











DPX<sup>3</sup>

electrical characteristics

																																								
DEVICES	DPX <sup>3</sup> 160 thermal magnetic				DPX <sup>3</sup> 250 thermal magnetic				DPX <sup>3</sup> 250 electronic release				DPX <sup>3</sup> 630 thermal magnetic				DPX <sup>3</sup> 630 electronic release				DPX <sup>3</sup> 1600 thermal magnetic				DPX <sup>3</sup> 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	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	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	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	100	100	100								
Characteristic of use	50/60 Hz																50/60 Hz																							
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																																								
																	Ir : 0,4 to 1 In I <sub>sd</sub> : 1,5 to 10 Ir																							
																	S2 Sg Ir = 0.4 - 1 x In • • Ir = 3-30 s • • I <sub>sd</sub> = 1.5 - 10 Ir • • tsd (I=K) = 0-500 ms • • tsd (I≠K) = 0-500 ms • • I <sub>g</sub> = 0.2 - 1 x In • • I <sub>g</sub> = 0.1 - 1 s • •																							
Maximum cable cross-section																																								
Rigid cable	150 mm <sup>2</sup>				150 mm <sup>2</sup>				150 mm <sup>2</sup>				300 mm <sup>2</sup> or 2 x 240 mm <sup>2</sup>				300 mm <sup>2</sup> or 2 x 240 mm <sup>2</sup>				2 or 4 x 240 mm <sup>2</sup>				2 or 4 x 240 mm <sup>2</sup>															
Flexible cable	120 mm <sup>2</sup>				120 mm <sup>2</sup>				120 mm <sup>2</sup>				240 mm <sup>2</sup> or 2 x 185 mm <sup>2</sup>				240 mm <sup>2</sup> or 2 x 185 mm <sup>2</sup>				2 or 4 x 185 mm <sup>2</sup>				2 or 4 x 185 mm <sup>2</sup>															
Copper bar and lug width	18 mm				28.5 mm <sup>(1)</sup>				28.5 mm <sup>(1)</sup>				32 mm				32 mm				50 mm				50 mm															
Tightening torque	8 Nm				10 Nm				10 Nm				15 Nm				15 Nm				20 Nm				20 Nm															
Nominal current (In) 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 (Im) (A) <sup>(2)</sup> of DPX <sup>3</sup> 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	125-250	200-400	315-630	500-1000	-				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	125-250	200-400	315-630	500-1000	-				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

 For DPX<sup>3</sup> magnetic release only, Please, consult us