

DPX³ 630/1600

reading DPX³ characteristic curves and adjustment ranges

Adjustment for thermal-magnetic DPX³

Threshold Setting	DPX ³ 630	DPX ³ 1600
I _r overload trip threshold (thermal)	0.8 to 1 I _n	0.8 to 1 I _n
I _m short-circuit trip threshold (magnetic)	5 to 10 I _n	5 to 10 I _n

Adjustment for DPX³ electronic release

Threshold Setting	S1
I _r long delay setting current (protection against overloads)	$I_r = 0.4 \div 1 \times I_n$ (with 2 selectors of 10 steps)
t _r long delay protection operation time	t _r = 5 s (with memory ON)
I _{sd} short delay setting current (protection against short-circuits)	$I_{sd} = 1.5 \div 10 I_r$ (with 10 steps)
t _{sd} (t=k, I ² t=k) short delay protection operation time	t _{sd} = 100 ms

Threshold Setting	S10	
	Directly on the MCCB	Via software/App.
I _r long delay setting current (protection against overloads)	0.2 to 1 x I _n / step 1 A	0.2 to 1 x I _n - OFF / step 1 A
t _r long delay protection operation time	3 to 30 s	3 to 30 s / step 40 ms
I _{sd} short delay setting current (protection against short-circuits)	1.5 to 3 x I _r / step 0.5 x I _r 3 to 10 x I _r / step I _r	1.5 x I _r to 10 x I _n - OFF / step 1 A
t _{sd} (t=k, I ² t=k) short delay protection operation time	40 to 480 ms	40 to 480 ms / step 40 ms
I _i (t=k) instantaneous protection	-	2 to 15 x I _n - OFF / step 1 A
I _g	0.2 to 1 x I _n / step 0.1 x I _n	0.2 to 1 x I _n - OFF / step 0.1 x I _n
t _g (t=k, I ² t=k)	80 to 480 ms and 1 s	80 ms to 1 s / step 40 ms

DPX³-I

technical characteristics

Electrical characteristics

	DPX ³ -I 160	DPX ³ -I 250	DPX ³ -I 125 HP	DPX ³ -I 160 HP	DPX ³ -I 250 HP	DPX ³ -I 630	DPX ³ -I 1600
Rated operating voltage U _e (V) 50/60 Hz	690 ⁽¹⁾	690 ⁽¹⁾	690	690	690	690	690
Rated insulation voltage U _i (V~)	800	800	800	800	800	800	800
Rated impulse withstand voltage U _{imp} (kV)	8	8	8	8	8	8	8
Rated closing capacity on 400 V short circuit I _{cm} (kA)	3	4.3	2.5	3	4.3	6.5 ⁽²⁾ / 13 ⁽³⁾	40
Short-time resistive current t = 1 s I _{cs} (kA)	2	3	1.5	2	3	4 ⁽²⁾ / 7.6 ⁽³⁾	10 ⁽⁴⁾ / 15 ⁽⁵⁾ / 20 ⁽⁶⁾
Endurance (o.c. cycle)	mechanical	25000	25000	20000	20000	12000	25000
	electrical	8000	8000	8000	8000	6000	4000
Conventional thermal current (A)	160	250	125	160	250	630	1600
Nominal current of use (A) AC 23 A	160 (160 V)	250 (250 V)	125	160	250	630	1600

1: 500 V for DPX³-I with earth leakage module

2: I_n = 400 A

3: I_n = 630 A

4: I_n = 800 A

5: I_n = 1250 A

6: I_n = 1600 A

Dimensions

Dimensions of DPX³-I identical to corresponding DPX³

DPX ³ -I	Dimensions
DPX ³ -I 160	DPX ³ 160 (see p. 188)
DPX ³ -I 250	DPX ³ 250 (see p. 188)
DPX ³ -I 125 HP	DPX ³ 125 HP (see p. 190)
DPX ³ -I 160 HP	DPX ³ 160 HP (see p. 190)
DPX ³ -I 250 HP	DPX ³ 250 HP (see p. 191)
DPX ³ -I 630	DPX ³ 630 (see p. 194-195)
DPX ³ -I 1600	DPX ³ 1600 (see p. 196-197)

Choice of faceplates and distribution equipment

Equipment of DPX³-I identical to corresponding DPX³

Devices	XL ³ S 630	XL ³ S 4000	XL ³ 4000
DPX ³ /DPX ³ -I 160	(p. 336)	(p. 357)	(p. 385)
DPX ³ /DPX ³ -I 250	(p. 336)	(p. 357)	(p. 385)
DPX ³ /DPX ³ -I 630	(p. 338)	(p. 359)	(p. 388)
DPX ³ /DPX ³ -I 1600	-	(p. 362)	(p. 389)