

Switching and Protection




Circuit Breaker BZM1
Circuit Breaker BZM2



Circuit breakers BZM1 / BZM2 (3-Pole)

Rated current = rated uninterrupted current $I_n = I_u$ A

Short circuit releases
/
A


Switching capacity 15kA at 415 V 50/60 Hz
Part no. / Article no.
1 of each

Switching capacity 18kA at 415 V 50/60 Hz
Part no. / Article no.
1 of each

Switching capacity 25kA at 415 V 50/60 Hz
Part no. / Article no.
1 of each

Protection of systems and cables

2-Pole

Cable Lug Terminal



16	256 - 384	BZMD1-2-A16	129806	BZME1-2-A16	129912	BZMB1-2-A16	112583
20	256 - 384	BZMD1-2-A20	129808	BZME1-2-A20	129914	BZMB1-2-A20	112585
25	320 - 480	BZMD1-2-A25	129880	BZME1-2-A25	129916	BZMB1-2-A25	112587
32	320 - 480	BZMD1-2-A32	129882	BZME1-2-A32	129918	BZMB1-2-A32	112589
40	320 - 480	BZMD1-2-A40	129884	BZME1-2-A40	129920	BZMB1-2-A40	112591
50	480 - 720	BZMD1-2-A50	129886	BZME1-2-A50	129922	BZMB1-2-A50	112593
63	480 - 720	BZMD1-2-A63	129888	BZME1-2-A63	129924	BZMB1-2-A63	112595
80	800 - 1200	BZMD1-2-A80	129890	BZME1-2-A80	129926	BZMB1-2-A80	112597
100	800 - 1200	BZMD1-2-A100	129892	BZME1-2-A100	129928	BZMB1-2-A100	112599

Box terminal



16	256 - 384	BZMD1-2-A16-BT	129894	BZME1-2-A16-BT	129930	BZMB1-2-A16-BT	112603
20	256 - 384	BZMD1-2-A20-BT	129896	BZME1-2-A20-BT	129932	BZMB1-2-A20-BT	112605
25	320 - 480	BZMD1-2-A25-BT	129898	BZME1-2-A25-BT	129934	BZMB1-2-A25-BT	112607
32	320 - 480	BZMD1-2-A32-BT	129900	BZME1-2-A32-BT	129936	BZMB1-2-A32-BT	112609
40	320 - 480	BZMD1-2-A40-BT	129902	BZME1-2-A40-BT	129938	BZMB1-2-A40-BT	112611
50	480 - 720	BZMD1-2-A50-BT	129904	BZME1-2-A50-BT	129940	BZMB1-2-A50-BT	112613
63	480 - 720	BZMD1-2-A63-BT	129906	BZME1-2-A63-BT	129942	BZMB1-2-A63-BT	112615
80	800 - 1200	BZMD1-2-A80-BT	129908	BZME1-2-A80-BT	129944	BZMB1-2-A80-BT	112617
100	800 - 1200	BZMD1-2-A100-BT	129910	BZME1-2-A100-BT	129946	BZMB1-2-A100-BT	112619

3 - Pole

Cable Lug Terminal



16	256 - 384	BZMD1-A16	111526	BZME1-A16	111527	BZMB1-A16	111528
20	256 - 384	BZMD1-A20	111529	BZME1-A20	111530	BZMB1-A20	111531
25	320 - 480	BZMD1-A25	111532	BZME1-A25	111533	BZMB1-A25	111534
32	320 - 480	BZMD1-A32	111535	BZME1-A32	111536	BZMB1-A32	111537
40	320 - 480	BZMD1-A40	111538	BZME1-A40	111539	BZMB1-A40	111540
50	480 - 720	BZMD1-A50	111541	BZME1-A50	111542	BZMB1-A50	111543
63	480 - 720	BZMD1-A63	111544	BZME1-A63	111545	BZMB1-A63	111546
80	800 - 1200	BZMD1-A80	111547	BZME1-A80	111548	BZMB1-A80	111549
100	800 - 1200	BZMD1-A100	111550	BZME1-A100	111551	BZMB1-A100	111552

Box Terminal



16	256 - 384	BZMD1-A16-BT	111553	BZME1-A16-BT	111554	BZMB1-A16-BT	111555
20	256 - 384	BZMD1-A20-BT	111556	BZME1-A20-BT	111557	BZMB1-A20-BT	111558
25	320 - 480	BZMD1-A25-BT	111559	BZME1-A25-BT	111560	BZMB1-A25-BT	111561
32	320 - 480	BZMD1-A32-BT	111562	BZME1-A32-BT	111563	BZMB1-A32-BT	111564
40	320 - 480	BZMD1-A40-BT	111565	BZME1-A40-BT	111566	BZMB1-A40-BT	111567
50	480 - 720	BZMD1-A50-BT	111568	BZME1-A50-BT	111569	BZMB1-A50-BT	111570
63	480 - 720	BZMD1-A63-BT	111571	BZME1-A63-BT	111572	BZMB1-A63-BT	111573
80	800 - 1200	BZMD1-A80-BT	111574	BZME1-A80-BT	111575	BZMB1-A80-BT	111576
100	800 - 1200	BZMD1-A100-BT	111577	BZME1-A100-BT	111578	BZMB1-A100-BT	111579

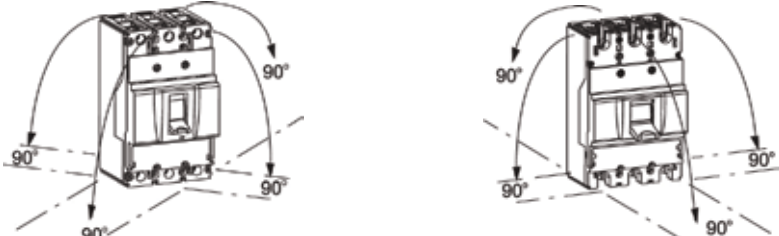
3 - Pole

Cable Lug Terminals



125	1400 - 2100	BZMD2-A125	119733	BZME2-A125	119734	BZMB2-A125	119735
160	1400 - 2100					BZMB2-A160	116973
200	1400 - 2100					BZMB2-A200	116974
250	1400 - 2100					BZMB2-A250	116975

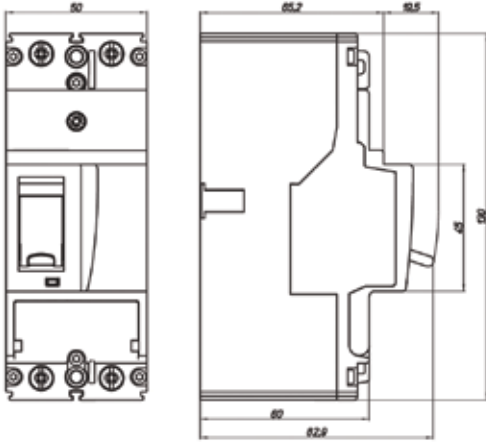
Technical Data BZM1, BZM2

TECHNICAL SPECIFICATIONS	Rated current max. 125 A BZM1	Rated current max. 250 A BZM2
Mechanical specifications		
Standard	IEC/EN 60947-2	IEC/EN 60947-2
Number of poles	2, 3, 4	3
Device width	2-pole: 50mm, 3-pole: 75mm, 4-pole: 100mm	3-pole: 105mm
Frame size	45mm	45mm
Socket size	130mm	165mm
Device depth	84.7mm	91,5mm
Terminals	Lift terminal, ring tongue connector	ring tongue connector
Terminal capacity lift terminal	rigid (solid/stranded) and flexible wire (2.5 - 50)	-
Terminal capacity ring tongue	Diameter: max. 15mm	Diameter: max. 24mm
Busbar thickness	-	max. 8mm
Terminal screw	M6 (Pozidriv PZ2)	M8
Terminal torque	max. 4 Nm	max. 14 Nm
Degree of Protection (DIN VDE 0470)	Built-in behind panel IP40	Built-in behind panel IP40
Climatic conditions	acc. to IEC 68-2 (25..55°C / 90..95% RH)	acc. to IEC 68-2 (25..55°C / 90..95% RH)
Ambient temperature - Storage	-35 ... +85	-35 ... +85
Ambient temperature - Operation	-25 ... +70	-25 ... +70
Mounting positions	Vertical and 90° in all directions	Vertical and 90° in all directions
		
Protection System - Enclosures	With insulating surround: IP40	With insulating surround: IP40
Number of mechanical operating cycles	> 10.000	> 8.000
Pollution degree	3	3
Electrical specifications		
Rated operational voltage	400 / 415, 50/60 Hz	400 / 415, 50/60 Hz
Rated current	16, 20, 25, 32, 40, 50, 63, 80, 100, 125	125, 160, 200, 250
Rated impulse withstand voltage	6000 (1.2/50 µsec)	6000 (1.2/50 µsec)
Overtoltage category	III	III
Rated insulation voltage	690	690
For use in IT electrical power networks	400 / 415	400 / 415
Direction of incoming supply	As required	As required
Number of electrical operating cycles	> 1.500	1.000
Tripping characteristic		
Conventional non-tripping current	$I_{nt} = 1.05 I_n$	$I_{nt} = 1.05 I_n$
Conventional tripping current	$I_t = 1.30 I_n$	$I_t = 1.30 I_n$
Reference temperature	30 °C	30 °C

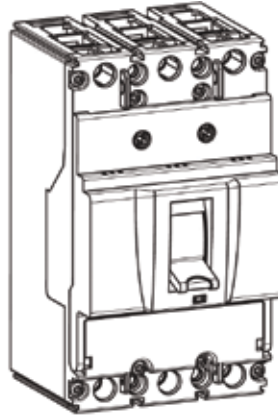
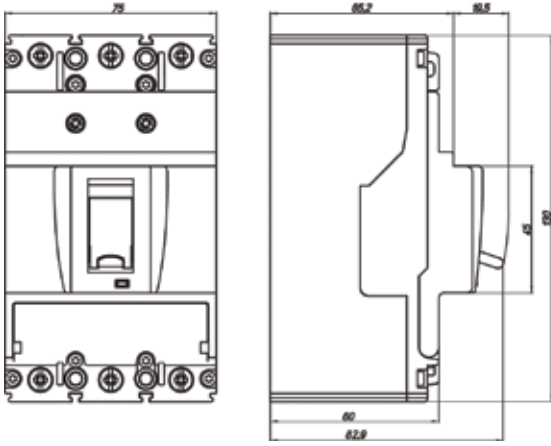
Technical Data BZM1, BZM2

TECHNICAL SPECIFICATIONS	BZMD1	BZME1	BZMB1	BZMC1	BZMB2	BZMC2
Switching capacity						
Rated short-circuit breaking capacity						
I_{cu} to IEC/EN 60947 operating sequence 0-t-CO, 400/415 V 50/60 Hz	15	18	25	36/400VAC	25	36
I_{cs} to IEC/EN 60947 operating sequence 0-t-CO-t-CO, 400/415 V 50/60 Hz	7.5	9	12.5	18/9*/400VAC	12.5	9
Utilization category to IEC/EN 60947-2 *9kA/400VAC at $I_n=80, 100A$	A	A	A	A	A	A

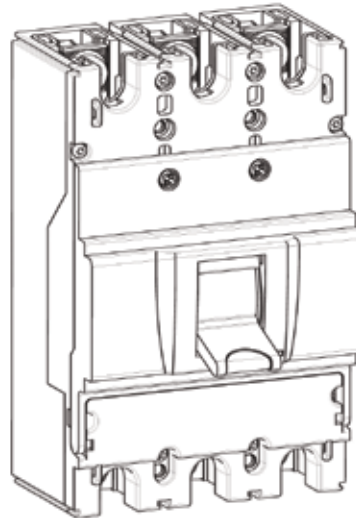
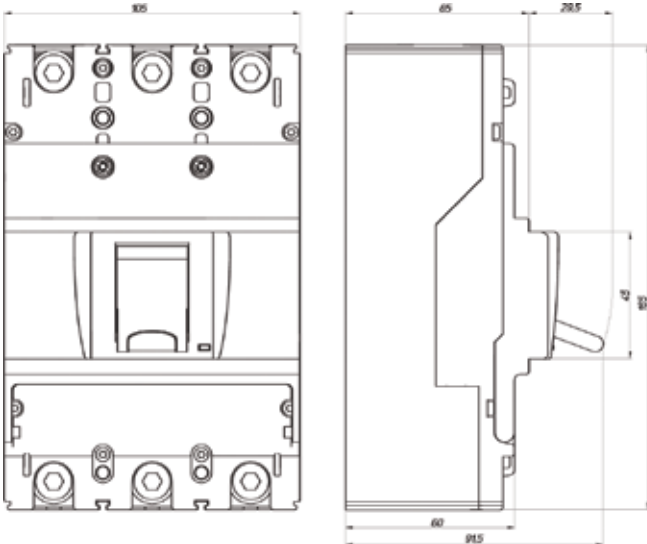
Dimensions BZM1, BZM2



Circuit breaker BZM1 3-pole



Circuit breaker BZM2 3-pole

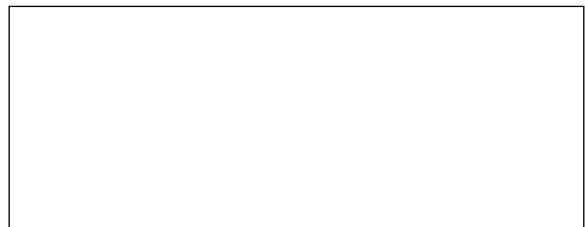


In 2008, Eaton acquired the Moeller Group, strengthening its global IEC control portfolio. Today that broad offering of IEC control components is available globally under the Eaton brand.

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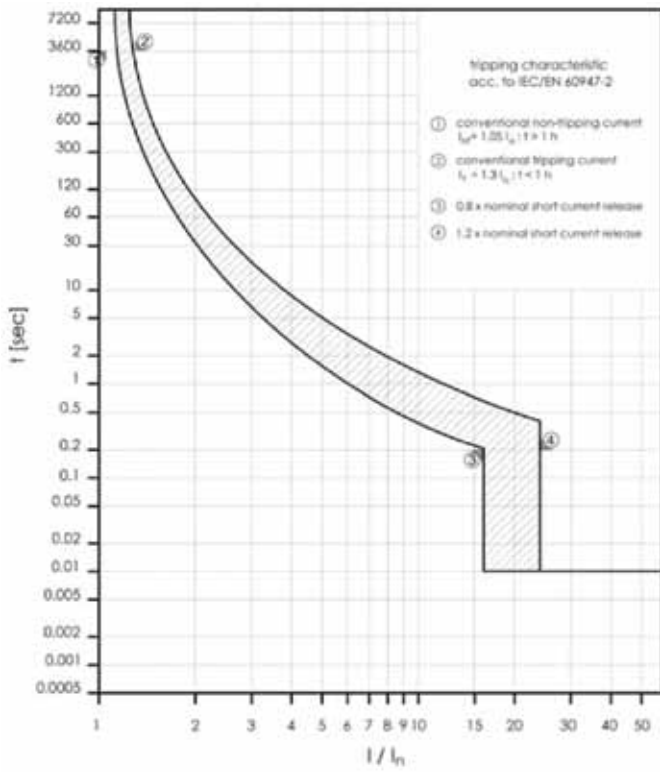
For more Information, please kindly contact:

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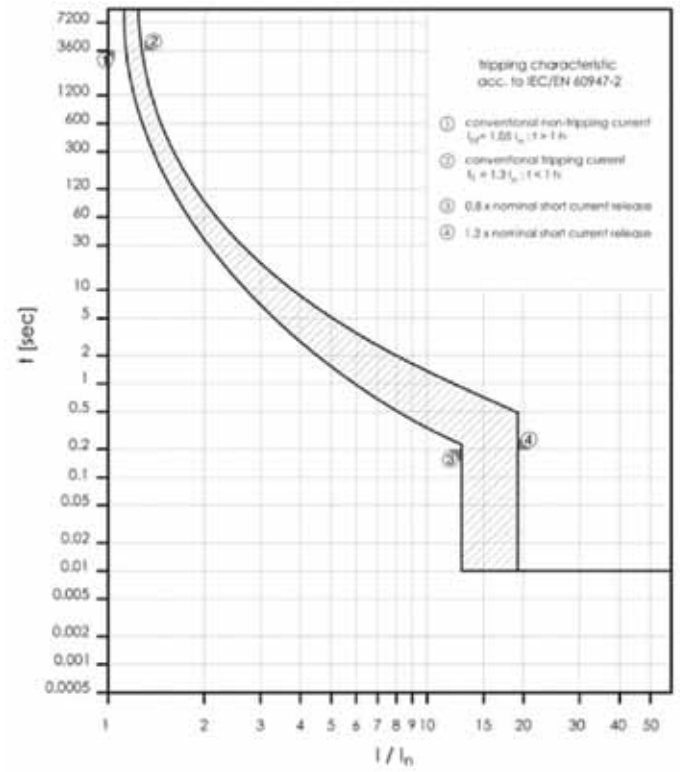


Tripping Current Curves BZM1

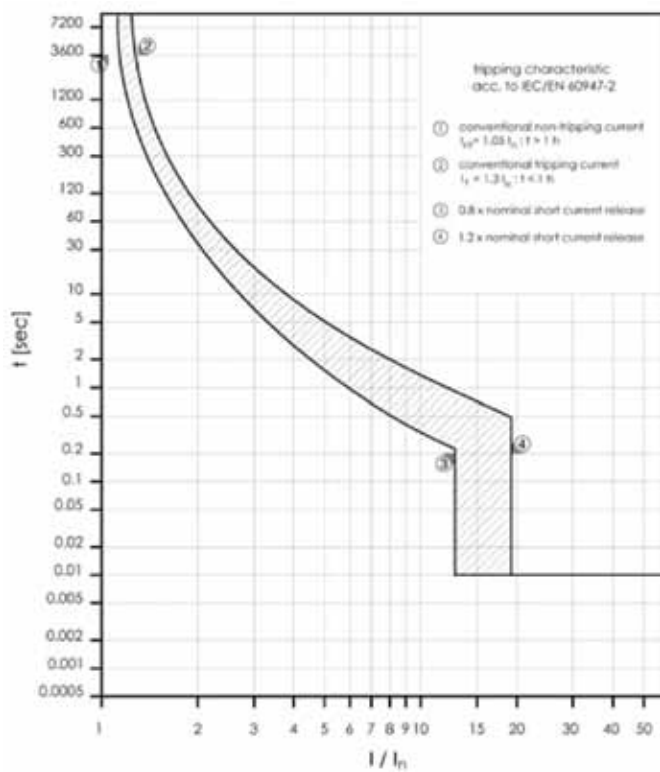
Tripping Curve BZM1 16A, 3-pole



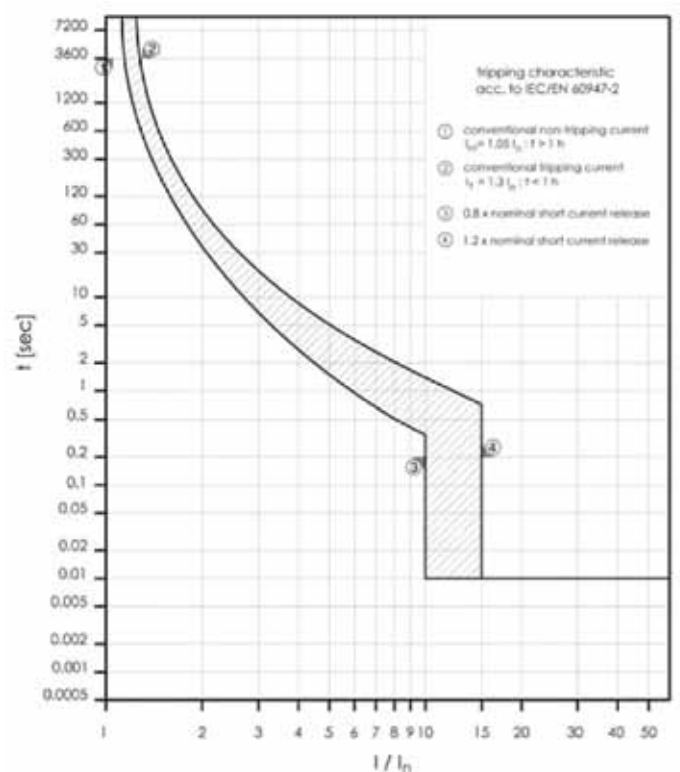
Tripping Curve BZM1 20A, 3-pole



Tripping Curve BZM1 25A, 3-pole

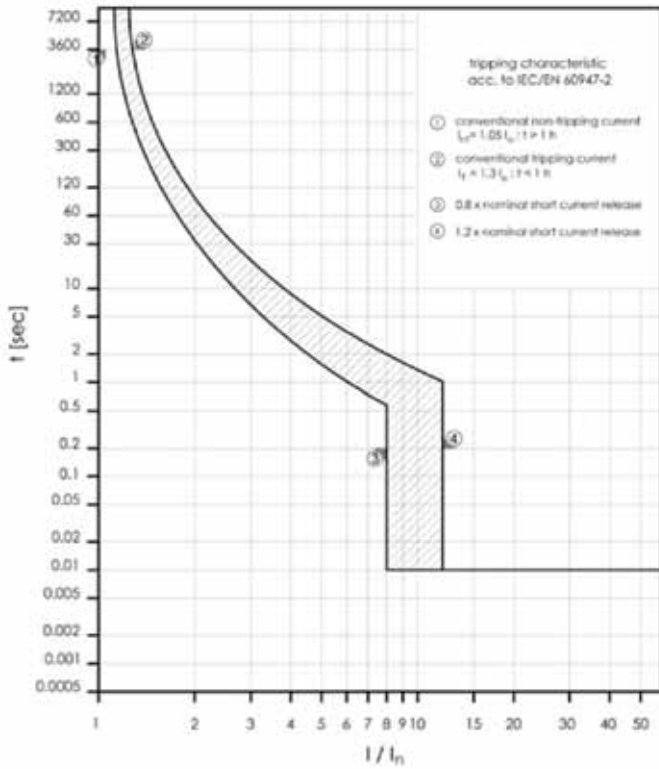


Tripping Curve BZM1 32A, 3-pole

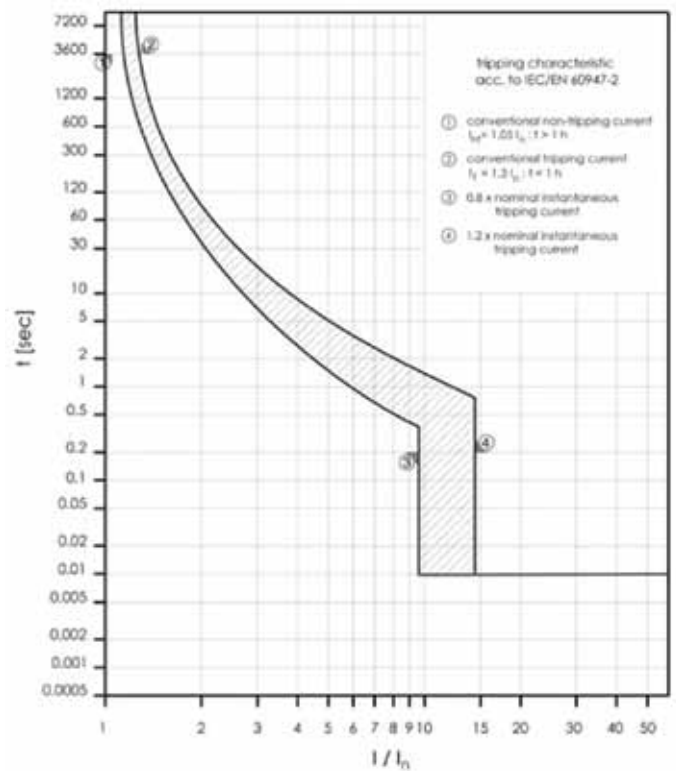


Tripping Current Curves BZM1

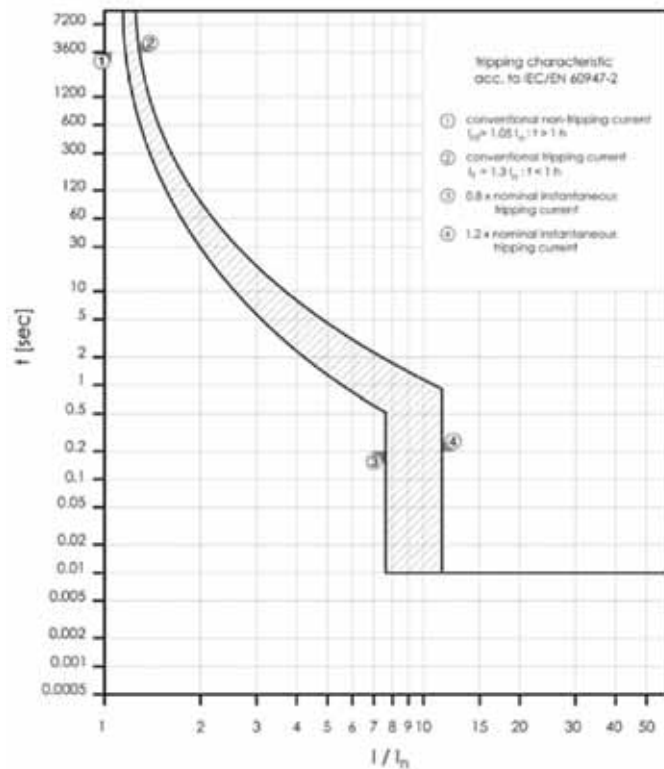
Tripping Curve BZM1 40A, 3-pole



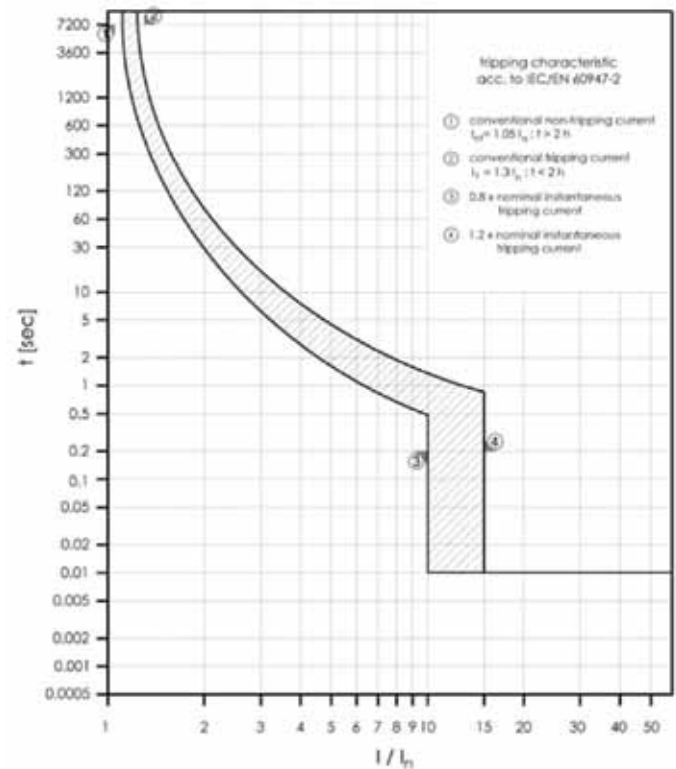
Tripping Curve BZM1 50A, 3-pole



Tripping Curve BZM1 63A, 3-pole

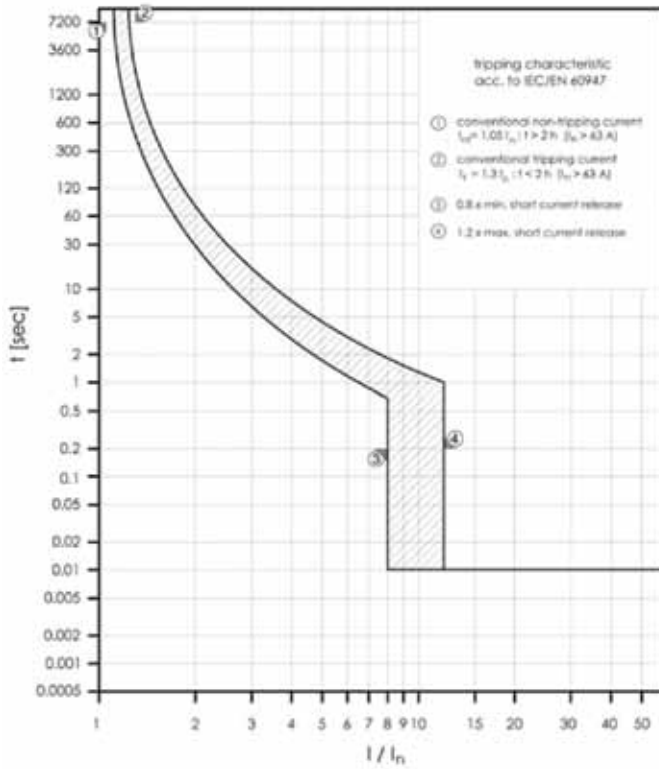


Tripping Curve BZM1 80A, 3-pole

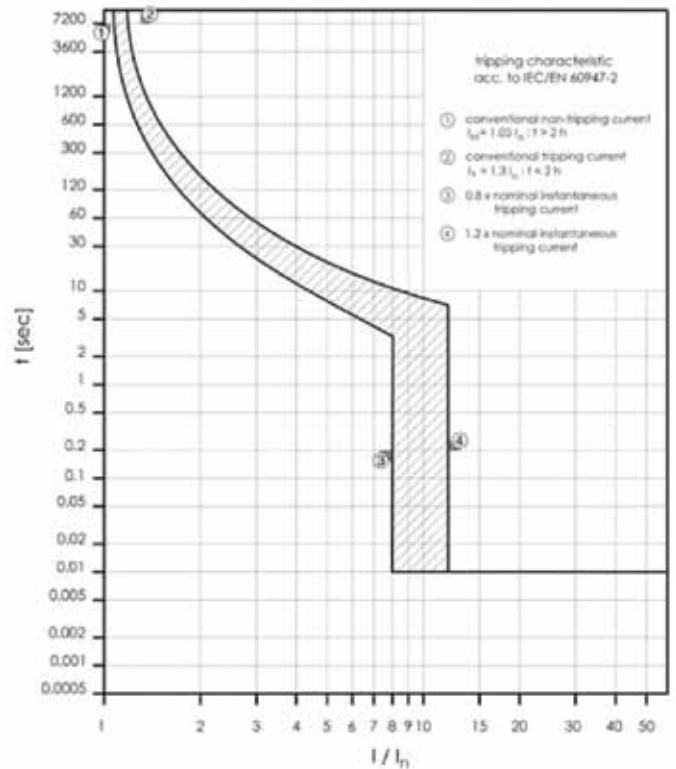


Tripping Current Curves BZM1, BZM2

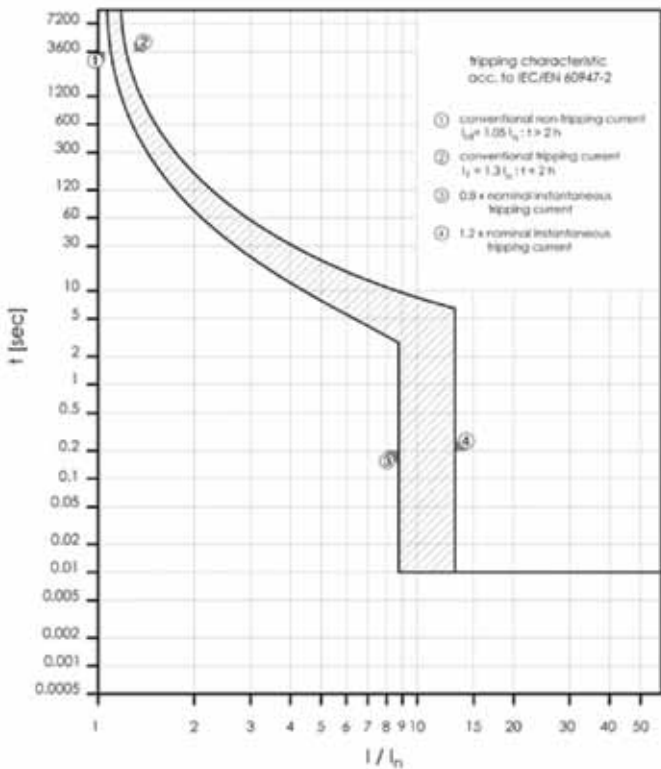
Tripping Curve BZM1 100A, 3-pole



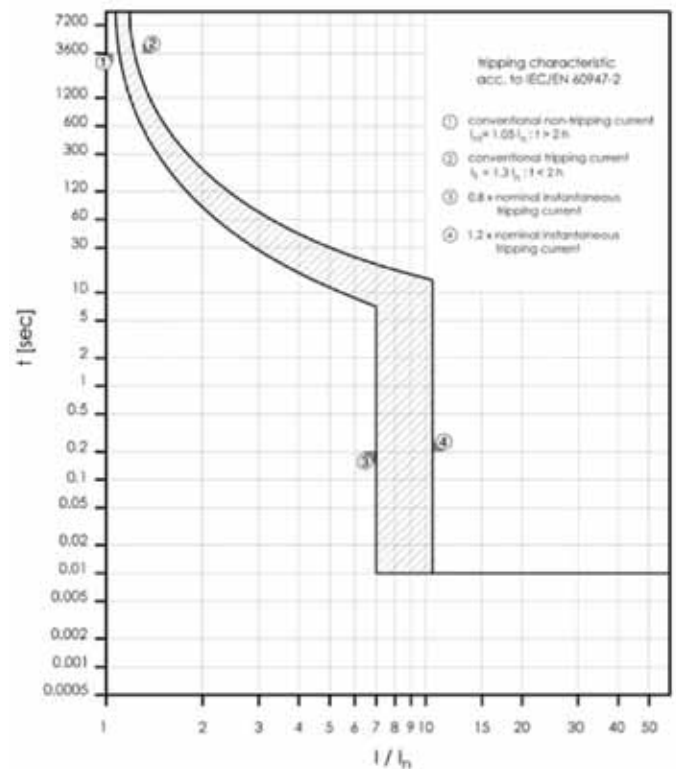
Tripping Curve BZM2 125A



Tripping Curve BZM2 160A

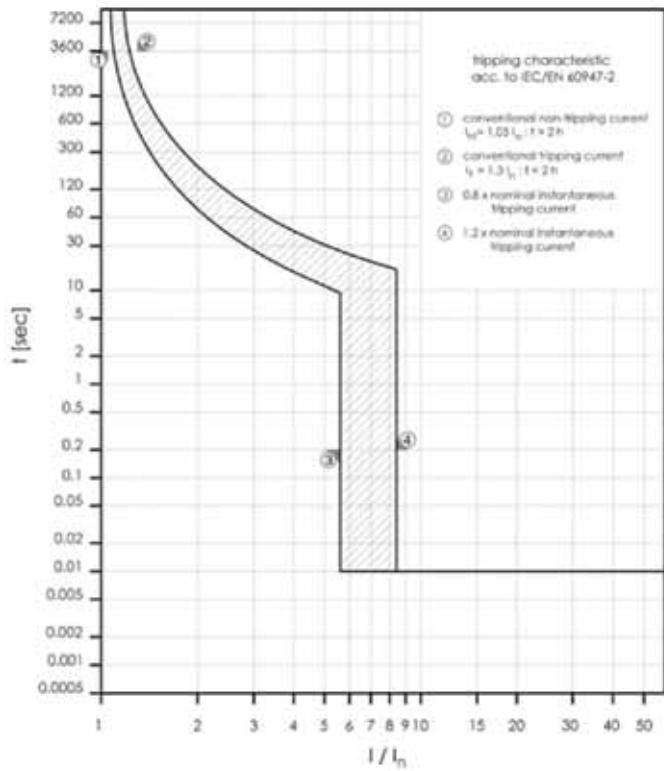


Tripping Curve BZM2 200A



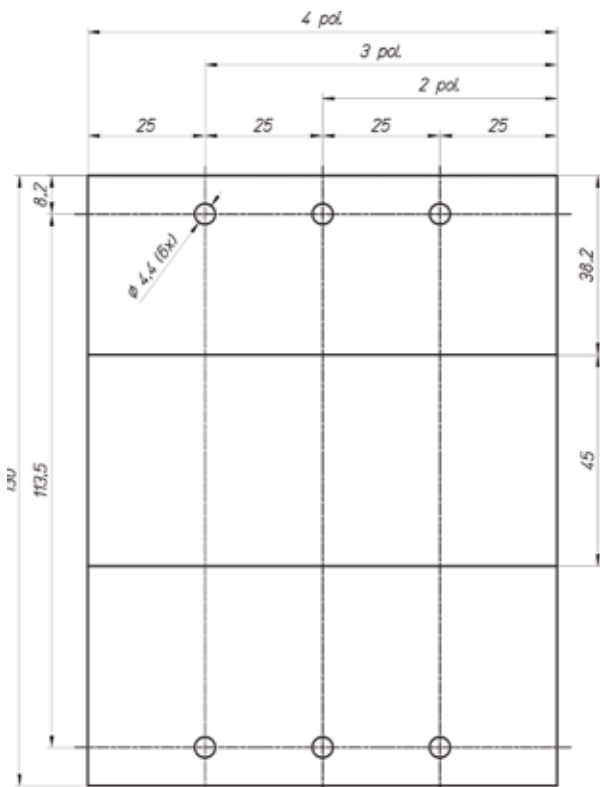
Tripping Current Curves BZM2

Tripping Curve BZM2 250A



Mounting Holes BZM1, BZM2

Mounting holes BZM1



Mounting holes BZM2

