

Switch-disconnector selection

Interpact INS40 to 160



Interpact INS80 switch-disconnector.



Interpact INS40 emergency-off switch-disconnector.



Interpact INS160 switch-disconnector.



Interpact INS160 emergency-off switch-disconnector.

Interpact INS switch-disconnectors			
Number of poles			
Electrical characteristics as defined by IEC 60947-1 / 60947-3 and EN 60947-1 / 60947-3			
Conventional thermal current (A)	Ith	at 60 °C	
Conventional thermal current in enclosure	Ithe	at 60 °C	
Rated insulation level (V)	Ui	AC 50/60 Hz	
Impulse-withstand voltage (kV)	Uimp		
Rated operational voltage (V)	Ue	AC 50/60 Hz	
		DC	
Rated operational voltage AC20 and DC20 (V)		AC 50/60 Hz	
Rated operational current (A)	Ie	Electrical AC 50/60 Hz	
		220-240 V	
		380-415 V	
		440-480 V ⁽¹⁾	
		500 V	
		660-690 V	
		Electrical DC	
		125 V (2P in series)	
		250 V (4P in series)	
Rated operational power AC23 (kW)		Electrical AC 50/60 Hz	
		220-240 V	
		230 V (NEMA)	
		380-415 V	
		440 V	
		480 V (NEMA)	
		500-525 V	
		660-690 V	
Rated duties		Uninterrupted duty	
		Intermittent duty	
Short-circuit making capacity (kA peak)	Icm	Min. (switch-disconnector alone)	
		Max. (with upstream protection circuit breaker)	
Short-time withstand current (A rms)	Icw	1 s	
		3 s	
		20 s	
		30 s	
Suitability for isolation			
Durability (O-C cycles)		Mechanical	
		Electrical AC 50/60 Hz	
		220-240 V	
		380-415 V	
		440 V	
		500 V	
		690 V	
		Electrical DC	
		250 V	
Positive contact indication			
Visible break			
Emergency-off switch disconnector			
Degree of pollution			
Upstream protection			
See the "Complementary technical information" page D-1.			
⁽¹⁾ Suitable for 480 V NEMA.			

Switch-disconnector selection

Interpact INS40 to 160

	INS40	INS63	INS80	INS100	INS125	INS160
	3-4	3-4	3-4	3-4	3-4	3-4
	40	63	80	100	125	160
	40	63	80	100	125	160
	690	690	690	750	750	750
	8	8	8	8	8	8
	500	500	500	690	690	690
	250	250	250	250	250	250
	690	690	690	750	750	750
	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A
	40	40	63	63	80	80
	40	40	63	63	80	72
	40	40	63	63	80	63
	40	32	63	40	80	40
	-	-	-	-	-	-
	100	63	125	80	160	100
	DC22A	DC23A	DC22A	DC23A	DC22A	DC23A
	40	40	63	63	80	80
	40	40	63	63	80	80
	40	40	63	63	80	80
	11	15	22	22	37	45
	7,5	15	15	22	37	45
	20	30	37	45	55	75
	22	30	37	55	55	90
	22	30	30	55	75	90
	18,5	22	22	55	75	110
	-	-	-	55	75	90
	■	■	■	■	■	■
	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %
	15	15	15	20	20	20
	75	75	75	154	154	154
	3000	3000	3000	5500	5500	5500
	1730	1730	1730	3175	3175	3175
	670	670	670	1230	1230	1230
	550	550	550	1000	1000	1000
	■	■	■	■	■	■
	20000	20000	20000	15000	15000	15000
	AC22A	AC23A	AC22A	AC23A	AC22A	AC23A
	1500	1500	1500	1500	1500	1500
	1500	1500	1500	1500	1500	1500
	1500	1500	1500	1500	1500	1500
	1500	1500	1500	1500	1500	1500
	1500	1500	1500	1500	1500	1500
	1500	1500	1500	1500	1500	1500
	1500	1500	1500	1500	1500	1500
	1500	1500	1500	1500	1500	1500
	-	-	-	-	-	-
	1500	1500	1500	1500	1500	1500
	DC22A	DC23A	DC22A	DC23A	DC22A	DC23A
	1500	1500	1500	1500	1500	1500
	1500	1500	1500	1500	1500	1500
	■	■	■	■	■	■
	-	-	-	-	-	-
	■	■	■	■	■	■
	3	3	3	3	3	3
	-	-	-	-	-	-

Switch-disconnector selection

Interpact INS250-100 to 630



Interpact INS250 switch-disconnector.



Interpact INS250 emergency-off switch-disconnector.



Interpact INS400 switch-disconnector.



Interpact INS400 emergency-off switch-disconnector.

Interpact INS switch-disconnectors			
Number of poles			
Electrical characteristics as defined by IEC 60947-1 / 60947-3 and EN 60947-1 / 60947-3			
Conventional thermal current (A)	Ith	at 60 °C	
Conventional thermal current in enclosure	Ithe	at 60 °C	
Rated insulation level (V)	Ui	AC 50/60 Hz	
Impulse-withstand voltage (kV)	Uimp		
Rated operational voltage (V)	Ue	AC 50/60 Hz	
		DC	
Rated operational voltage AC20 and DC20 (V)		AC 50/60 Hz	
Rated operational current (A)	Ie	Electrical AC 50/60 Hz	
		220-240 V	
		380-415 V	
		440-480 V ⁽¹⁾	
		500-525 V	
		660-690 V	
		Electrical DC	
		125 V (2P in series)	
		250 V (4P in series)	
Rated operational power AC23 (kW)		Electrical AC 50/60 Hz	
		220-240 V	
		230 V (NEMA)	
		380-415 V	
		440 V	
		480 V (NEMA)	
		500-525 V	
		660-690 V	
Rated duties		Uninterrupted duty	
		Intermittent duty	
Short-circuit making capacity (kA peak)	Icm	Min. (switch-disconnector alone)	
		Max. (with upstream protection circuit breaker)	
Short-time withstand current (A rms)	Icw	1 s	
		3 s	
		20 s	
		30 s	
Suitability for isolation		Mechanical	
Durability (O-C cycles)		Electrical AC 50/60 Hz	
		440 V	
		500 V	
		690 V	
		Electrical DC	
		250 V	
Positive contact indication			
Visible break			
Emergency-off switch disconnector			
Degree of pollution			
Upstream protection			
See the "Complementary technical information" page D-1.			
⁽¹⁾ Suitable for 480 V NEMA.			
⁽²⁾ 550 A (DC).			

Switch-disconnector selection

Interpact INS250-100 to 630

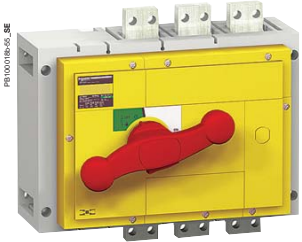
	INS250-100	INS250-160	INS250-200	INS250	INS320	INS400	INS500	INS630
	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
	100	160	200	250	320	400	500	630
	100	160	200	250	320	400	500	630 ⁽²⁾
	750	750	750	750	750	750	750	750
	8	8	8	8	8	8	8	8
	690	690	690	690	690	690	690	690
	250	250	250	250	250	250	250	250
	750	750	750	750	750	750	750	750
	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A
	100 100	160 160	200 200	250 250	320 320	400 400	500 500	630 630
	100 100	160 160	200 200	250 250	320 320	400 400	500 500	630 630
	100 100	160 160	200 200	250 250	320 320	400 400	500 500	630 630
	100 100	160 160	200 200	250 250	320 320	400 400	500 500	630 630
	100 100	160 160	200 200	250 250	320 320	400 400	500 500	630 630
	DC22A DC23A	DC22A DC23A	DC22A DC23A	DC22A DC23A	DC22A DC23A	DC22A DC23A	DC22A DC23A	DC22A DC23B
	100 100	160 160	200 200	250 250	320 320	400 400	500 500	550 550
	100 100	160 160	200 200	250 250	320 320	400 400	500 500	550 550
	22	45	55	75	90	110	132	200
	22	45	55	75	90	110	150	200
	45	75	90	132	160	200	250	315
	55	90	110	150	185	220	250	400
	55	90	110	150	185	220	250	375
	55	110	132	160	220	250	355	400
	55	90	160	210	250	400	500	560
	■	■	■	■	■	■	■	■
	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %
	30	30	30	30	50	50	50	50
	330	330	330	330	330	330	330	330
	8500	8500	8500	8500	20000	20000	20000	20000
	4900	4900	4900	4900	11500	11500	11500	11500
	2200	2200	2200	2200	4900	4900	4900	4900
	1800	1800	1800	1800	4000	4000	4000	4000
	■	■	■	■	■	■	■	■
	15000	15000	15000	15000	10000	10000	10000	10000
	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A	AC22A AC23A
	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500
	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500
	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500	1500 1500
	DC22A DC23A	DC22A DC23A	DC22A DC23A	DC22A DC23A	DC22A DC23A	DC22A DC23B	DC22A DC23B	DC22A DC23A
	1500 1500	1500 1500	1500 1500	1500 1500	1000 -	1000 -	1000 -	1000 200
	■	■	■	■	■	■	■	■
	-	-	-	-	-	-	-	-
	■	■	■	■	■	■	■	■
	3	3	3	3	3	3	3	3
	-	-	-	-	-	-	-	-

Switch-disconnector selection

Interpact INS630b to 2500



Interpact INS1600 switch-disconnector.



Interpact INS1600 emergency-off switch-disconnector.



Interpact INS2500 switch-disconnector.

Interpact INS switch-disconnectors			
Number of poles			
Electrical characteristics as defined by IEC 60947-1 / 60947-3 and EN 60947-1 / 60947-3			
Conventional thermal current (A)	Ith	at 60 °C	
Conventional thermal current in enclosure	Ithe	at 60 °C	
Rated insulation level (V)	Ui	AC 50/60 Hz	
Impulse-withstand voltage (kV)	Uimp		
Rated operational voltage (V)	Ue	AC 50/60 Hz	
		DC	
Rated operational voltage AC20 and DC20 (V)		AC 50/60 Hz	
Rated operational current (A)	Ie	Electrical AC 50/60 Hz	
		220-240 V	
		380-415 V	
		440-480 V ⁽¹⁾	
		500-525 V	
		660-690 V	
		Electrical DC	
		125 V (2P in series)	
		250 V (4P in series)	
Rated operational power AC23 (kW)		Electrical AC 50/60 Hz	
		220-240 V	
		380-400 V	
		415 V	
		500-525 V	
		660-690 V	
Rated duties		Uninterrupted duty	
		Intermittent duty	
Short-circuit making capacity (kA peak)	Icm	Min. (switch-disconnector alone)	
		Max. (with upstream protection circuit breaker)	
Short-time withstand current (kA rms)	Icw	0.5 s	
		0.8 s	
		1 s	
		3 s	
		20 s	
		30 s	
Suitability for isolation			
Durability (O-C cycles)		Mechanical	
		Electrical AC 50/60 Hz	
		220-240 V	
		380-415 V	
		440-480 V ⁽¹⁾	
		500-525 V	
		660-690 V	
		Electrical DC	
		125 V (2P)	
		250 V (4P)	
Positive contact indication			
Visible break			
Emergency-off switch disconnector			
Degree of pollution			
Upstream protection			
See the "Complementary technical information" page D-1.			
⁽¹⁾ Suitable for 480 V NEMA.			
⁽²⁾ For vertical connection busbars only. For horizontal connection busbars, see derating charts in "Installation recommendations" see p. B-22.			

Switch-disconnector selection

Interpact INS630b to 2500

	INS630b	INS800	INS1000	INS1250	INS1600	INS2000	INS2500
	3-4	3-4	3-4	3-4	3-4	3-4	3-4
	630	800	1000	1250	1600 ⁽²⁾	2000	2500
	630	800	1000	1250	1600 ⁽²⁾	2000	2500
	1000	1000	1000	1000	1000	1000	1000
	12	12	12	12	12	12	12
	690	690	690	690	690	690	690
	250	250	250	250	250	250	250
	800	800	800	800	800	800	800
	AC21A AC22A AC23A	AC21A AC22A AC23A	AC21A AC22A AC23A	AC21A AC22A AC23A	AC21B AC22B AC23A	AC21B AC22B AC23B	AC21B AC22B AC23B
	630 630 630	800 800 800	1000 1000 1000	1250 1250 1250	1600 1600 1450	2000 2000 -	2500 2500 -
	630 630 630	800 800 800	1000 1000 1000	1250 1250 1250	1600 1600 1450	2000 2000 -	2500 2500 -
	630 630 630	800 800 800	1000 1000 1000	1250 1250 1250	1600 1600 1250	2000 2000 -	2500 2500 -
	630 630 630	800 800 800	1000 1000 1000	1250 1250 1250	1600 1600 1250	2000 2000 -	2500 2500 -
	630 630 630	800 800 800	1000 1000 1000	1250 1250 1250	1600 1600 1250	2000 2000 -	2500 2500 -
	DC21A DC22A DC23A	DC21A DC22A DC23A	DC21A DC22A DC23A	DC21A DC22A DC23A	DC21A DC22A DC23A	DC21B DC22B DC23B	DC21B DC22B DC23B
	630/2 630/2 630/2	800/2 800/2 800/2	1000/2 1000/2 1000/2	1250/2 1250/2 1250/2	1600/2 1600/2 1600/2	2000/2 2000/2 -	2500/2 2500/2 -
	630/4 630/4 630/4	800/4 800/4 800/4	1000/4 1000/4 1000/4	1250/4 1250/4 1250/4	1600/4 1600/4 1600/4	2000/4 2000/4 -	2500/4 2500/4 -
	250	250	315	400	400	-	-
	400	400	560	710	710	-	-
	500	500	630	800	800	-	-
	560	560	710	900	900	-	-
	710	710	900	-	-	-	-
	■	■	■	■	■	■	■
	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %	Class 120 - 60 %
	75	75	75	75	75	105	105
	330	330	330	330	330	330	330
	50	50	50	50	50	50	50
	42	42	42	42	42	50	50
	35	35	35	35	35	50	50
	20	20	20	20	20	30	30
	10	10	10	10	10	13	13
	8	8	8	8	8	11	11
	■	■	■	■	■	■	■
	5000	3000	3000	3000	3000	3000	3000
	AC21A AC22A AC23A	AC21A AC22A AC23A	AC21A AC22A AC23A	AC21A AC22A AC23A	AC21B AC22B AC23A	AC21B AC22B AC23B	AC21B AC22B AC23B
	1000 1000 1000	500 500 500	500 500 500	500 500 500	500 500 500	500 500 -	100 100 -
	1000 1000 1000	500 500 500	500 500 500	500 500 500	500 500 500	500 500 -	100 100 -
	1000 1000 1000	500 500 500	500 500 500	500 500 500	500 500 500	500 500 -	100 100 -
	1000 1000 1000	500 500 500	500 500 500	500 500 500	500 500 500	500 500 -	100 100 -
	1000 1000 1000	500 500 500	500 500 500	500 500 500	500 500 500	500 500 -	100 100 -
	DC21A DC22A DC23A	DC21A DC22A DC23A	DC21A DC22A DC23A	DC21A DC22A DC23A	DC21A DC22A DC23A	DC21B DC22B DC23B	DC21B DC22B DC23B
	1000 1000 1000	500 500 500	500 500 500	500 500 500	500 500 500	500 500 100	100 100 -
	1000 1000 1000	500 500 500	500 500 500	500 500 500	500 500 500	500 500 100	100 100 -
	■	■	■	■	■	■	■
	-	-	-	-	-	-	-
	■	■	■	■	■	■	■
	3	3	3	3	3	3	3
	-	-	-	-	-	-	-