DPX³ 125, 160 and 250 HP

technical charcateristics (continued)

Technical characteristics (at 40 °C and 50 °C)

MCCBs			DPX³ 125 HP thermal magnetic				DPX³ 125 HP thermal magnetic with electronic earth leakage module		DPX³ 160 HP thermal magnetic				DPX³ 160 HP thermal magnetic with electronic earth leakage module	
			36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	36 kA	50 kA	70 kA	100 kA	36 kA	50 kA
Nominal rating In (A)			16-20-25-32-40 50-63-80-100-125				16-20-25-32-40 50-63-80-100-125		160				160	
Rated insulation voltage Ui (V)	50-60 Hz		800				500		800				500	
Rated operational voltage Ue (V)	50-60 Hz		690				500		690				500	
Rated impulse withstand current Uimp (kV)			8				6		8				6	
Category of use			A				A		A				A	
IEC 60947-2	Ultimate breaking capacity (kA) in AC	220/240 V∿	70	90	100	150	70	90	70	90	100	150	70	90
		380/415 V∿	36	50	70	100	36	50	36	50	70	100	36	50
		440/460 V∿	20	25	35	40	20	25	20	25	35	40	20	25
		480/500 V∿	12	16	20	25	12	16	12	16	20	25	12	16
		550 V∿	8	10	16	18	-	-	8	10	16	18	-	-
		690 V∿	5	6	10	12	-	-	5	6	10	12	-	-
	Standard breaking capacity Ics (% Icu)		100	100	100	100	100	100	100	100	100	100	100	100
	Short-circuit making capacity Icm (kA)	415 V∿	76.5	105	154	220	76.5	105	76.5	105	154	220	76.5	105

MCCBs			DPX³ 250 HP thermal magnetic				DPX³ 250 HP thermal magnetic with electronic earth leakage module	
			36 kA	50kA	70 kA	100 kA	36 kA	50 kA
Rated current In (A)			16-20-25-32-40-50-63-80-100-125-160-200-250				16-20-25-32-40-50-63-80-100-125-160-200-250	
Rated insulation voltage Ui (V)	50-60 Hz		800				500	
Rated operational voltage Ue (V)	50-60 Hz		690				500	
Rated impulse withstand current Uimp (kV)			8				6	
Category of use			A				A	
IEC 60947-2	Ultimate breaking capacity (kA) in AC	220/240 V∿	70	90	100	150	70	90
		380/415 V∿	36	50	70	100	36	50
		440/460 V∿	25	30	40	50	25	30
		480/500 V∿	16	18	30	35	16	18
		550 V∿	10	12	22	25	-	-
		690 V∿	7	8	20	22	-	-
	Standard breaking capacity Ics (% Icu)		100	100	100	100	100	
	Short-circuit making capacity Icm (kA)	415 V∿	76.5	105	154	220	76.5	105

MCCBs			DPX³ 250 HP electronic release				DPX³ 250 HP electronic release with electronic earth leakage module	
			36 kA	50kA	70 kA	100 kA	36 kA	50kA
Rated current In (A)			40-100-160-250				40-100-160-250	
Rated insulation voltage Ui (V)	50-60 Hz		800				500	
Rated operational voltage Ue (V)	50-60 Hz		690				500	
Rated impulse withstand current Uimp (kV)			8				6	
Category of use			A				A	
IEC 60947-2	Ultimate breaking capacity (kA) in AC	220/240 V∿	70	90	100	150	70	90
		380/415 V∿	36	50	70	100	36	50
		440/460 V∿	25	30	40	50	25	30
		480/500 V∿	16	18	30	35	16	18
		550 V∿	10	12	22	25	-	-
		690 V∿	7	8	20	22	-	-
	Standard breaking capacity Ics (% Icu)		100	100	100	100	100	100
	Short-circuit making capacity Icm (kA)	415 V∿	76.5	105	154	220	76.5	105

Adjustment for thermal-magnetic DPX³ 125, 160 and 250 HP

Setting		DPX³ thermal magnetic	DPX³ with integrated e.l.c.bs
Ir overload trip threshold (thermal)		0.8 - 0.9 - 1 x In	
Im short-circuit trip threshold (magnetic)	DPX³ 125 HP	fixed at 400 A for In from 16 A to 40 A fixed at 10 x In for In ≥ 50 A	
	DPX³ 250 HP	Adjustable: fixed at 400 A for In ≤ 40 A from 6.5 to 13 x In for In = 50 A from 5 to 10 x In for In ≥ 50 A	
I∆n (A)		-	0.03 - 0.3 - 1 - 3
∆t (s)		-	0 - 0.3 - 1 - 3

Adjustment for DPX³ 250 HP electronic release

Setting	DPX³ S1	DPX³ S1 with integrated e.l.c.bs	DPX³ S10	DPX³ S10 with integrated e.l.c.bs
Ir overload trip threshold (long delay)	0.4 to 1 x In		0.2 to 1 x In - OFF (step 1 A)	
tr	5 s		3 to 15 s (step 40 ms via software/app)	
I∆n (A)	-	0.03 - 0.03 - 1 - 3	-	0.03 - 0.3 - 1 - 3
∆t (s)	-	0 - 0.3 - 1 - 3	-	0 - 0.3 - 1 - 3
Isd short-circuit trip threshold (short delay)	1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 x Ir		1.5 x Ir to 10 x In - OFF (step 1 A via software / app)	
tsd (t=k, I²t=k) short delay trip time	0.1 s		40 to 480 ms (step 40 ms via software / app)	
Ii instantaneous protection (t=k)	-		2 to 15 x In - OFF. (step 1 A via software / app)	
Ig	-		0.2 to 1 x In - OFF (step 0.1 x In)	
tg (t=k, I²t=k)	-		80 ms to 1 s (step 40 ms)	

Functioning in particular conditions (temperature and altitude derating) **see technical sheets**

DPX³ HP tripping curves **see technical sheets**