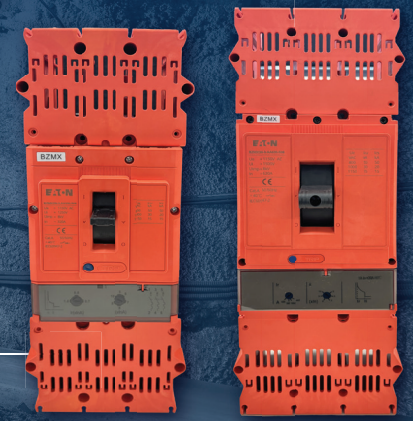


Enhanced breaking capacity for mining applications

BZMX 1000V Rock Breaker



BZMX2/3N thermomagnetic series molded case circuit breaker (AX: Thermo adjustable AA: Thermomagnetic adjustable)

			BZMX2N	BZMX3N
Number of poles			3P	3P
Control	Manual operation mechanism		■	■
	Electric operating mechanism		■	■
Connect	Front panel wiring		■	■
	Backboard wiring		—	—
	Plug and play type		—	—
	Drawer style		—	—
Electrical performance complies with IEC 60947-2				
Rated current of release I_n (A)			32, 63, 80, 100, 125, 160, 250, 320	400, 500, 630
Rated insulation voltage (V)		U_i	AC1250	AC1500
Rated impulse withstand voltage (kV)		U_{imp}	8	8
Rated working voltage (V)		U_e	AC800, AC1000, AC1150	AC800, AC1000, AC1150
Circuit breaker type			N	N
Rated ultimate short-circuit breaking capacity (kA)	I_{cu} AC 50/60 Hz	AC800V	50	50
		AC1000V	30	30
		AC1150V	15	15
Rated operating short-circuit breaking capacity (kA)	I_{cs} AC 50/60 Hz	AC800V	50	50
		AC1000V	20	20
		AC1150V	15	15
Usage category			A	A
Number of operation cycles (maintenance free)	Mechanical		12000	8000
	Electrical	AC800V, AC1000V, AC1150V	1000	1000
Protection unit				
Protection unit			Thermal magnetic	Thermal magnetic
Thermal adjustable magnetic fixation	AX		32, 63, 80	—
Thermomagnetic adjustable	AA	I_r (0.7 0.8 0.9)/ I_n (5-10)	100, 125, 160, 250, 320	400, 500, 630
Indicating and controlling attachments				
Alarm switch			■	■
Auxiliary switch			■	■
Shunt release			■	■
Install				
Attachment	Insulated base plate		■	■
	Interphase partition		■	■
Storage temperature			-40 °C ~ +70 °C	-40 °C ~ +70 °C
Working temperature			-40 °C ~ +70 °C	-40 °C ~ +70 °C
Size (mm)	Length x Width x Height		185 x 112.5 x 106.5	257 x 140 x 110

Mining Molded Case Circuit Breaker

Power loss

Frame	I_n (A)	Total power loss of three phases (W) Fixed rear connection
BZMX2N	320	47
BZMX3N	630	96

High temperature derating table

Frame	+40°C	+45°C	+50°C	+55°C	+60°C	+65°C	+70°C
BZMX2N	1.0I _n	0.98I _n	0.96I _n	0.94I _n	0.92I _n	0.91I _n	0.88I _n
BZMX3N	1.0I _n	0.97I _n	0.96I _n	0.93I _n	0.91I _n	0.89I _n	0.87I _n

High altitude derating table

Altitude (m)	2000	2500	3000	3500	4000	4500	5000
Power frequency withstand voltage (V)	3000	3000	2500	2400	2200	2100	2000
Rated insulation voltage (V)	1150	1150	1030	970	920	880	835
Rated operational voltage (V)	1150	1150	1030	970	920	880	835
Short circuit breaking capacity correction factor	1(=1xI _{cu} ,1xI _{cs})	1	0.9	0.82	0.78	0.75	0.7
Rated operational current correction factor	1(=1xI _n)	1	0.98	0.97	0.96	0.95	0.94

