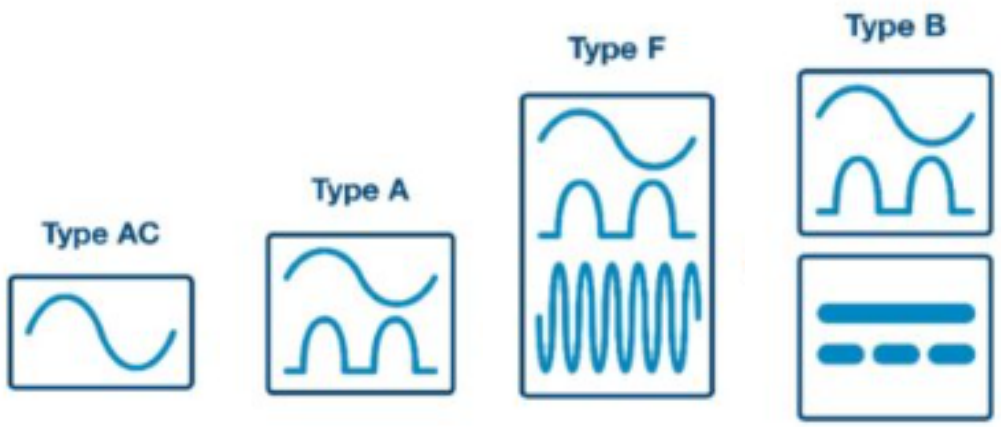
Electrical Installations Regulations Updates –Further awareness.

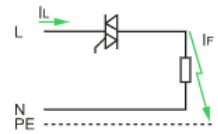
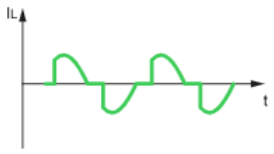
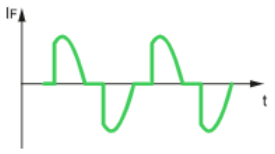
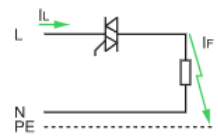
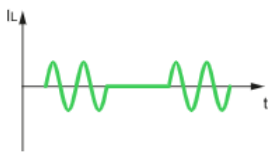
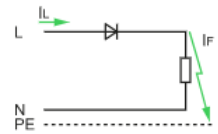
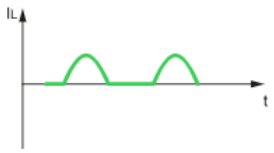
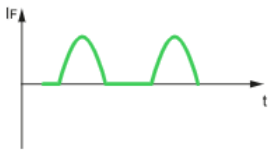
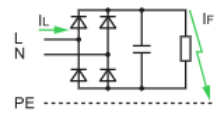
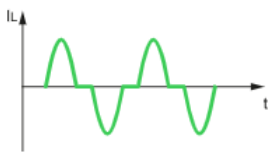
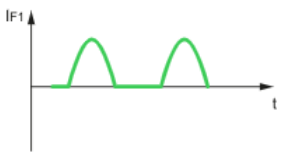
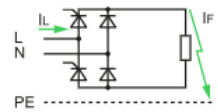
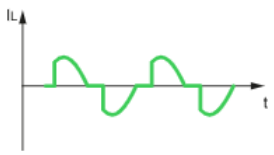
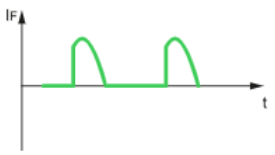
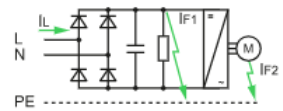
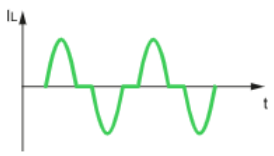
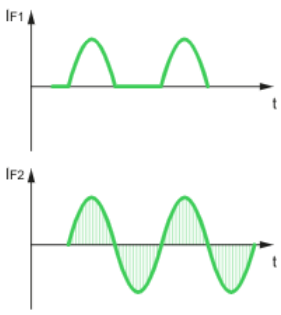
RCD's for earth fault protection:

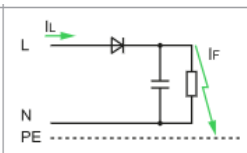
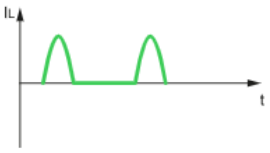
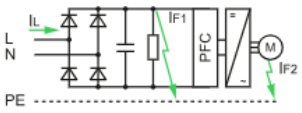
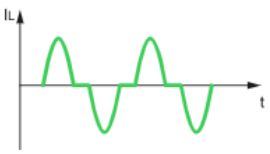
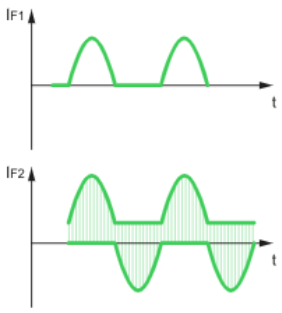
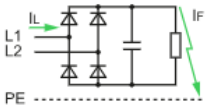
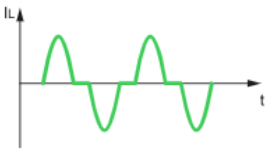
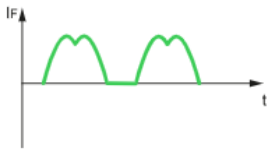
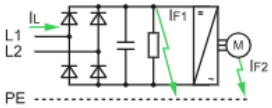
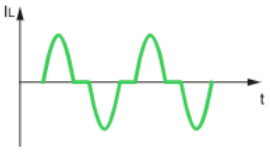
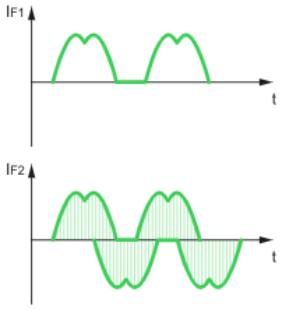
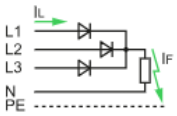
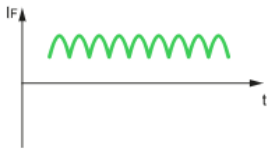
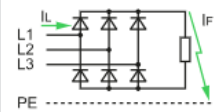
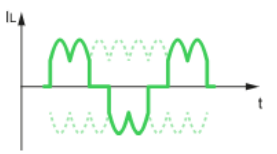
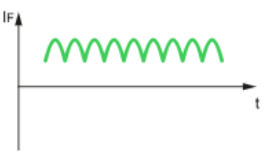
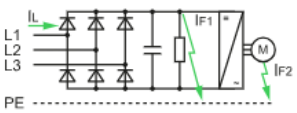
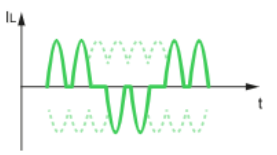
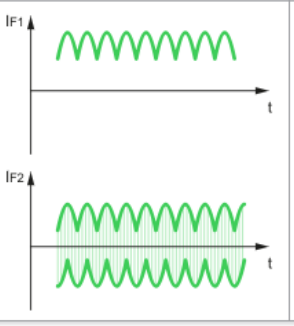
Types of RCD's, their identification and their appropriate use:

- **Symbols how to identify the RCD type:**



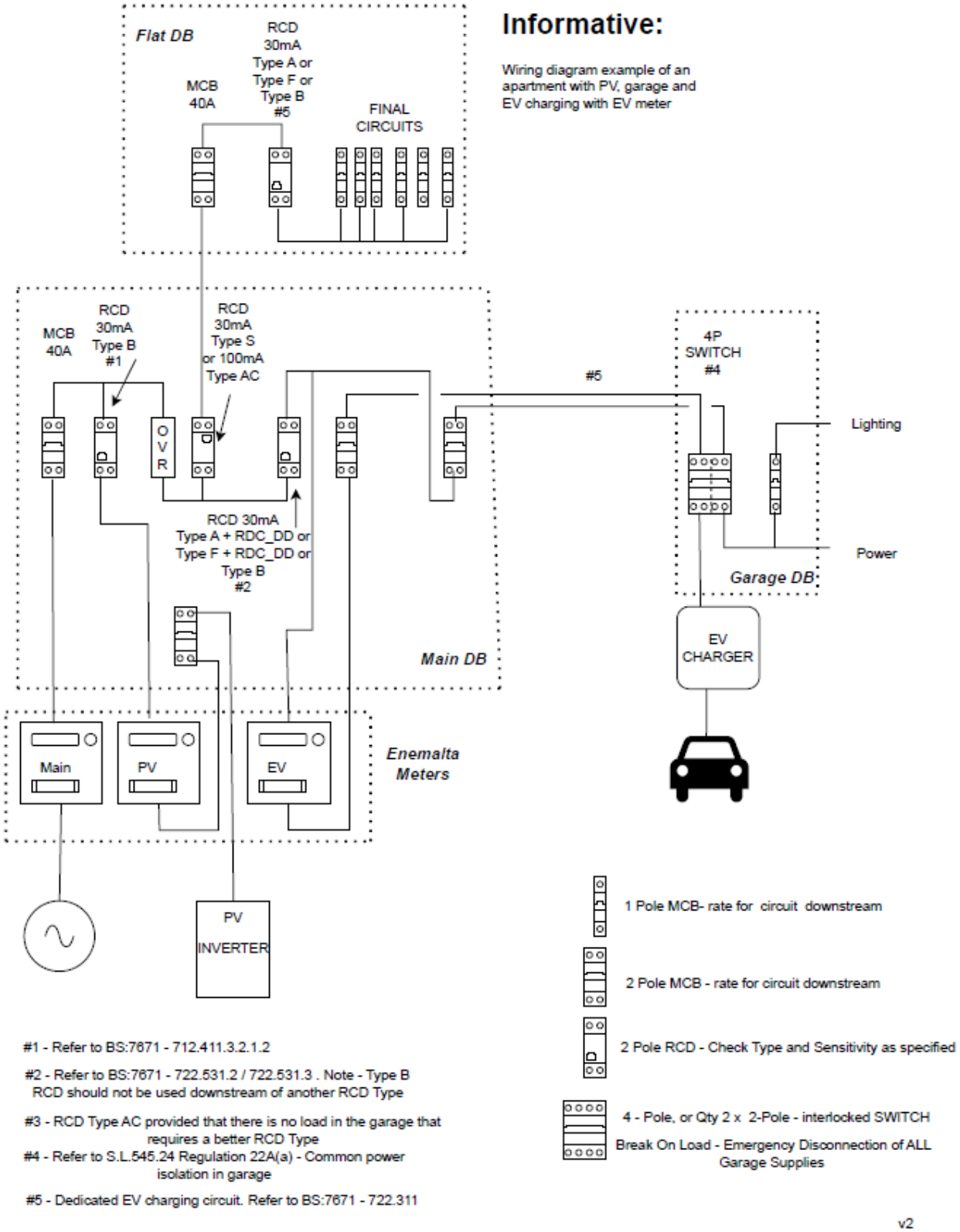
➢ **Table showing the type of fault currents and the appropriate Type of RCD protection.**

	Circuit diagram with fault location		Shape of line current I_L	Shape of earth fault current I_F	RCD tripping characteristic
1	Phase control				AC, A, F, B
2	Burst control				AC, A, F, B
3	Single-phase				A, F, B
4	Two-pulse bridge				A, F, B
5	Two-pulse bridge, half controlled				A, F, B
6	Frequency inverter with two-pulse bridge				F, B

7	Single-phase with smoothing				B
8	Frequency inverter with two-pulse bridge and PFC				B
9	Two-pulse bridge between phases				B
10	Frequency inverter with two-pulse bridge between phases				B
11	Three-phase star				B
12	Six-pulse bridge				B
13	Frequency inverter with six-pulse bridge				B

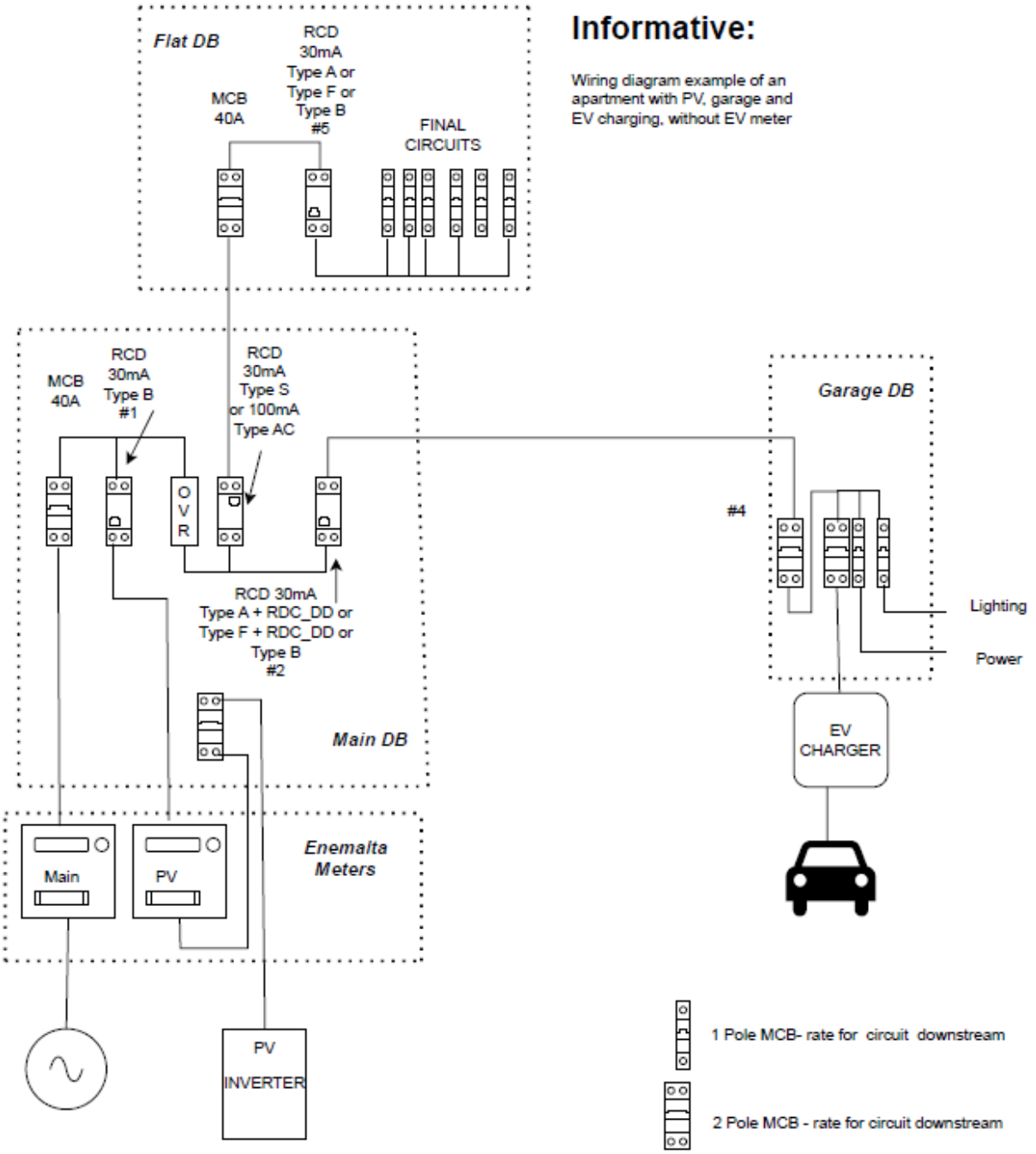
IEC 60755 - F52

Informative ; examples of wiring schemes:



Informative:

Wiring diagram example of an apartment with PV, garage and EV charging, without EV meter



#1 - Refer to BS:7671 - 712.411.3.2.1.2

#2 - Refer to BS:7671 - 722.531.2 / 722.531.3 . Note - Type B RCD should not be used downstream of another RCD Type

#3 - RCD Type AC provided that there is no load in the garage that requires a better RCD Type

#4 - Refer to S.L.545.24 Regulation 22A(a) - Common power isolation in garage