

Technical data

Coordination between Modular Circuit-Breakers and fuses, three-phase network (+ neutral) 400 / 415 V_± according to standard IEC/EN 60947-2:

For TT or TN neutral system in 240/415 V network, to know the breaking capacity of the combination of a double pole breaker (co phase and neutral under 230 V) downstream of a triple-pole circuit-breaker, take the values shown in Tables 230/400 V.

connected between

MCB downstream		Fuse upstream									
		gG Type									
		≤20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	10 A	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	16 A	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	20 A	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	25 A	-	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	32 A	-	-	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	40 A	-	-	-	-	-	100 kA	100 kA	100 kA	100 kA	40 kA
	50 A	-	-	-	-	-	-	100 kA	100 kA	100 kA	40 kA
	63 A	-	-	-	-	-	-	-	100 kA	100 kA	40 kA

MCB downstream		Fuse upstream									
		aM Type									
		≤20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	10 A	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	16 A	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	20 A	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	25 A	-	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	32 A	-	-	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	40 A	-	-	-	-	-	100 kA	100 kA	100 kA	100 kA	40 kA
	50 A	-	-	-	-	-	-	100 kA	100 kA	100 kA	40 kA
	63 A	-	-	-	-	-	-	-	100 kA	100 kA	40 kA

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the threshold and size of upstream fuse which must necessarily be higher.

arily be higher

Coordination between Modular Circuit-Breakers, three-phase network (+ neutral) 400 / 415 V_± according to IEC/EN 60947-2:

For TT or TN neutral system in 230/400 V network, to know the breaking capacity of the combination of a double pole breaker (co phase and neutral under 230 V) downstream of a triple-pole circuit-breaker, take the values shown in Tables 230/400 V.

connected between

MCB downstream		MCB upstream							
		DX ³ 10000/16 kA C and D Curves							
		≤25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ 10000 A C Curves	≤6 A	16 kA	16 kA	16 A	16 kA	16 kA	16 kA	16 kA	16 kA
	10 A	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	16 A	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	20 A	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	25 A	-	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	32 A	-	-	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	40 A	-	-	-	16 kA	16 kA	16 kA	16 kA	16 kA
	50 A	-	-	-	-	16 kA	16 kA	16 kA	16 kA
	63 A	-	-	-	-	-	16 kA	16 kA	16 kA

MCB downstream		MCB upstream							
		DX ³ 25 kA C and D Curves							
		≤25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ 10000 A C Curves	≤6 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	10 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	16 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	20 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	25 A	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	32 A	-	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	40 A	-	-	-	25 kA	25 kA	25 kA	25 kA	25 kA
	50 A	-	-	-	-	25 kA	25 kA	25 kA	25 kA
	63 A	-	-	-	-	-	25 kA	25 kA	25 kA

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit

t breakers which must necessarily be higher.

Technical data

Coordination between Modular Circuit-Breakers, three-phase network (+ neutral) 400/415 V± according to IEC/EN 60947-2:

For TT or TN neutral system in 240/415 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230 V) downstream of a triple-pole circuit-breaker, take the values shown in Tables 240/415 V.

MCB downstream		MCB upstream										
		DX ³ 36 kA C Curve						DX ³ 50 kA C and D Curves				
		≤25 A	32 A	40 A	50 A	63 A	80 A	≤25 A	32 A	40 A	50 A	63 A
DX ³ 10000 A C Curves	≤6 A	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	10 A	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	16 A	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	20 A	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	25 A	-	36 kA	36 kA	36 kA	36 kA	36 kA	-	50 kA	50 kA	50 kA	50 kA
	32 A	-	-	36 kA	36 kA	36 kA	36 kA	-	-	50 kA	50 kA	50 kA
	40 A	-	-	-	36 kA	36 kA	36 kA	-	-	-	50 kA	50 kA
	50 A	-	-	-	-	36 kA	36 kA	-	-	-	-	50 kA
	63 A	-	-	-	-	-	36 kA	-	-	-	-	-

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

Coordination between Modular Circuit-Breakers (MCB) and Moulded Case Circuit Breakers (MCCBs), three-phase network (+ neutral) 400 / 415 V± according to standard IEC/EN60947-2:

For TT or TN neutral system in 240/415 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230 V) downstream of a triple-pole circuit-breaker, take the values shown in Tables 240/415 V.

MCB downstream		MCCB upstream							
		DPX ³ 160 / DPX ³ 160 + RCD							
		16 kA							
		16 A	25 A	40 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	10 A	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	16 A	-	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	20 A	-	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	25 A	-	-	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	32 A	-	-	16 kA	16 kA	16 kA	16 kA	16 kA	16 kA
	40 A	-	-	-	16 kA	16 kA	16 kA	16 kA	16 kA
	50 A	-	-	-	16 kA	16 kA	16 kA	16 kA	16 kA
	63 A	-	-	-	-	16 kA	16 kA	16 kA	16 kA

MCB downstream		MCCB upstream							
		DPX ³ 160 / DPX ³ 160 + RCD							
		25 - 36 - 50 kA							
		16 A	25 A	40 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	10A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	16A	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	20A	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	36 kA
	25A	-	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	32A	-	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	40A	-	-	-	25 kA	25 kA	25 kA	25 kA	25 kA
	50A	-	-	-	25 kA	25 kA	25 kA	25 kA	25 kA
	63A	-	-	-	-	25 kA	25 kA	25 kA	25 kA

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

Technical data

Coordination between Modular Circuit-Breakers (MCB) and Moulded Case Circuit Breakers (MCCBs), three-phase network (+ neutral) 400 / 415 V_± according to standard IEC/EN60947-2:

For TT or TN neutral system in 240/415 V network, to know the breaking capacity of the combination of a double pole breaker (co phase and neutral under 230 V) downstream of a triple-pole circuit-breaker, take the values shown in Tables 240/415 V.

connected between

MCB downstream		MCCB upstream			
		DPX ³ 250 / DPX ³ 250+RCD (Thermal-Magnetic & Electronic)			
		25 - 36 - 50 kA - 70 kA			
		100A	160A	200A	250A
DX ³ 10000 A/10 kA C and D curves	≤6 A	25 kA	25 kA	25 kA	25 kA
	10 A	25 kA	25 kA	25 kA	25 kA
	16 A	25 kA	25 kA	25 kA	25 kA
	20 A	25 kA	25 kA	25 kA	25 kA
	25 A	25 kA	25 kA	25 kA	25 kA
	32 A	25 kA	25 kA	25 kA	25 kA
	40 A	25 kA	25 kA	25 kA	25 kA
	50 A	25 kA	25 kA	25 kA	25 kA
	63 A	25 kA	25 kA	25 kA	25 kA

MCB downstream		MCCB upstream													
		DPX / H / L 250 (Thermal-Magnetic & electronic)						DPX 400AB		DPX / DPXH / DPXL 630 (Thermal-Magnetic & electronic)					
		36 - 70 - 100 kA						36 kA		36 - 70 - 100 kA					
		25A	40A	63A	100A	160A	250A	320A	400A	250A	320A	400A	500A	630A	
DX ³ 10000 A/10 kA C and D curves	≤6 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	
	10 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	
	16 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	
	20 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	
	25 A	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	
	32 A	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	
	40 A	-	-	25 kA	25 kA	25 kA	25 kA	25 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	
	50 A	-	-	25 kA	25 kA	25 kA	25 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	
	63 A	-	-	-	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the magnetic (or electronic) threshold and to the size of

upstream circuit breakers which must necessarily be higher.

Coordination between Modular Circuit-Breakers (MCB) and Moulded Case Circuit Breakers (MCCBs), three-phase network (+ neutral) 400 / 415 V_± according to standard IEC/EN60947-2:

For TT or TN neutral system in 240/415 V network, to know the breaking capacity of the combination of a double pole breaker (co phase and neutral under 230 V) downstream of a triple-pole circuit-breaker, take the values shown in Tables 240/415 V.

connected between

MCB downstream		MCCB upstream	
		DPX / H / L 1250 (Thermo-Magnetic)	DPX / H 1600 (Electronic)
		50 - 70 - 100 kA	36 - 70 kA
		500 to 1250A	630 to 1600A
DX ³ 10000 A/10 kA C and D curves	≤6 A	25 kA	25 kA
	10 A	25 kA	25 kA
	16 A	25 kA	25 kA
	20 A	25 kA	25 kA
	25 A	20 kA	20 kA
	32 A	16 kA	16 kA
	40 A	16 kA	16 kA
	50 A	16 kA	16 kA
	63 A	16 kA	16 kA

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the magnetic (or electronic) threshold and to the size of

upstream circuit breakers which must necessarily be higher.

Coordination between Modular Circuit-Breakers and fuses, three-phase network (+ neutral) 230/240 V_± according to standard IEC/EN 60947-2:

MCB downstream		Fuse upstream									
		gG Type									
		≤20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	10 A	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	16 A	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	20 A	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	25 A	-	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	32 A	-	-	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	40 A	-	-	-	-	-	100 kA	100 kA	100 kA	100 kA	40 kA
	50 A	-	-	-	-	-	-	100 kA	100 kA	100 kA	40 kA
	63 A	-	-	-	-	-	-	-	100 kA	100 kA	40 kA

MCB downstream		Fuse upstream									
		aM Type									
		≤20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	10 A	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	16 A	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	20 A	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	25 A	-	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	32 A	-	-	-	-	100 kA	100 kA	100 kA	100 kA	100 kA	40 kA
	40 A	-	-	-	-	-	100 kA	100 kA	100 kA	100 kA	40 kA
	50 A	-	-	-	-	-	-	100 kA	100 kA	100 kA	40 kA
	63 A	-	-	-	-	-	-	-	100 kA	100 kA	40 kA

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the threshold and to the size of upstream fuses which mus

t necessarily be higher.

Technical data

Coordination between modular circuit-breakers, three-phase network (+ neutral) 230/240 V± according to IEC/EN 60947-2:

MCB downstream		MCB upstream							
		DX ³ 10000/16 kA							
		B, C and D Curves							
		≤25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ 10000 A C Curves	≤6 A	32 kA	32 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	10 A	32 kA	32 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	16 A	32 kA	32 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	20 A	32 kA	32 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	25 A	-	32 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	32 A	-	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	40 A	-	-	-	25 kA	25 kA	25 kA	25 kA	25 kA
	50 A	-	-	-	-	25 kA	25 kA	25 kA	25 kA
	63 A	-	-	-	-	-	25 kA	25 kA	25 kA

MCB downstream		MCB upstream							
		DX ³ 25 kA							
		≤25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ 10000 A C Curves	≤6 A	50 kA	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	10 A	50 kA	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	16 A	50 kA	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	20 A	50 kA	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	25 A	-	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	32 A	-	-	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	40 A	-	-	-	25 kA	25 kA	25 kA	25 kA	25 kA
	50 A	-	-	-	-	25 kA	25 kA	25 kA	25 kA
	63 A	-	-	-	-	-	25 kA	25 kA	25 kA

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

Coordination between Modular Circuit-Breakers, three-phase network (+ neutral) 230/240 V± according to IEC/EN 60947-2:

MCB downstream		MCB upstream										
		DX ³ 36 kA					DX ³ 50 kA					
		≤25 A	32 A	40 A	50 A	63 A	80 A	≤25 A	32 A	40 A	50 A	63 A
DX ³ 10000 A C Curves	≤6 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	20 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	25 A	-	50 kA	50 kA	50 kA	50 kA	50 kA	-	50 kA	50 kA	50 kA	50 kA
	32 A	-	-	50 kA	50 kA	50 kA	50 kA	-	-	50 kA	50 kA	50 kA
	40 A	-	-	-	50 kA	50 kA	50 kA	-	-	-	50 kA	50 kA
	50 A	-	-	-	-	50 kA	50 kA	-	-	-	-	50 kA
	63 A	-	-	-	-	-	50 kA	-	-	-	-	-

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

Coordination between Modular Circuit-Breakers (MCB) and Moulded Case Circuit Breakers (MCCBs), three-phase network (+ neutral) 230/240 V± according to standard IEC/EN 60947-2:

MCB downstream		MCCB upstream							
		DPX ³ 160 / DPX ³ 160 + RCD							
		16 kA							
		16 A	25 A	40 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA
	10 A	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA
	16 A	-	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA
	20 A	-	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA
	25 A	-	-	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA
	32 A	-	-	28 kA	28 kA	28 kA	28 kA	28 kA	28 kA
	40 A	-	-	-	28 kA	28 kA	28 kA	28 kA	28 kA
	50 A	-	-	-	28 kA	28 kA	28 kA	28 kA	28 kA
	63 A	-	-	-	-	28 kA	28 kA	28 kA	28 kA

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

Technical data

Coordination between Modular Circuit-Breakers (MCB) and Moulded Case Circuit Breakers (MCCBs), three-phase network (+ neutral) 230/240 V_± according to standard IEC/EN 60947-2:

MCB downstream		MCCB upstream							
		DPX ³ 160 / DPX ³ 160 + RCD							
		25 kA							
		16 A	25 A	40 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
	10 A	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
	16 A	-	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
	20 A	-	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
	25 A	-	-	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
	32 A	-	-	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
	40 A	-	-	-	40 kA	40 kA	40 kA	40 kA	40 kA
	50 A	-	-	-	40 kA	40 kA	40 kA	40 kA	40 kA
	63 A	-	-	-	-	40 kA	40 kA	40 kA	40 kA

MCB downstream		MCCB upstream							
		DPX ³ 160 / DPX ³ 160 + RCD							
		36 - 50 kA							
		16 A	25 A	40 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	16 A	-	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	20 A	-	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	25 A	-	-	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	32 A	-	-	50 kA	-	50 kA	50 kA	50 kA	50 kA
	40 A	-	-	-	50 kA	50 kA	50 kA	50 kA	50 kA
	50 A	-	-	-	50 kA	50 kA	50 kA	50 kA	50 kA
	63 A	-	-	-	-	50 kA	50 kA	50 kA	50 kA

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit

breakers which must necessarily be higher.

Coordination between Modular Circuit-Breakers (MCB) and Moulded Case Circuit Breakers (MCCBs), three-phase network (+ neutral) 230/240 V_± according to standard IEC/EN 60947-2:

MCB downstream		MCCB upstream			
		DPX ³ 250 / DPX ³ 250+RCD (Thermal-magnetic & electronic)			
		25 kA			
		100 A	160 A	200 A	250 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	40 kA	40 kA	40 kA	40 kA
	10 A	40 kA	40 kA	40 kA	40 kA
	16 A	40 kA	40 kA	40 kA	40 kA
	20 A	40 kA	40 kA	40 kA	40 kA
	25 A	40 kA	40 kA	40 kA	40 kA
	32 A	40 kA	40 kA	40 kA	40 kA
	40 A	40 kA	40 kA	40 kA	40 kA
	50 A	40 kA	40 kA	40 kA	40 kA
	63 A	40 kA	40 kA	40 kA	40 kA

All these values are also valid for circuit breakers associated to differential blocks.

Technical data

Coordination between Modular Circuit-Breakers (MCB) and Moulded Case Circuit Breakers (MCCBs), three phase network (+ neutral) 230/240 V \pm according to standard IEC/EN 60947-2:

MCB downstream		MCCB upstream									
		DPX ³ 250 / DPX ³ 250+RCD (Thermal-magnetic & electronic)					DPX / H / L 250 (Thermal-magnetic & electronic)				
		36 - 50 - 70 kA					36 - 70 - 100 kA				
		100 A	160 A	200 A	250 A	25 A	40 A	63 A	100 A	160 A	250 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	20 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	25 A	50 kA	50 kA	50 kA	50 kA	-	50 kA	50 kA	50 kA	50 kA	50 kA
	32 A	50 kA	50 kA	50 kA	50 kA	-	50 kA	50 kA	50 kA	50 kA	50 kA
	40 A	50 kA	50 kA	50 kA	50 kA	-	-	50 kA	50 kA	50 kA	50 kA
	50 A	50 kA	50 kA	50 kA	50 kA	-	-	50 kA	50 kA	50 kA	50 kA
	63 A	50 kA	50 kA	50 kA	50 kA	-	-	-	50 kA	50 kA	50 kA

MCB downstream		MCCB upstream						
		DPX 400AB		DPX / DPXH / DPXL 630MT (Thermal-magnetic & electronic)				
		36 kA		36 - 70 - 100 kA				
		320 A	400 A	250 A	320 A	400 A	500 A	630 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	20 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	25 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	32 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	40 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	50 A	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA
	63 A	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the magnetic (or electronic) threshold and to the size of

upstream circuit breakers which must necessarily be higher.

Coordination between Modular Circuit-Breakers (MCB) and Moulded Case Circuit Breakers (MCCBs), three phase network (+ neutral) 230/240 V \pm according to standard IEC/EN 60947-2:

MCB downstream		MCCB upstream	
		DPX / H / L 1250 (Thermal-magnetic)	DPX / H 1600 (electronic)
		50 - 70 - 100 kA	36 - 70 kA
		500 to 1250 A	630 to 1600 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	50 kA	50 kA
	10 A	50 kA	50 kA
	16 A	50 kA	50 kA
	20 A	50 kA	50 kA
	25 A	50 kA	50 kA
	32 A	50 kA	50 kA
	40 A	50 kA	50 kA
	50 A	36 kA	36 kA
	63 A	36 kA	36 kA

All these values are also valid for circuit breakers associated to differential blocks.

According to the curves and ratings of circuit breakers, attention to the magnetic (or electronic) threshold and to the size of

upstream circuit breakers which must necessarily be higher.

Selectivity between two levels of protection

- The downstream circuit breaker must always have a magnetic threshold and a rated current lower than those of the upstream protection.
- Selectivity is indicated total (T) if there is selectivity up to the value of breaking capacity (according to IEC / EN 60947-2) of the downstream circuit breaker.

Selectivity between modular circuits breakers and fuses:

- Selectivity limit at 400 V \pm : values in Ampere.

MCB downstream		Fuse upstream							
		gG Type							
		32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	1300	1900	2500	4000	4600	11000	T	T
	10 A	-	1600	2200	3200	3600	7000	11000	T
	16 A	-	1400	1800	2600	3000	5600	8000	15000
	20 A	-	1200	1500	2200	2500	4600	6300	10000
	25 A	-	-	1300	2000	2200	4100	5500	9000
	32 A	-	-	1200	1700	1900	3500	4500	8000
	40 A	-	-	-	-	1700	3000	4000	6000
	50 A	-	-	-	-	16000	2600	3500	5000
	63 A	-	-	-	-	-	2400	3300	5000

MCB downstream		Fuse upstream								
		aM Type								
		25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	1000	1600	2100	3200	6200	15000	T	T	T
	10 A	-	1100	1700	2500	5000	7800	12000	T	T
	16 A	-	1000	1400	2100	4000	6000	9000	T	T
	20 A	-	-	1300	1800	3400	5100	7000	14000	T
	25 A	-	-	1100	1600	3000	4500	6000	9300	14000
	32 A	-	-	-	1300	2400	3800	5000	7700	9000
	40 A	-	-	-	-	2100	3100	4200	6400	7000
	50 A	-	-	-	-	2000	2900	3700	6000	6000
	63 A	-	-	-	-	-	2800	3500	5500	6000

T = Total discrimination

Technical data

Selectivity between modular circuits breakers:

Selectivity limit at 400 V ± : values in Ampere.

MCB downstream		MCB upstream										
		DX ³ 25 kA										
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	40	64	80	100	700	1200	1500	3000	4000	T	T
	10 A	-	64	80	100	500	700	1000	1800	3000	5000	T
	16 A	-	-	80	100	300	500	700	1300	2000	3600	5500
	20 A	-	-	-	100	-	400	500	1000	1600	3000	4000
	25 A	-	-	-	-	-	-	500	800	1300	2400	3300
	32 A	-	-	-	-	-	-	500	600	1000	1800	2700
	40 A	-	-	-	-	-	-	-	600	800	1600	2400
	50 A	-	-	-	-	-	-	-	-	800	900	1700
	63 A	-	-	-	-	-	-	-	-	-	900	1200

MCB downstream		MCB upstream										
		DX ³ 25 kA										
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	75	120	150	187	700	1200	1500	3000	4000	T	T
	10 A	-	120	150	187	500	700	1000	1800	3000	5000	T
	16 A	-	-	150	187	300	500	700	1300	2000	3600	5500
	20 A	-	-	-	187	300	400	500	1000	1600	3000	4000
	25 A	-	-	-	-	240	400	500	800	1300	2400	3300
	32 A	-	-	-	-	-	300	500	600	1000	1800	2700
	40 A	-	-	-	-	-	-	400	600	800	1600	2400
	50 A	-	-	-	-	-	-	-	500	800	900	1700
	63 A	-	-	-	-	-	-	-	-	650	900	1200

T = Total discrimination

Selectivity between modular circuits breakers:

Selectivity limit at 400 V ± : values in Ampere.

MCB downstream		MCB upstream										
		DX ³ 25 kA										
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	120	192	240	300	700	1200	1500	3000	4000	T	T
	10 A	-	192	240	300	500	700	1000	1800	3000	5000	T
	16 A	-	-	240	300	384	500	700	1300	2000	3600	5500
	20 A	-	-	-	300	384	480	600	1000	1600	3000	4000
	25 A	-	-	-	-	384	480	600	800	1300	2400	3300
	32 A	-	-	-	-	-	480	600	756	1100	1450	2700
	40 A	-	-	-	-	-	-	600	756	1000	1250	2400
	50 A	-	-	-	-	-	-	-	756	950	1200	1700
	63 A	-	-	-	-	-	-	-	-	950	1200	1500

MCB downstream		MCB upstream								
		DX ³ 36 kA								
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	75	120	170	210	700	1200	1500	3000	4000
	10 A	-	120	150	210	500	700	1000	1800	3000
	16 A	-	-	150	187	300	500	700	1300	2000
	20 A	-	-	-	187	300	400	500	1000	1600
	25 A	-	-	-	-	240	400	500	800	1300
	32 A	-	-	-	-	-	300	500	600	1000
	40 A	-	-	-	-	-	-	400	600	800
	50 A	-	-	-	-	-	-	-	500	800
	63 A	-	-	-	-	-	-	-	-	650

T = Total discrimination

Technical data

Selectivity between modular circuits breakers:

Selectivity limit at 415 V ± : values in Ampere.

MCB downstream		MCB upstream							
		DX ³ 50 kA							
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	-	64	170	500	700	1200	1500	3000
	10 A	-	-	150	210	500	700	1000	1800
	16 A	-	-	-	-	300	500	700	1300
	20 A	-	-	-	-	-	400	500	1000
	25 A	-	-	-	-	-	-	500	800
	32 A	-	-	-	-	-	-	500	600
	40 A	-	-	-	-	-	-	-	600
	50 A	-	-	-	-	-	-	-	-
	63 A	-	-	-	-	-	-	-	-

MCB downstream		MCB upstream							
		DX ³ 50 kA							
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	75	120	170	500	700	1200	1500	3000
	10 A	-	120	150	210	500	700	1000	1800
	16 A	-	-	150	187	300	500	700	1300
	20 A	-	-	-	187	300	400	500	1000
	25 A	-	-	-	-	240	400	500	800
	32 A	-	-	-	-	-	300	500	600
	40 A	-	-	-	-	-	-	400	600
	50 A	-	-	-	-	-	-	-	500
	63 A	-	-	-	-	-	-	-	-

Selectivity between modular circuits breakers:

Selectivity limit at 415 V ± : values in Ampere.

MCB downstream		MCB upstream							
		DX ³ 50 kA							
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	120	192	240	500	700	1200	1500	3000
	10 A	-	192	240	300	500	700	1000	1800
	16 A	-	-	240	300	384	500	700	1300
	20 A	-	-	-	300	384	480	600	1000
	25 A	-	-	-	-	384	480	600	800
	32 A	-	-	-	-	-	480	600	756
	40 A	-	-	-	-	-	-	600	756
	50 A	-	-	-	-	-	-	-	756
	63 A	-	-	-	-	-	-	-	-

Selectivity between modular circuits breakers (MCB) and Moulded Case Circuit Breakers (MCCBs):

Selectivity limit at 415 V ± : values in Ampere.

MCB downstream		MCCB upstream							
		DPX ³ 160 DPX ³ 160 + RCD							
		16 - 25 - 36 - 50 kA							
		16 A	25 A	40 A	63 A	80 A	100 A	125 A	160 A
DX ³ 10000 A/ 10 kA C and D curves	≤6 A	6000	12000	12000	T	T	T	T	T
	10 A	5000	7000	7000	7000	T	T	T	T
	16 A	-	6000	6000	6000	6000	T	T	T
	20 A	-	5000	5000	5000	5000	6000	T	T
	25 A	-	-	4500	4500	4500	4500	8500	T
	32 A	-	-	-	3000	4000	4000	7000	10000
	40 A	-	-	-	3000	3000	3000	6000	8000
	50 A	-	-	-	-	3000	3000	5500	7000
	63 A	-	-	-	-	3000	3000	5000	6000

T = Total discrimination

Selectivity between modular circuits breakers (MCB) and Moulded Case Circuit Breakers (MCCBs):

Selectivity limit at 415 V ± : values in Ampere.

MCB downstream		MCCB upstream							
		DPX ³ 250 DPX ³ 250 + diff (Thermo-magnetic & electronic)				DPX 400 AB		DPX / H / L 1250 (Thermo-magnetic)	DPX / H 1600 (electronic)
		25 - 36 - 50 - 70 kA				36 kA		50 - 70 - 100 kA	36 - 70 kA
		100 A	160 A	200 A	250 A	320 A	400 A	500 to 1250 A	630 to 1600 A
DX ³ 10000 A/10 kA C and D curves	≤6 A	T	T	T	T	T	T	T	T
	10 A	T	T	T	T	T	T	T	T
	16 A	T	T	T	T	T	T	T	T
	20 A	T	T	T	T	T	T	T	T
	25 A	T	T	T	T	T	T	T	T
	32 A	5000	T	T	T	T	T	T	T
	40 A	5000	T	T	T	T	T	T	T
	50 A	4000	T	T	T	T	T	T	T
	63 A	4000	T	T	T	T	T	T	T