

Temperature derating

Power dissipation

Temperature derating

The table below indicates the maximum current rating, for each connection type, as a function of T_i around the circuit breaker and the busbars.

For T_i greater than 60°C, consult us.

T_i : temperature around the circuit breaker and its connection.

Version	Draw-out										Fixed									
Connection	Rear horizontal					Rear vertical					Rear horizontal					Rear vertical				
Temp. T_i	40 °C	45 °C	50 °C	55 °C	60 °C	40 °C	45 °C	50 °C	55 °C	60 °C	40 °C	45 °C	50 °C	55 °C	60 °C	40 °C	45 °C	50 °C	55 °C	60 °C
MVS (50kA)																				
MVS08N	800					800					800					800				
MVS10N	1000					1000					1000					1000				
MVS12N	1250					1250					1250					1250				
MVS16N	1600					1600					1600					1600				
MVS20N	2000			1900	1800	2000			1900		2000			1920		2000				
MVS25N	2500				2450	2500					2500					2500				
MVS32N	3200		3100	3000	2900	3200					3200					3200				
MVS40N	4000		3900	3750	3650	4000			3900		4000			3900	3800	4000				
MVS (65kA)																				
MVS08H	800					800					800					800				
MVS10H	1000					1000					1000					1000				
MVS12H	1250					1250					1250					1250				
MVS16H	1600					1600					1600					1600				
MVS20H	2000			1900	1800	2000			1900		2000			1920		2000				
MVS25H	2500	2450	2400	2300	2200	2500		2450	2400	2300	2500					2500				
MVS32H	3200		3100	3000	2900	3200					3200					3200				
MVS40H	4000		3900	3750	3650	4000			3900		4000			3900	3800	4000				

Power dissipation

Total power dissipation is the value measured at I_N , 50/60 Hz, for a 3 pole or 4 pole breaker (values above the power $P = 3RI^2$). The resistance between input / output is the value measured per pole (cold state).

Type	Draw-out		Fixed	
50kA	Power loss (W)	Input/output resistance (μohm)	Power loss (W)	Input/output resistance (μohm)
MVS08N	120	36	60	19
MVS10N	180	36	100	19
MVS12N	280	36	140	19
MVS16N	460	36	200	19
MVS20N	470	30	250	13
MVS25N	600	19	260	13
MVS32N	670	13	420	8
MVS40N	900	11	650	8
65kA				
MVS08H	100	30	42	13
MVS10H	150	30	70	13
MVS12H	230	30	100	13
MVS16H	390	30	170	13
MVS20H	470	30	250	13
MVS25H	600	19	260	8
MVS32H	670	13	420	8
MVS40H	900	11	650	8