

# Technical Data Ex9A25

In preparation...

## Air Circuit Breakers up to 2500 A

### General parameters

Compact design ACBs
Two values of breaking capacity $I_{cn}$ (65 and 85 kA)
Arbitrary choice of tripping unit SU

### Electrical parameters

	Ex9A25Q	Ex9A25R
Tested according to	IEC / EN 60947-2	
Rated operational voltage $U_e$	380 / 400 / 415 / 660 / 690 V AC	
Rated insulation voltage $U_i$	1000 V	
Rated impulse withstand voltage $U_{imp}$	12 kV	
Rated current $I_n$ at 40°C	630 / 800 / 1000 / 1250 / 1600 / 2000 / 2500 A	
Rated frequency $f$	50 / 60 Hz	
Rated ultimate short-circuit breaking capacity $I_{cu}$	65 kA / 415 V 40 kA / 690 V	85 kA / 415 V 50 kA / 690 V
Rated service short-circuit breaking capacity $I_{cs}$	65 kA / 415 V 40 kA / 690 V	85 kA / 415 V 50 kA / 690 V
Rated short-circuit making capacity $I_{cm}$	143 kA / 415 V 84 kA / 690 V	187 kA / 415 V 105 kA / 690 V
Rated short-circuit withstand current $I_{cw}$ for 1s	50 kA / 415 V 40 kA / 690 V	65 kA / 415 V 50 kA / 690 V
Rated current of N-pole $I_N$ in 4P ACB	100% x $I_n$	
Internal resistance per pole		
Poles	3P / 4P	
Breaking operation time	20 — 30 ms	
Closing operation time	< 70 ms	
Electrical service life	5000 operation cycles / 415 V 2500 operation cycles / 690 V	
Mechanical service life	12500 operation cycles without maintenance 25000 operation cycles with maintenance	
Utilization category	B	
Line voltage connection	arbitrary above or below (with external power supply for SU)	

### Mechanical parameters

	fixed	withdrawable
Device width (3P / 4P)	364 mm / 459 mm	377 mm / 472 mm
Device height	356 mm	430 mm
Device depth	298 mm	406 mm
Degree of protection	IP40	
Ambient temperature	-25°C — +60°C	
Storage temperature	- 40°C — +85°C (without SU) -25°C — +85°C (with SU)	
Altitude	< 2000 m	
Relative humidity	< 90 %	
Installation category	IV (main circuit) / III (secondary circuit)	
Pollution degree	3	
Main terminals surface coating	silver	
Weight (3P / 4P)	42 kg / 55 kg	86 kg / 106 kg

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### Power dissipation at 3P device

Rated current [A]	Fixed version	Withdrawable version
630 A	178 W	104 W
800 A	190 W	113 W
1000 A	237 W	124 W
1250 A	293 W	161 W
1600 A	435 W	232 W
2000 A	500 W	266 W
2500 A	560 W	300 W

### Temperature derating

T [°C]	$I_u(T)$ [A]						
	$I_n = 630$ A	$I_n = 800$ A	$I_n = 1000$ A	$I_n = 1250$ A	$I_n = 1600$ A	$I_n = 2000$ A	$I_n = 2500$ A
-5 — +40	630	800	1000	1250	1600	2000	2500
45	630	800	1000	1250	1600	2000	2500
50	630	800	1000	1250	1600	2000	2400
55	630	800	1000	1200	1500	1900	2350
60	630	800	950	1150	1400	1750	2250

### Altitude derating

Altitude	2000 m	3000 m	4000 m	5000 m
Impulse withstand voltage $U_{imp}$	3500 V	3150 V	2500 V	2000 V
Insulation voltage $U_i$	1000 V AC	800 V AC	700 V AC	600 V AC
Rated voltage $U_e$	690 V AC	580 V AC	500 V AC	400 V AC
Rated uninterrupted current $I_u$	$1 \times I_u(T)$	$0.96 \times I_u(T)$	$0.9 \times I_u(T)$	$0.85 \times I_u(T)$

### Secondary terminals

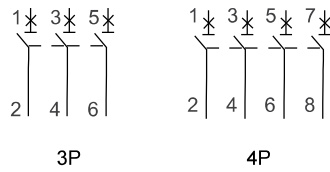
Secondary terminals	screwless
Terminals capacity	0,5 — 1,2 mm <sup>2</sup>

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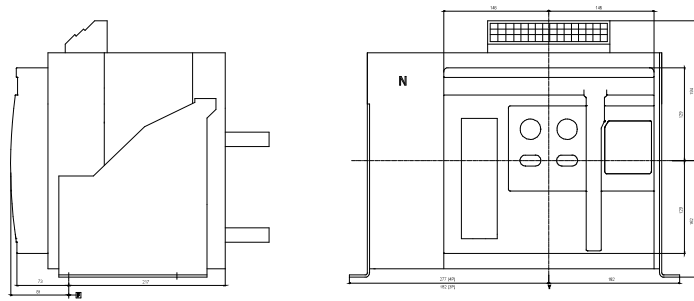
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### Main terminals wiring diagrams



### Dimensions - fixed version



X, Y - door cut-out centering  
F - minimum depth of mounting support panel

### Dimensions - withdrawable version

