Cooker Control Unit switch	BS 4177	Yes ⁽³⁾	Yes	Yes

Yes = Function provided, No = Function not provided


(1) Function provided if the device is suitable and marked with the symbol for isolation (see IEC 60617 identity number S00288) 

(2) See Regulation 537.3.3.6.

(3) Device is suitable for on-load isolation, i.e. disconnection whilst carrying load current.

(4) In an installation forming part of a TT or IT system, isolation requires disconnection of all the live conductors. See Regulation 462.2

(5) Circuit-breakers and RCDs are primarily circuit protective devices and, as such, they are not intended for frequent load switching. Infrequent switching of circuit-breakers on-load is admissible for the purposes of isolation or emergency switching. For a more frequent duty, the number of operations and load characteristics according to the manufacturer's instructions should be taken into account or an alternative device from those listed as suitable for functional switching in Table 537.4 should be employed.

Note 1: An entry of (1,3) means that the device is suitable for on-load isolation only if it is marked with the symbol for **on-load** isolation 

Note 2: In the above table, the functions provided by the devices for isolation and switching are summarized, together with an indication of the relevant product standards.

537.3.3.6

462.2