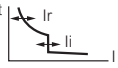
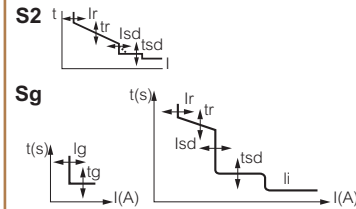


DPX³
electrical characteristics

																																						
DEVICES	DPX³ 160 thermal magnetic				DPX³ 250 thermal magnetic				DPX³ 250 electronic release					DPX³ 630 thermal magnetic				DPX³ 630 electronic release				DPX³ 1600 thermal magnetic				DPX³ 1600 electronic release												
Mounting	On rail  or on plate				On rail  or on plate				On rail  or on plate					On plate				On plate				On plate				On plate												
Breaking capacity (kA) (EN 60947-2 and IEC 60947-2)	16 kA	25 kA	36 kA	50 kA	25 kA	36 kA	50 kA	70 kA	25 kA	36 kA	50 kA	70 kA		36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA									
380/415 V~	16	25	36	50	25	36	50	70	25	36	50	70		36	50	70	100	36	50	70	100	36	50	70	100	36	50	70	100									
220/240 V~	25	35	50	65	40	60	100	100	40	60	100	100		70	100	120	170	70	100	120	170	70	100	120	170	70	100	120	170									
Breaking capacity (% Icu)	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100									
Characteristic of use																																						
Nominal frequency	50/60 Hz													50/60 Hz																								
Maximum rated operating voltage Ue	690 V (500 V with integrated e.l.c.bs)				690 V (500 V with integrated e.l.c.bs)				690 V (500 V with integrated e.l.c.bs)					690 V~				690 V~				690 V~				690 V~												
Category of use	A				A				A					A				A: In 630 A - B: In 200 to 400 A				A				B												
Thermal magnetic adjustment																																						
	Thermal	0,8 to 1 In				0,8 to 1 In				-					0.8 to 1 In				-				0.8 to 1 In				-											
	Magnetic	10 In (400 A for 16 A and 25 A sizes)				5 to 10 In				-					5 to 10 In				-				5 to 10 In				-											
Electronic protection adjustment																																						
																		S2	Sg					S2	Sg													
																		I _r = 0.4 - 1 x I _n	•	•					I _r = 0.4 - 1 x I _n	•	•											
																		t _r = 3-30 s	•	•					t _r = 3-30 s	•	•											
																		I _{sd} = 1.5 - 10 I _r	•	•					I _{sd} = 1.5 - 10 I _r	•	•											
																		t _{sd} (I=K) = 0-500 ms	•	•					t _{sd} (I=K) = 0-500 ms	•	•											
																		t _{sd} (I²t=K) = 0-500 ms	•	•					t _{sd} (I²t=K) = 0-500 ms	•	•											
																		I _g = 0.2 - 1 x I _n		•					I _g = 0.2 - 1 x I _n		•											
																					t _g = 0.1 - 1 s		•						t _g = 0.1 - 1 s		•							
Maximum cable cross-section																																						
Rigid cable	150 mm²				150 mm²				150 mm²					300 mm² or 2 x 240 mm²				300 mm² or 2 x 240 mm²				2 or 4 x 240 mm²				2 or 4 x 240 mm²												
Flexible cable	120 mm²				120 mm²				120 mm²					240 mm² or 2 x 185 mm²				240 mm² or 2 x 185 mm²				2 or 4 x 185 mm²				2 or 4 x 185 mm²												
Copper bar and lug width	18 mm				28.5 mm ⁽¹⁾				28.5 mm ⁽¹⁾					32 mm				32 mm				50 mm				50 mm												
Tightening torque	8 Nm				10 Nm				10 Nm					15 Nm				20 Nm																				
Nominal current (I _n) at 40 °C (A)																																						
In (A)	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250		250	320	400	500	630	250	320	400	500	630	500	630	800	1000	1250	500	630	800	1000	1250	1600
Phase	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250		250	320	400	500	630	250	320	400	500	630	500	630	800	1000	1250	500	630	800	1000	1250	1600
N	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250		250	320	400	500	630	0 - 50 - 100 % of phase value				500	630	800	1000	1250	0 - 50 - 100 % of phase value						
N/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	250	250	250	320	-				-	-	-	500	630	-						
Magnetic threshold (I _m) (A) ⁽²⁾ of DPX³ thermal magnetic	Fixed				Adjustable				Adjustable					Adjustable																								
In (A)	16	25	40	63	80	100	125	160	100	160	200	250	-				250	320	400	500	630	-				500	630	800	1000	1250	-							
Phase	400	400	400	630	800	1000	1250	1600	500-1000	800-1600	1000-2000	1250-2500	-				1250-2500	1600-3200	2000-4000	2500-5000	3150-6300	-				2500-5000	3150-6300	4000-8000	5000-10000	6250-12500	-							
N	400	400	400	630	800	1000	1250	1600	500-1000	800-1600	1000-2000	1250-2500	-				1250-2500	1600-3200	2000-4000	2500-5000	3150-6300	-				2500-5000	3150-6300	4000-8000	5000-10000	6250-12500	-							
N/2	-	-	-	-	-	-	-	-	-	-	-	-	-				-	1000-2000	1250-2500	1600-2500	2000-4000	-				-	-	-	2500-5000	3150-6000	-							
Endurance (cycles)																																						
Electrical	8000				8000				8000					5000				5000				4000				4000												
Mechanical	25000				20000				20000					10000				20000				10000				10000												
Electronic earth leakage module																																						
Type	without or integrated				without or integrated				without or integrated					downstream e.l.c.bs.				downstream e.l.c.bs.				-				-												

1: Copper bars only
2: Trip current for 50/60 Hz. For direct current, multiply by 1.5