

Overload Relay Cross-Reference — Siemens 3RU/3RB, Schneider TeSys LRD, ABB TF, Eaton ZB by Setting Range

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An overload relay is chosen by its current setting range (the motor full-load current must sit inside the range, ideally in the upper half), its trip class (Class 10 standard, 10A, 20 or 30 for heavy starting) and the contactor it mounts on. The table groups the catalogue by setting range so the equivalent Siemens 3RU2 (thermal) or 3RB3 (electronic), Schneider TeSys LRD, ABB TF42/TF65/TF96 or Eaton ZB12/ZB32/ZB65/ZB150 relay can be located. Setting ranges are quoted as in the manufacturer designation.

Setting range	Siemens	Schneider Electric	ABB	Eaton
up to 12 A · 0.1–0.13 A	—	—	TF42-0.13	—
up to 12 A · 0.1–0.16 A	—	LRD01, LRE01	—	ZBT12-0,16
up to 12 A · 0.1–0.32 A	—	—	EF19-0.32	—
up to 12 A · 0.1–0.4 A	3RB3123-4RE0, 3RB3113-4RE0, 3RB3016-2RE0, 3RB3016-1RB0, 3RB3026-2RE0, 3RB3016-1RE0	—	—	—
up to 12 A · 0.1–0.5 A	—	LR9D01	—	—
up to 12 A · 0.11–0.16 A	3RU2116-0AB1, 3RU2116-0AB0, 3RU2116-0AC0, 3RU2116-0AC1	—	—	—
up to 12 A · 0.13–0.17 A	—	—	TF42-0.17	—
up to 12 A · 0.14–0.2 A	3RU2116-0BB0, 3RU2116-0BB1, 3RU2116-0BC1, 3RU2116-0BC0	—	—	—
up to 12 A · 0.16–0.24 A	—	—	—	ZBT12-0,24
up to 12 A · 0.16–0.25 A	—	LRD02, LRE02	—	—
up to 12 A · 0.17–0.23 A	—	—	TF42-0.23	—
up to 12 A · 0.18–0.25 A	3RU2116-0CB0, 3RU2116-0CC0	—	—	—
up to 12 A · 0.22–0.32 A	3RU2116-0DB0, 3RU2116-0DC0, 3RU2116-0DB1, 3RU2116-0DC1	—	—	—
up to 12 A · 0.23–0.31 A	—	—	TF42-0.31	—
up to 12 A · 0.23–0.36 A	—	LR2K0303	—	—
up to 12 A · 0.24–0.4 A	—	—	—	ZB32-0,4, ZBT12-0,4
up to 12 A · 0.25–0.4 A	—	LRD03, LRE03	—	—
up to 12 A · 0.28–0.4 A	3RU2116-0EB0, 3RU2116-0EB1, 3RU2116-0EC0	—	—	—
up to 12 A · 0.3–1 A	—	—	EF19-1.0	—
up to 12 A · 0.3–1.5 A	—	LR97D015M7, LR97D015B	—	—
up to 12 A · 0.31–0.41 A	—	—	TF42-0.41	—
up to 12 A · 0.32–1.25 A	3RB3016-1NB0, 3RB3113-4NE0, 3RB3123-4NE0, 3RB3026-1NE0, 3RB3113-4NB0, 3RB3026-2NE0	—	—	—
up to 12 A · 0.33–1.65 A	—	—	—	ZEB32-1,65/KK, ZEB12-1,65, ZEB12-1,65-GF, ZEB32-1,65, ZEB32-1,65-GF/KK, ZEB32-1,65-GF
up to 12 A · 0.35–0.5 A	3RU2116-0FB0, 3RU2116-0FC0, 3RU2116-0FB1, 3RU2116-0FC1	—	—	—
up to 12 A · 0.36–0.54 A	—	LR2K0304	—	—

up to 12 A · 0.4–0.6 A	—	—	—	278434, ZB32-0,6, ZE-0,6, ZBT12-0,6
up to 12 A · 0.4–0.63 A	—	LRD04, LRE04	—	—
up to 12 A · 0.4–2 A	—	LR9D02	—	—
up to 12 A · 0.41–0.55 A	—	—	TF42-0.55	—
up to 12 A · 0.45–0.63 A	3RU2116-0GB0, 3RU2116-0GC1, 3RU2116-0GB1, 3RU2116-0GC0	—	—	—
up to 12 A · 0.5–6 A	—	LT4706M7A, LT4706BS, LT4706M7S	—	—
up to 12 A · 0.54–0.8 A	—	LR2K0305	—	—
up to 12 A · 0.55–0.74 A	—	—	TF42-0.74	—
up to 12 A · 0.55–0.8 A	3RU2116-0HB0, 3RU2116-0HC0	—	—	—
up to 12 A · 0.6–1 A	—	—	—	ZB12-1, ZB32-1, ZBT12-1, ZE-1,0
up to 12 A · 0.63–1 A	—	LRD05, LRE05	—	—
up to 12 A · 0.7–1 A	3RU2116-0JB0, 3RU2116-0JB1, 3RU2116-0JC1, 3RU2116-0JC0	—	—	—
up to 12 A · 0.74–1 A	—	—	TF42-1.0	—
up to 12 A · 0.8–1.2 A	—	LR2K0306	—	—
up to 12 A · 0.8–2.7 A	—	—	EF19-2.7	—
up to 12 A · 0.9–1.25 A	3RU2116-0KB0, 3RU2116-0KC1, 3RU2116-0KC0, 3RU2116-0KB1	—	—	—
up to 12 A · 1–1.3 A	—	—	TF42-1.3	—
up to 12 A · 1–1.6 A	—	LRD06, LRD063, LRE06	—	ZB12-1,6, ZE-1,6, ZBT12-1,6
up to 12 A · 1–4 A	3RB2016-1PB0, 3RB3016-1PB0, 3RB3113-4PE0, 3RB3123-4PE0, 3RB3016-2PE0, 3RB3026-2PE0	—	—	—
up to 12 A · 1–5 A	—	—	—	ZEB32-5/KK, ZEB32-5, ZEB32-5-GF/KK, ZEB12-5, ZEB12-5-GF, ZEB32-5-GF
up to 12 A · 1.1–1.6 A	3RU2116-1AB0, 3RU2116-1AC1, 3RU2116-1AB1, 3RU2116-1AC0	—	—	—
up to 12 A · 1.2–1.8 A	—	LR2K0307	—	—
up to 12 A · 1.2–7 A	—	LR97D07M7, LR97D07B	—	—
up to 12 A · 1.3–1.7 A	—	—	TF42-1.7 Thermal Overload Relay 1.3-1.7A	—
up to 12 A · 1.3–1.8 A	—	—	1SAZ211201R1025	—
up to 12 A · 1.4–2 A	3RU2116-1BB0, 3RU2116-1BC0, 3RU2116-1BB1	—	—	—
up to 12 A · 1.6–2.4 A	—	—	—	ZB12-2,4, ZB32-2,4, ZBT12-2,4, ZE-2,4
up to 12 A · 1.6–2.5 A	—	LRD07, LRE07, LRD073	—	—
up to 12 A · 1.6–8 A	—	LR9D08	—	—
up to 12 A · 1.7–2.3 A	—	—	TF42-2.3, TF42-2.3	—
up to 12 A · 1.8–2.5 A	3RU2116-1CB0, 3RU2126-1CB0, 3RU2116-1CC0, 3RU2126-1CC0, 3RU2116-1CB1, 3RU2116-1CC1	—	—	—
up to 12 A · 1.8–2.6 A	—	LR2K0308	—	—
up to 12 A · 1.9–6.3 A	—	—	EF19-6.3	—

up to 12 A · 2.2–3.2 A	3RU2116-1DB0, 3RU2116-1DC0, 3RU2126-1DB0, 3RU2126-1DC0, 3RU2116-1DB1, 3RU2116-1DC1	—	—	—
up to 12 A · 2.3–3.1 A	—	—	TF42-3.1	—
up to 12 A · 2.4–4 A	—	—	—	ZB12-4, ZB32-4, ZBT12-4, ZE-4
up to 12 A · 2.5–4 A	—	LRD08, LRE08, LRD08L	—	—
up to 12 A · 2.6–3.7 A	—	LR2K0310	—	—
up to 12 A · 2.8–4 A	3RU2116-1EB0, 3RU2116-1EC0, 3RU2126-1EC0, 3RU2116-1EB1, 3RU2126-1EB0, 3RU2116-1EC1	—	TF42-4.2, 1SAZ211201R1033	—
up to 12 A · 3–12 A	3RB3016-1SB0, 3RB3026-1SB0, 3RB3113-4SB0, 3RB3113-4SE0, 3RB3123-4SE0, 3RB3123-4SB0	—	—	—
up to 12 A · 3.1–4.2 A	—	—	TF42-4.2	—
up to 12 A · 3.5–5 A	3RU2116-1FB0, 3RU2126-1FB0, 3RU2116-1FC1, 3RU2126-1FC0, 3RU2116-1FB1, 3RU2116-1FC0	—	—	—
up to 12 A · 3.7–5.5 A	—	LR2K0312	—	—
up to 12 A · 4–6 A	—	LRD10, LRE10, LRD103, LRD10L	—	ZB32-6, ZB12-6, ZBT12-6, ZE-6
up to 12 A · 4.2–5.7 A	—	—	TF42-5.7	—
up to 12 A · 4.5–6.3 A	3RU2126-1GB0, 3RU2116-1GB0, 3RU2116-1GB1, 3RU2116-1GC1, 3RU2116-1GC0, 3RU2126-1GC0	—	—	—
up to 12 A · 4.5–6.5 A	—	—	1SAZ211201R1038	—
up to 12 A · 5.5–8 A	3RU2116-1HB0, 3RU2126-1HC0, 3RU2116-1HC0, 3RU2126-1HB0, 3RU2116-1HC1, 3RU2116-1HB1	LRD12, LR2K0314, LRE12, LRD123, LRD12L	—	—
up to 12 A · 5.7–7.6 A	—	—	TF42-7.6	—
up to 12 A · 6–9 A	—	—	—	ZE-9
up to 12 A · 6–10 A	—	—	—	ZB12-10, ZB32-10, ZBT12-10
up to 12 A · 7–10 A	3RU2116-1JB0, 3RU2126-1JB0, 3RU2126-1JC0, 3RU2116-1JC0, 3RU2116-1JB1, 3RU2116-1JC1	LRD14, LRE14, LRD14L	—	—
up to 12 A · 7.5–11 A	—	—	1SAZ211201R1043	—
up to 12 A · 7.6–10 A	—	—	TF42-10	—
up to 12 A · 8–11.5 A	—	LR2K0316	—	—
up to 12 A · 9–12 A	—	—	—	ZBT12-12, ZB12-12
12–40 A · 3–30 A	—	LT4730BA, LT4730M7S, LT4730M7A, LT4730BS	—	—
12–40 A · 4–16 A	3RB3016-1TB0, 3RB3113-4TE0, 3RB3113-4TB0, 3RB3016-1TE0, 3RB3016-2TE0	—	—	—
12–40 A · 4–20 A	—	—	—	ZEB12-20, ZEB32-20/KK, ZEB32-20-GF, ZEB32-20, ZEB12-20-GF, ZEB32-20-GF/KK
12–40 A · 5–25 A	3RB2026-1RB0	LR97D25M7, LR97D25B	—	—
12–40 A · 5.7–18.9 A	—	—	EF19-18.9, E16DU-18.9	—

12-40 A · 6-25 A	3RB3026-1QB0, 3RB3026-2QE0, 3RB3123-4QE0, 3RB3123-4QB0, 3RB3026-1QE0, 3RB3026-2QB0	—	—	—
12-40 A · 6.4-32 A	—	LR9D32	—	—
12-40 A · 9-12.5 A	3RU2126-1KB0, 3RU2116-1KB0, 3RU2116-1KC0, 3RU2116-1KC1, 3RU2116-1KB1, 3RU2126-1KC0	—	—	—
12-40 A · 9-13 A	—	LRD16, LRD313, LRD16L, LRE16, LRD313L, LRD163	—	—
12-40 A · 9-30 A	—	—	EF45-30	—
12-40 A · 10-13 A	—	—	TF42-13	—
12-40 A · 10-16 A	—	—	TF42-16	ZB32-16
12-40 A · 10-40 A	3RB3026-1VB0, 3RB3123-4VB0, 3RB3123-4VE0, 3RB3026-2VE0, 3RB3026-1VE0, 3RB3026-2VB0	—	—	—
12-40 A · 11-16 A	3RU2116-4AB0, 3RU2126-4AB0, 3RU2116-4AC0, 3RU2116-4AB1, 3RU2126-4AC0, 3RU2136-4AD0	—	—	—
12-40 A · 12-16 A	—	—	—	ZBT32-16
12-40 A · 12-18 A	—	LRD21, LRD318, LRE21	—	—
12-40 A · 13-16 A	—	—	TF42-16	—
12-40 A · 13-19 A	—	—	1SAZ211201R1047	—
12-40 A · 14-20 A	3RU2126-4BB0, 3RU2126-4BC0, 3RU2126-4BB1, 3RU2126-4BC1	—	—	—
12-40 A · 16-20 A	—	—	TF42-20	—
12-40 A · 16-24 A	—	LRD22, LRE22, LRD223	—	ZBT32-24
12-40 A · 17-22 A	3RU2126-4CB0, 3RU2126-4CC0, 3RU2126-4CC1, 3RU2126-4CB1	—	—	—
12-40 A · 17-24 A	—	LRD22L	—	—
12-40 A · 17-25 A	—	LRD325L, LRD325, LRD3322	—	—
12-40 A · 18-25 A	3RU2136-4DD0	—	TF65-33-V2, 1SAZ211201R1051	—
12-40 A · 20-24 A	—	—	TF42-24	—
12-40 A · 20-25 A	3RU2126-4DB0, 3RU2126-4DC0, 3RU2126-4DC1, 3RU2126-4DB1	—	—	—
12-40 A · 20-38 A	—	LR97D38B, LR97D38M7	—	—
12-40 A · 22-28 A	—	—	TF65-28	—
12-40 A · 22-32 A	3RU2136-4EB0, 3RU2136-4ED0, 3RU2136-4ED1	—	TF65-33	—
12-40 A · 23-28 A	3RU2126-4NB0, 3RU2126-4NC0, 3RU2126-4NC1, 3RU2126-4NB1	—	—	—
12-40 A · 23-32 A	—	LRD32, LRD332, LRD3353, LRD332L, LRE32	—	ZBT65-32
12-40 A · 24-29 A	—	—	TF42-29	—
12-40 A · 24-32 A	—	—	—	ZBT32-32, ZB32-32
12-40 A · 24-40 A	—	—	—	ZB65-40
12-40 A · 25-33 A	—	—	TF65-33	—

12–40 A · 27–32 A	3RU2126-4EB0, 3RU2126-4EB1, 3RU2126-4EC1, 3RU2126-4EC0	—	—	—
12–40 A · 28–40 A	3RU2136-4FB0, 3RU2146-4FB0, 3RU2136-4FD1, 3RU2136-4FD0	—	—	—
12–40 A · 29–35 A	—	—	TF42-35	—
12–40 A · 30–36 A	3RU2126-4PB0, 3RU2126-4PC0, 3RU2126-4PB1, 3RU2126-4PC1	—	—	—
12–40 A · 30–38 A	—	LRD35, LRE35	—	—
12–40 A · 30–40 A	—	LRD340, LRD3355, LRD340L, LR2D3555	TF65-40	—
12–40 A · 34–40 A	3RU2126-4FB0, 3RU2126-4FC0, 3RU2126-4FB1, 3RU2126-4FC1	—	—	—
12–40 A · 35–38 A	—	—	TF42-38	—
40–100 A · 5–60 A	—	LT4760M7A, LT4760M7S, LT4760BS	—	—
40–100 A · 9–45 A	—	—	—	ZEB32-45/KK, ZEB32-45-GF/KK, ZEB65-45, ZEB32-45, ZEB65-45-GF, ZEB32-45-GF
40–100 A · 12.5–50 A	3RB3036-1UW1, 3RB3036-1UB0, 3RB3036-2UB0, 3RB3036-2UD0, 3RB3143-4UD0, 3RB3036-2UW1	—	—	—
40–100 A · 15–45 A	—	—	EF45-45	—
40–100 A · 20–80 A	3RB3036-1WW1, 3RB3036-1WB0, 3RB3036-2WW1, 3RB3036-2WB0, 3RB3036-1WD0, 3RB3036-2WX1	—	—	—
40–100 A · 20–100 A	—	—	—	ZEB65-100, ZEB150-100-GF/KK, ZEB65-100- GF, ZEB150-100-GF, ZEB150-100/KK, ZEB150-100
40–100 A · 25–70 A	—	—	EF65-70	—
40–100 A · 36–45 A	3RU2136-4GD0	—	—	—
40–100 A · 36–47 A	—	—	TF65-47	—
40–100 A · 36–50 A	3RU2146-4HD0	—	—	—
40–100 A · 36–100 A	—	—	EF96-100	—
40–100 A · 37–50 A	—	LRD350, LRD3357, LRD350L, LR2D3557	—	ZBT95-50, ZBT65-50
40–100 A · 40–50 A	3RU2136-4HB0, 3RU2136-4HD0, 3RU2136-4HB1, 3RU2136-4HD1	—	—	—
40–100 A · 40–57 A	—	—	—	ZB65-57
40–100 A · 44–53 A	—	—	TF65-53	—
40–100 A · 47–57 A	3RU2136-4QB0, 3RU2136-4QD0	—	—	—
40–100 A · 48–60 A	—	—	TF96-60	—
40–100 A · 48–65 A	—	LRD365, LRD3359, LRD365L, LR2D3559	—	ZBT65-65, ZBT95-65
40–100 A · 50–65 A	—	—	—	ZB65-65
40–100 A · 50–70 A	—	—	—	Z5-70/FF225A
40–100 A · 54–65 A	3RU2136-4JB0	—	—	—
40–100 A · 55–70 A	—	LRD3361, LR2D3561	—	—
40–100 A · 57–67 A	—	—	TF65-67	—
40–100 A · 57–75 A	3RU2146-4KB1	—	—	—

40–100 A · 60–100 A	—	LR9D5367, LR9D5567	—	—
40–100 A · 62–73 A	3RU2136-4KD0	—	—	—
40–100 A · 62–80 A	—	LRD3803, LR3D380, LRD3806, LRD380	—	—
40–100 A · 63–80 A	—	LRD3363, LR2D3563	—	ZBT95-80
40–100 A · 65–78 A	—	—	TF96-78	—
40–100 A · 70–80 A	3RU2136-4RB0, 3RU2136-4RB1, 3RU2136-4RD0	—	—	—
40–100 A · 70–100 A	—	—	—	Z5-100/FF225A
40–100 A · 75–87 A	—	—	TF96-87	—
40–100 A · 77–97 A	—	—	—	ZBT95-97
40–100 A · 80–100 A	3RU2146-4MD1	—	—	—
40–100 A · 84–96 A	—	—	TF96-96	—
over 100 A · 28–115 A	—	LR9G115	—	—
over 100 A · 32–115 A	3RB3046-1XW1, 3RB3143-4XD0, 3RB3046-2XX1, 3RB3046-2XW1, 3RB3046-1XX1	—	—	—
over 100 A · 50–200 A	3RB2056-1FC2, 3RB2153-4FC2, 3RB2056-1FW2, 3RB2056-2FC2, 3RB2056-2FW2, 3RB2153-4FF2	—	—	—
over 100 A · 55–250 A	3RB2163-4GC2, 3RB2066-1GC2, 3RB2066-2GC2, 3RB2066-1GF2	—	—	—
over 100 A · 57–225 A	—	LR9G225	—	—
over 100 A · 80–104 A	—	LRD3365, LRD4365	—	—
over 100 A · 90–150 A	—	LR9D5569, LR9D5369	—	—
over 100 A · 95–120 A	—	LRD4367	—	—
over 100 A · 95–125 A	—	—	—	Z5-125/FF225A
over 100 A · 110–140 A	—	LRD4369	—	—
over 100 A · 120–160 A	—	—	—	Z5-160/FF225A
over 100 A · 125–500 A	—	LR9G500	—	—
over 100 A · 160–630 A	3RB2163-4MC2, 3RB2066-1MC2, 3RB2066-2MC2, 3RB2163-4MF2	LR9G630	—	—
over 100 A · 200–250 A	—	—	—	Z5-250/FF225A
over 100 A · 200–300 A	—	—	—	Z5-300/FF250

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