

## DRX™ 250 HP

### technical characteristics

#### Electrical and mechanical characteristics

		DRX 250 HP 25 kA	DRX 250 HP 36 kA	DRX 250 HP 50 kA
Number of poles		3P - 4P	3P - 4P	3P - 4P
Release type		thermal-magnetic		
Rated current I <sub>n</sub> (A)		16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 180, 200, 225, 250		
Rated insulation voltage U <sub>i</sub> (V)		800	800	800
Rated operating voltage (50/60 Hz) U <sub>e</sub> (V)		550	550	550
Rated impulse withstand Voltage U <sub>imp</sub> (kV)		8	8	8
Rated frequency (Hz)		50 - 60	50 - 60	50 - 60
Reference ambient temperature T <sub>amb</sub> (°C)		40 - 50	40 - 50	40 - 50
Operating temperature (°C)		-25 to 70	-25 to 70	-25 to 70
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> (kA) IEC 60947-2	220/240 V $\sim$	40	70	90
	380/415 V $\sim$	25	36	50
	440/460 V $\sim$	20	30	45
	480/500 V $\sim$	4	4	4
	550 V $\sim$	4	4	4
Rated service short-circuit breaking capacity I <sub>cs</sub> (% I <sub>cu</sub> )		100	100	100
Rated short-circuit making capacity I <sub>cm</sub> (kA) at 415 V $\sim$		52.5	75.6	105
Neutral protection for 4P version (% I <sub>th</sub> )		100	100	100
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> (kA) NEMA AB-1	220/240 V $\sim$	40	70	90
	480/500 V $\sim$	4	4	4
	550 V $\sim$	4	4	4
Category of use		A	A	A
Suitable for isolation		Yes	Yes	Yes
Thermal adjustment I <sub>r</sub> (A)		Fixed at 1.0 x I <sub>n</sub>		
Magnetic adjustment I <sub>i</sub> (A)		Fixed : 400 A, for I <sub>n</sub> up to 40 A 630 A, for I <sub>n</sub> = 50 / 63 A 10 x I <sub>n</sub> , for 80 A ≤ I <sub>n</sub> ≤ 250 A		
Endurance (cycles)	mechanical	12000	12000	12000
	electrical at I <sub>n</sub>	6000	6000	6000
	electrical at 0.5 I <sub>n</sub>	6000	6000	6000
Neutral protection for 4P version (%)		100	100	100
Dimensions W x H x D (mm)	3P	105 x 165 x 86		
	4P	140 x 165 x 86		
Weight (kg)	3P	1.6		
	4P	2.05		

## DRX™ 250 HP adjustable

### technical characteristics

#### Electrical and mechanical characteristics

		DRX 250 HP 25 kA	DRX 250 HP 36 kA	DRX 250 HP 50 kA
Number of poles		3P - 4P	3P - 4P	3P - 4P
Release type		thermal-magnetic		
Rated current I <sub>n</sub> (A)		16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250		
Rated insulation voltage U <sub>i</sub> (V)		800	800	800
Rated operating voltage (50/60 Hz) U <sub>e</sub> (V)		550	550	550
Rated impulse withstand Voltage U <sub>imp</sub> (kV)		8	8	8
Rated frequency (Hz)		50 - 60	50 - 60	50 - 60
Reference ambient temperature T <sub>amb</sub> (°C)		40 - 50	40 - 50	40 - 50
Operating temperature (°C)		-25 to 70	-25 to 70	-25 to 70
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> (kA) IEC 60947-2	220/240 V $\sim$	40	70	90
	380/415 V $\sim$	25	36	50
	440/460 V $\sim$	20	30	45
	480/500 V $\sim$	4	4	4
	550 V $\sim$	4	4	4
Rated service short-circuit breaking capacity I <sub>cs</sub> (% I <sub>cu</sub> )		100	100	100
Rated short-circuit making capacity I <sub>cm</sub> (kA) at 415 V $\sim$		52.5	75.6	105
Neutral protection for 4P version (% I <sub>th</sub> )		100	100	100
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> (kA) NEMA AB-1	220/240 V $\sim$	40	70	90
	480/500 V $\sim$	4	4	4
	550 V $\sim$	4	4	4
Category of use		A	A	A
Suitable for isolation		Yes	Yes	Yes
Thermal adjustment I <sub>r</sub> (A)		0.8 - 0.9 - 1.0 x I <sub>n</sub>		
Magnetic adjustment I <sub>i</sub> (A)		Adjustable : 400 A, for I <sub>n</sub> up to 40 A 6.5 - 10 - 13 x I <sub>n</sub> , for I <sub>n</sub> = 50 A 5 - 7.5 - 10 x I <sub>n</sub> , for 63 A ≤ I <sub>n</sub> ≤ 250 A		
Endurance (cycles)	mechanical	12000	12000	12000
	electrical at I <sub>n</sub>	6000	6000	6000
	electrical at 0.5 I <sub>n</sub>	6000	6000	6000
Neutral protection for 4P version (%)		100	100	100
Dimensions W x H x D (mm)	3P	105 x 165 x 86		
	4P	140 x 165 x 86		
Weight (kg)	3P	1.6		
	4P	2.05		