

Motor Protection Circuit Breaker Cross-Reference — Schneider TeSys GV2 / GV3, Siemens SIRIUS 3RV2, Eaton PKZM0 / PKZM4, ABB MS116 / MS132 / MS165 by Setting Range

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A motor protection circuit breaker combines short-circuit protection, adjustable thermal overload protection and manual switching in one unit. Selection is by the current setting range, which must contain the motor full-load current, and by the frame size, which sets the maximum rating and the accessories (auxiliary contacts, undervoltage release, enclosures). Ranges follow the same 1.6 : 1 steps across makers — 0.1–0.16 A up to 25–32 A in the small frames (Schneider GV2ME/GV2P, Siemens 3RV2011 S00 and 3RV2021 S0, Eaton PKZM0, ABB MS116/MS132) and 9–13 A up to 62–73 A in the medium frames (GV3P, 3RV2031/2041, PKZM4, MS165). The table lists the catalogue by upper setting current with one column per make; the exact range of each device is given on its product page.

Upper setting current	Schneider Electric	Siemens	Eaton	ABB
up to 1 A · up to 0.16 A	GV2ME01, GV2P01, GV2ME01A, GV2ME013	3RV2011-0AA10, 3RV2011-0AA20, 3RV2411-0AA10, 3RV2111-0AA10, 3RV2411-0AA20	PKZM0-0,16-PI, PKZM0-0,16-SPI16, PKZM0-0,16-SPI32, PKZM0-0,16-T-PI, PKZM0-0,16-T	1SAM350000R1001, MS116-0.16, 1SAM340000R1001, MS132-0.16
up to 1 A · up to 0.2 A	—	3RV2411-0BA10, 3RV2011-0BA20, 3RV2011-0BA10, 3RV2411-0BA20, 3RV2111-0BA10	—	—
up to 1 A · up to 0.25 A	GV2ME02, GV2P02, GV2ME02A, GV2ME023	3RV2411-0CA20, 3RV2011-0CA20, 3RV2011-0CA10, 3RV2411-0CA10, 3RV2111-0CA10	PKZM0-0,25, PKZM0-0,25-T, PKZM0-0,25-T-PI, PKZM0-0,25-PI, PKZM0-0,25-SPI32	1SAM350000R1002, MS116-0.25, 1SAM340000R1002, MS132-0.25
up to 1 A · up to 0.32 A	—	3RV2011-0DA10, 3RV2411-0DA10, 3RV2411-0DA20, 3RV2011-0DA20, 3RV2111-0DA10	—	—
up to 1 A · up to 0.4 A	GV2ME03, GV2P03, GV2RT03, GV2L03, GV2ME03A	3RV2011-0EA10, 3RV2411-0EA10, 3RV2011-0EA20, 3RV2111-0EA10, 3RV2411-0EA20	PKZM0-0,4, PKZM0-0,4-SPI32, PKZM0-0,4-SPI16, PKZM0-0,4-PI, PKZM0-0,4-T	1SAM350000R1003, MS132-0.4T, MS116-0.4, MS132-0.4
up to 1 A · up to 0.5 A	—	3RV2011-0FA10, 3RV2011-0FA20, 3RV2411-0FA10, 3RV2411-0FA20, 3RV2111-0FA10	—	—
up to 1 A · up to 0.63 A	GV2ME04, GV2P04, GV2RT04, GV2L04, GV2ME04A	3RV2011-0GA10, 3RV2411-0GA10, 3RV2011-0GA20, 3RV2411-0GA20, 3RV2111-0GA10	PKZM0-0,63, PKZM0-0,63-PI, PKZM0-0,63-SPI16, PKZM0-0,63-SPI32, PKZM0-0,63-T	1SAM350000R1004, MS116-0.63, MS132-0.63T, MS132-0.63
up to 1 A · up to 0.8 A	—	3RV2011-0HA10, 3RV2411-0HA10, 3RV2011-0HA20, 3RV2411-0HA20, 3RV2111-0HA10	—	—
up to 1 A · up to 1 A	GV2ME05, GV2P05, GV2RT05, GV2L05, GV2ME05A	3RV2011-0JA10, 3RV2011-0JA20, 3RV2411-0JA10, 3RV2411-0JA20, 3RV2111-0JA10	PKZM0-1, PKZM0-1-PI, PKZM0-1-SPI16, PKZM0-1-SPI32, PKZM0-1-T-PI	1SAM350000R1005, MS132-1.6T, MS132-1.0T, MS116-1.0
1 – 6.3 A · up to 1.25 A	—	3RV2011-0KA10, 3RV2011-0KA20, 3RV2411-0KA10, 3RV2411-0KA20, 3RV2111-0KA10	—	—
1 – 6.3 A · up to 1.6 A	GV2ME06, GV2RT06, GV2P06, GV2ME06A, GV2L06	3RV2011-1AA10, 3RV1011-1AA10, 3RV2011-1AA20, 3RV2411-1AA20, 3RV2411-1AA10	PKZM0-1,6, PKZM01-1,6, PKZM0-1,6-SPI32, PKZM0-1,6-SPI16, PKZM0-1,6-T	1SAM350000R1006, MS116-1.6
1 – 6.3 A · up to 2 A	—	3RV2011-1BA10, 3RV2011-1BA20, 3RV2111-1BA10, 3RV2411-1BA10, 3RV2411-1BA20	—	—
1 – 6.3 A · up to 2.5 A	GV2ME07, GV2P07, GV2ME073, GV2RT07, GV2L07	3RV2011-1CA10, 3RV2011-1CA20, 3RV2411-1CA20, 3RV2111-1CA10, 3RV2411-1CA10	PKZM0-2,5-PI, PKZM0-2,5-SPI32, PKZM0-2,5-SPI16, PKZM01-2,5	1SAM350000R1007, MS116-2.5

1 – 6.3 A · up to 3.2 A	—	3RV2011-1DA10, 3RV1011-1DA10, 3RV2411-1DA10, 3RV2011-1DA20, 3RV2411-1DA20	—	—
1 – 6.3 A · up to 4 A	GV2ME08, GV2L08, GV2ME083, GV2P08, GV2RT08	3RV2011-1EA10, 3RV2011-1EA20, 3RV2411-1EA20, 3RV2411-1EA10, 3RV2111-1EA10	PKZM01-4, PKZM0-4-PI, PKZM0-4-SPI16, PKZM0-4-SPI32, PKZM0-4-T-PI	1SAM350000R1008, MS116-4.0, MS132-4.0, MS132-4.0T
1 – 6.3 A · up to 5 A	—	3RV2011-1FA10, 3RV2011-1FA20, 3RV2111-1FA10, 3RV2411-1FA20, 3RV2411-1FA10	—	—
1 – 6.3 A · up to 6.3 A	GV2ME10, GV2P10, GV2L10, GV2RT10, GV2ME103	3RV2011-1GA10, 3RV2411-1GA10, 3RV2011-1GA15, 3RV2011-1GA20, 3RV2411-1GA20	PKZM0-6,3, PKZM01-6,3, PKZM0-6,3-PI, PKZM0-6,3-SPI32, PKZM0-6,3-SPI16	1SAM350000R1009, MS132-6.3, MS116-6.3, MS132-6.3T
6.3 – 16 A · up to 8 A	—	3RV2011-1HA10, 3RV2011-1HA20, 3RV2411-1HA20, 3RV2111-1HA10, 3RV2411-1HA10	—	—
6.3 – 16 A · up to 10 A	GV2ME14, GV2P14, GV2L14, GV2RT14, GV2ME143	3RV2011-1JA10, 3RV2011-1JA20, 3RV2111-1JA10, 3RV2411-1JA20, 3RV2411-1JA10	PKZM01-10, PKZM0-10-PI, PKZM0-10-T-PI, PKZM0-10-SPI16, PKZM0-10-SPI32	1SAM350000R1010, MS132-10, 2122740136
6.3 – 16 A · up to 12 A	—	3RV2011-1KA10-V2	PKE12/XTU-12, PKZM0-12, PKZM0-12-PI, PKZM0-12-T-PI, PKZM0-12-SPI16	1SAM350000R1012, MS116-12, MS132-12
6.3 – 16 A · up to 12.5 A	—	3RV2011-1KA10, 3RV2011-1KA20, 3RV2411-1KA10, 3RV2111-1KA10, 3RV2411-1KA20	—	—
6.3 – 16 A · up to 13 A	GV3P13	—	—	—
6.3 – 16 A · up to 14 A	GV2ME16, GV2P16, GV2L16, GV2RT16, GV2ME16A	—	—	—
6.3 – 16 A · up to 16 A	—	3RV2011-4AA10, 3RV2021-4AA10, 3RV2011-4AA20, 3RV2021-4AA20, 3RV2411-4AA10	PKZM0-16-PI, PKZM0-16-T-PI	1SAM350000R1011, 1SAM451000R1011, MS132-16, MS165-20, 2122740149
16 – 32 A · up to 18 A	GV2ME20, GV2P20, GV2L20, GV3P18, GV2ME20A	—	—	—
16 – 32 A · up to 20 A	—	3RV2021-4BA10, 3RV2021-4BA20, 3RV2421-4BA10, 3RV2421-4BA20, 3RV2121-4BA10	PKZM0-20, PKZM0-20-SPI32, PKZM0-20-PI, PKZM0-20-T-PI, PKZM0-20-T	1SAM451000R1012, 1SAM350000R1013, MS132-20, MS165-25, MS116-20
16 – 32 A · up to 22 A	—	3RV2021-4CA10, 3RV2021-4CA20, 3RV2421-4CA20, 3RV2421-4CA10, 3RV2121-4CA10	—	—
16 – 32 A · up to 23 A	GV2ME21, GV2P21, GV2RT21, GV2ME21A, GV2ME213	—	—	—
16 – 32 A · up to 25 A	GV2ME22, GV2P22, GV2L22, GV3P25, GV2ME22A	3RV2021-4DA10, 3RV2031-4DB15, 3RV2421-4DA10, 3RV2021-4DA20, 3RV2421-4DA20	PKZM4-25, PKZM0-25-T-PI, PKZM0-25-T	1SAM350000R1014, 1SAM451000R1013, MS132-25, MS165-32
16 – 32 A · up to 28 A	—	3RV2021-4NA10, 3RV2121-4NA10	—	—
16 – 32 A · up to 32 A	GV2ME32, GV2P32, GV2L32, GV3P32, GV2ME32A	3RV2021-4EA10, 3RV2021-4EA20, 3RV2121-4EA10	PKZM4-32, PKE32/XTU-32, PKZM0-32-PI, PKZM0-32-SPI32, PKZM0-32	1SAM350000R1015, 1SAM451000R1014, MS132-32, MS116-32, MS165-42
32 – 100 A · up to 40 A	GV3P40	3RV2021-4FA10, 3RV2031-4UA15, 3RV2042-4FA10	PKZM4-40	—
32 – 100 A · up to 42 A	—	—	—	1SAM451000R1015, MS165-54
32 – 100 A · up to 50 A	GV3P50	—	—	—
32 – 100 A · up to 54 A	—	—	—	1SAM451000R1016, MS165-65

32 – 100 A · up to 58 A	—	—	PKZM4-58	—
32 – 100 A · up to 59 A	—	3RV2031-4XA10	—	—
32 – 100 A · up to 63 A	—	—	PKZM4-63	—
32 – 100 A · up to 65 A	GV3P65	3RV2031-4JA15	—	1SAM451000R1017, AF140-30-00-33 100-250V 50/60Hz / DC
32 – 100 A · up to 73 A	GV3P736, GV3P73, GV3P731	—	—	1SAM451000R1018
32 – 100 A · up to 75 A	—	3RV2042-4KA10	—	—
32 – 100 A · up to 80 A	GV3P80	3RV2031-4RA10	—	1SAM451000R1019, MS165-80
32 – 100 A · up to 84 A	—	3RV2042-4RA10	—	—
32 – 100 A · up to 100 A	—	3RV2041-4MA10	—	—

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