EPiK

CIRCUIT BREAKER PANEL

Features:

- Class I, Division 2, Zone 1 certified circuit breaker panel
- Using explosion-protected components, such as Circuit Breakers (Meeting UL489), GFIs and GFCIs
- Perfect for applications requiring overcurrent and short-circuit protection for power, lighting, and heat tracing
- 316 SS enclosure provides high corrosion resistance, extending the life and safety of the system
- Enclosure provides flexibility for entries. No factory drilling or tapping required.
- No cable or conduit seals are required, allowing for fast installation and lowering overall installation cost.
- Cost effective solution due to proximity to equipment, reduction of wiring length and size, reduction on weight and mounting structures, easy and safe access minimizing maintenance and more.

EPiK Circuit Breakers

EXPLOSION-PROTECTED CIRCUIT BREAKER PANEL

CLASSIFICATIONS

NEC®

Main Lug Only (Terminals)
- Class I, Zones 1 & 2, Group IIC, T4
- Class I, Division 2, Groups A,B,C,D, T4

With Main Breakers
- Class I, Division 2, Groups B,C,D, T4
- Class II, Division 2, Groups F,G

Canadian Electrical Code

Main Lug Only (Terminals)
- Class I, Zones 1 & 2, Group IIC, T4
- Class I, Division 2, Groups A,B,C,D, T4

With Main Breakers
- Class I, Division 2, Groups C,D, T4
- Class II, Division 2, Groups F,G

Enclosure Type 3, 4, 4X, IP66

Power Distribution Breaker Panel is custom made per customer's requirements. Available with 12, 18, 24, 36 or 42 branch circuits.

Each branch is defined per application and can have a mixture of 1-, 2-, 3-pole breaker, GFI, GFEP, or GFCI.

Main power voltage defined per application with option of main breaker or main lug only.

Contact your R. STAHL representative to discuss your requirements and configure your EPiK panel.

EPiK is engineered specifically for hazardous locations and outdoor environments, such as Class I, Division 2, Groups A,B,C,D & T4, and Class II, Division 2, Groups F,G, and Zone 2 IIC. It is ideal for use in refineries, LNG liquefaction plants, oil sands, chemical and petrochemical facilities, and wastewater facilities with indoor or outdoor installation. These panels are suitable for applications that require overcurrent and short circuit protection for power, lighting, and heat tracing, and it features explosion-protected components.

Enclosure

The enclosure of the panel is made of 316L stainless steel material, providing high corrosion resistance for extended lifespan and improved safety of the system. The panel comes prewired to terminals, making installation easier. The breakers have external handles to eliminate the need to open the 316L SS enclosure. The seamless silicone foam in place gaskets exclude contaminants and liquids, ensuring the long life of interior components. The panel has a standard bottom entry design that reduces the risk of moisture ingress. Top entry is available upon request.

Explosion-Protected Components

EPiK utilizes R. STAHL series of circuit breakers with 10 kA short circuit ratings, meeting all necessary North American requirements including UL489. It also offers 5 mA and 30 mA GFIs, GFEP and GFCIs for ground fault protection. Main breakers are available for up to 125 Amps as 1-, 2- or 3- pole, providing flexibility in design. Each component is explosion-protected by means of flameproof housing made of non-metallic materials allowing for great heat dissipation and factory-made flame path that is inaccessible to the users, guaranteeing Ex protection at all times. For a main breaker between 150 A and 225 A, a solution is also possible using CUBEx to protect the main breaker.

Advantages

EPiK offers several advantages over traditional explosionproof cast systems. It eliminates the need of conduit seals, eliminates the need to remove dozens of bolts, it is a lightweight panel reducing the need for expensive lift equipment. Due to being 316L SS material, the panel can be installed outdoors, closer to the field, minimizing cable length and cable size. All these features translate into fast installation and lower overall cost.

Safety Features

EPiK is designed with finger-safe construction to prevent accidental contact with live parts. The breaker external handles can be requested as padlockable for added safety. The 316L SS enclosure can be open without losing the explosion protection; this is because the protection comes from each component and not from the 316L SS housing.

Logic

Description: 36 Circuit Panel, 208 /120 V with a 225 Amp Main Breaker and (24) 1-pole 20 Amp Breaker, (2) 1-pole 20 Amp EPD, (2) 1-pole 30 Amp Breaker with a Drain, Internal Ground Bar and External Handles

Example 7150/5-

5-	2-	MB225-	241P20- 21P20EPD- 21P30-	D-IGB-EH

Number of Circuits

1 = 12
2 = 18
3 = 24
4 = 30
5 = 36
6 = 42

Wiring System

1 = 240 / 120 V (1 PH - 3 W)
2 = 208 / 120 V (3 PH - 4 W
3 = 480Y / 277 V (3 PH - 4 W)

Main Lug / Main Breaker Size

MLO100 = 100 Amp Main Lug Only (Terminals)
MLO150 = 150 Amp Main Lug Only (Terminals)
MLO225 = 225 Amp Main Lug Only (Terminals)
MB100 = 100 Amp Main Breaker
MB125 = 125 Amp Main Breaker
MB225 = 225 Amp Main Breaker
MBxxx = xxx Amp Main Breaker (Specify Amp Rating)
BF = Back Fed Main (40 A Max)*
*Subtract the required space from number of circuits in system, 40A maximum.

Branch Breaker (Qty, Poles, Amp)

xx = Number of Breakers
1P = 1 Pole Breaker
2P = 2 Pole Breaker
3P = 3 Pole Breaker
yy = Amp Rating of Breaker
EPD = 30 mA Breaker * - 120 Vac 1P+N
GFCI = 5mA Breaker * - 120 Vac 1P+N
GFI = 30mA Interrupter* - No Overcurrent
480Y / 277 V AC
*Takes 2 circuits

Options

Suffix for options must be listed.

Main Breaker Option:
Aux. Switch 1 NO / 1 NC **(AS1)**
Aux. Switch 2 NO / 2 NC **(AS2)**
Undervoltage Release **(UV)**
Bell Alarm **(BA)**
Shunt Trip **(ST)**

Panel Options:
Breather \ Drain **(D)**
External Grounding Stud **(EGS)**
External Handles **(EH)**
Load Side Wiring to Terminals **(FW)**
Gland Plate Top **(GPT)**
Gland Plate Right **(GPR)**
Gland Plate Left **(GPL)**
Gland Plate Bottom **(GPB)**
Additional Contactor (LC)

Control Devices:
Space Heater **(SH)**
Thermostat **(TS)**

Main Panel Nameplate:
Standard: Gravoply nameplate size 2"x 4" **(SMPN)**
Option: Stainless nameplate size 2"x 4" **(OMPN)**

Branch Breaker Nameplate:
Standard: Gravoply nameplate **(SBBN)**
Option: Stainless nameplate **(OBBN)**

Breaker Information

MCB - 10 A - 60 A
EPD - 15 A, 20 A, 30 A
GFCI - 15 A, 20 A, 25 A, 30 A
GFI- Consult Factory

Please consult factory for other configuration
Not all configurations are possible. R. STAHL quotation engineer will review your request and provide the best solution.

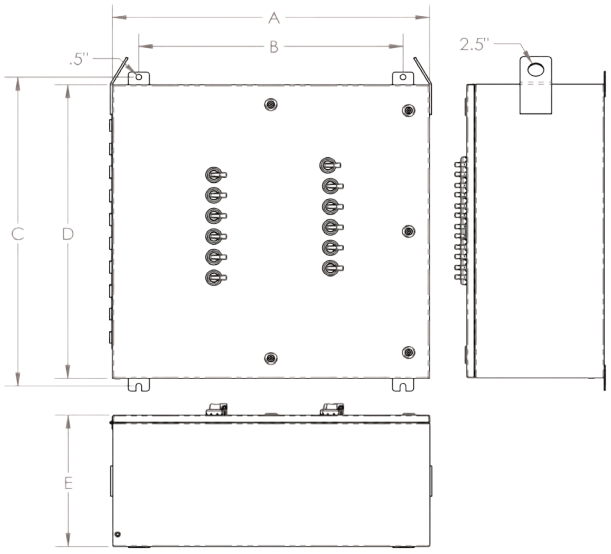
Dimensional Drawings in mm - Subject to Alterations

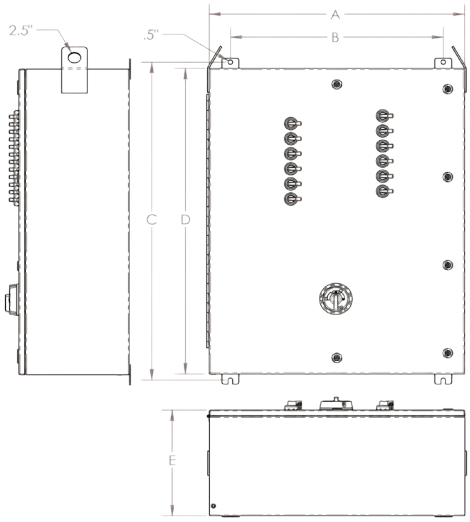
Weights and sizes subject to change.

Main Lug Only

Main Lug Only								Lug Sizes	
Circuits	Frame	Dimensions (inches)					Weight* (lbs)	Line	Load**
		A	B	C	D	E			
12	100	30	25	31.5	29	13	145	#4 - 250	#26 - #8
18	100	30	25	36.5	35	13	158	#4 - 250	#26 - #8
24	150	30	25	42.5	41	13	198	#4 - 250	#26 - #8
30	225	30	25	48.5	47	13	230	#6 - 350	#26 - #8
36	225	30	25	55.5	53.7	13	259	#6 - 350	#26 - #8
42	225	30	25	61.5	60	13	330	#6 - 350	#26 - #8

*Please note this is an approximate weight.
**When ordered with suffix LT or FW.





Main Breaker Panel

Main Breaker Panels								Lug Sizes	
Circuits	Frame	Dimensions (inches)					Weight* (lbs)	Line	Load**
		A	B	C	D	E			
12	100	30	25	39	37.5	13	239	#4 - 250	#26 - #8
18	100	30	25	46	44.5	13	260	#4 - 250	#26 - #8
24	150	30	25	53	51.5	13	297	#4 - 250	#26 - #8
30	225	30	25	60	58.5	13	331	#6 - 350	#26 - #8
36	225	30	25	67	65.5	13	361	#6 - 350	#26 - #8
42	225	30	25	73	71.5	13	431	#6 - 350	#26 - #8

*Please note this is an approximate weight.
**When ordered with suffix LT or FW.

NOTES

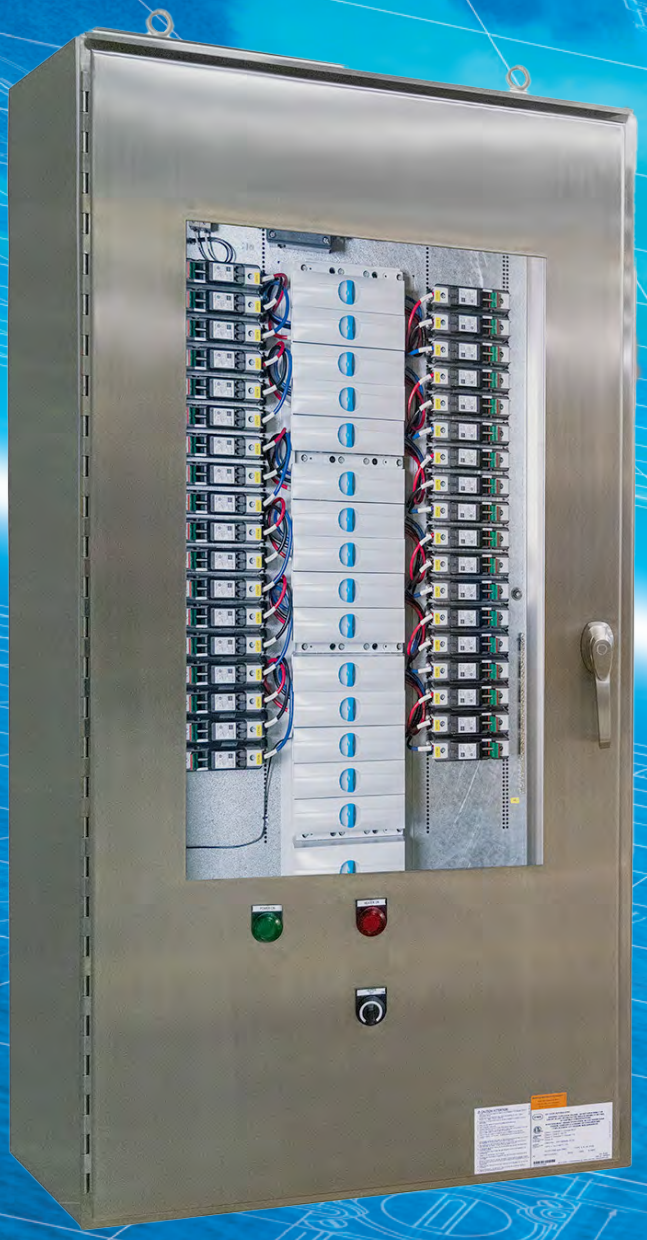
NOTES

NOTES

NOTES

BROZ

CIRCUIT BREAKER PANEL



Features:

- Class I, Division 2, Zone 2 certified circuit breaker panel
- Using explosion-protected components, such as Circuit Breakers (Meeting UL489), GFIs and GFCIs
- Perfect for applications requiring overcurrent and short-circuit protection for power, lighting, and heat tracing
- 304 SS enclosure with window and easy access via ¼" latch handle
- Enclosure provides flexibility for entries. No factory drilling or tapping required.
- No cable or conduit seals are required, allowing for fast installation and lowering overall installation cost.
- Cost effective solution due to proximity to equipment, reduction of wiring length and size, reduction on weight and mounting structures, easy and safe access minimizing maintenance and more.

BROZ

CIRCUIT BREAKER PANEL

CLASSIFICATIONS

NEC®

Main Lug Only (Terminals)
- Class I, Division 2, Groups A,B,C,D, T4*
- Class I, Zone 2, IIC, T4*

With Main Breaker - 8550 MCCB up to 125 A
- Class I, Division 2, Groups A,B,C,D, T4*
- Class I, Zone 2, IIC, T4*

With Main Breaker - 8264 MCCB up to 250 A
- Class I, Division 2, Groups B,C,D, T4*
- Class I, Zone 2, IIB, T4*

Canadian Electrical Code

Main Lug Only (Terminals)
- Class I, Division 2, Groups A,B,C,D, T4*
- Class I, Zone 2, IIC, T4*

With Main Breaker - 8550 MCCB up to 125 A
- Class I, Division 2, Groups A,B,C,D, T4*
- Class I, Zone 2, IIC, T4*

With Main Breaker - 8264 MCCB up to 250 A
- Class I, Division 2, Groups C,D, T4*
- Class I, Zone 2, IIB, T4*

104936920DAL-004 UL121201

Enclosure Type 3, 4, 4X, IP66

* T4 without heater and T3 with heater

Power Distribution Breaker Panel is custom made per customer's requirements. Available is 12, 24, 42 or 60 branches.

Each branch is defined per application and can have a mixture of 1-, 2-, 3-pole breakers, GFIs, GFEPs, or GFCIs.

Main power voltage defined per application with option of main breaker or main lug only.

Contact your R. STAHL representative to discuss your requirements and configure your BROZ panel.

BROZ is engineered specifically for hazardous locations and outdoor environments, such as Class I, Division 2 Groups C, D, and Zone 2 IIC. A heater option can easily be added providing a -40° operating temperature. It is ideal for use in refineries, LNG liquefaction plants, oil sands, chemical and petrochemical facilities. These panels are suitable for applications that require overcurrent and short circuit protection for power, lighting, and heat tracing utilizing explosion-protected components.

Enclosure

The enclosure of the panel is made of 304 stainless steel with a front window, providing clear visualization of the breaker position and easily accessible via ¼ turn 3-point latching system. The panel comes prewired to terminals, making installation easier. The breakers can be padlockable in the off position via integral locking provision or via accessory. The seamless pour-in-place foam gaskets exclude contaminants and liquids, ensuring the long life of interior components. The panel has a standard bottom entry design that reduces the risk of moisture ingress. Top entry is available upon request.

Explosion-Protected Components

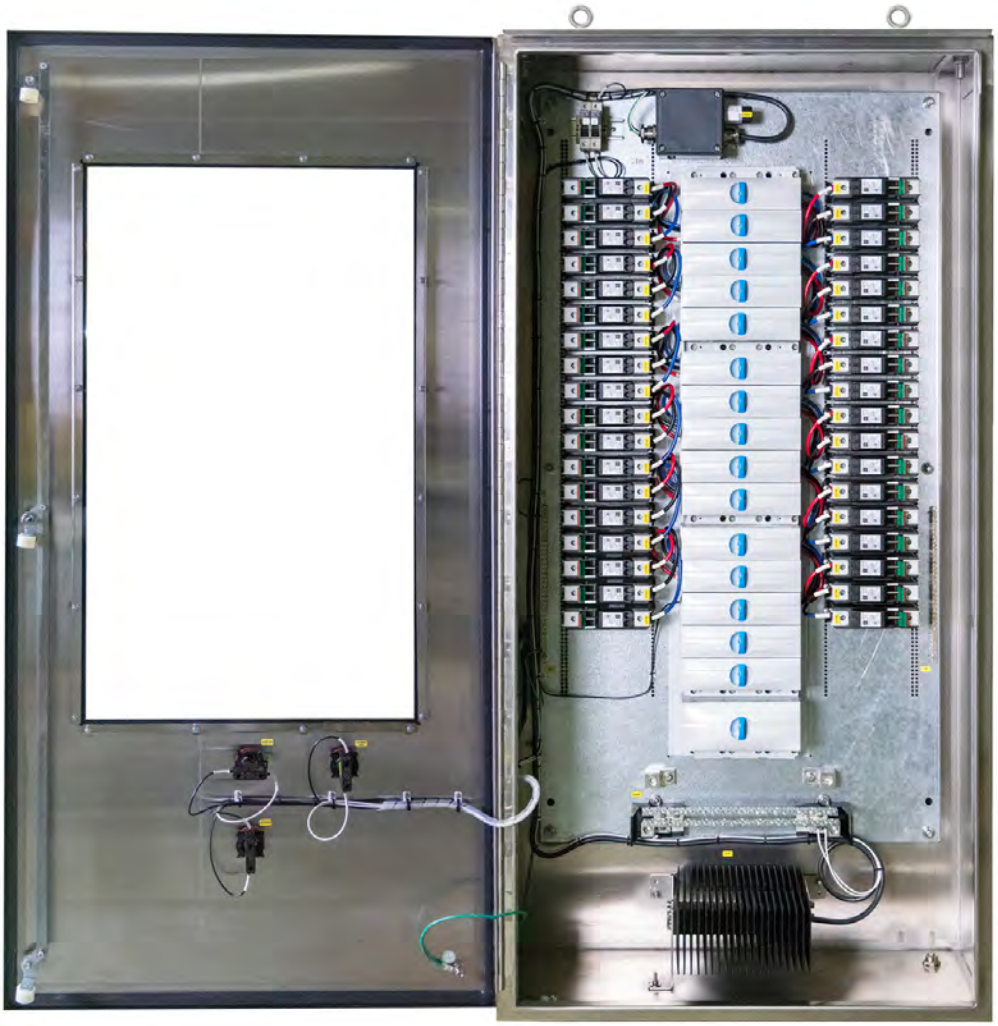
BROZ utilizes R. STAHL series of circuit breakers with 10 kA short circuit ratings, meeting all necessary North American requirements including UL489. It also offers 5 mA and 30 mA GFIs, GFEPs and GFCIs for ground fault protection. Main breakers are available for up to 125 Amps as 1-, 2- or 3- pole, providing flexibility in design. Each component is explosion-protected by means of flameproof housing made of non-metallic materials allowing for great heat dissipation and factory-made flame path that is inaccessible to the users, guaranteeing EX protection at all times. For a main breaker between 150 A and 250 A, a solution is also possible using factory-sealed CUBEx enclosure to protect the main beaker.

Advantages

BROZ offers several advantages over traditional explosionproof cast systems. It eliminates the need of conduit seals, eliminates the need to remove dozens of bolts, it is a lightweight panel reducing the need for expensive lift equipment. Due to being stainless steel material, the panel can be installed outdoors, closer to the field, minimizing cable length and cable size. All these features translate into fast installation and lower overall cost.

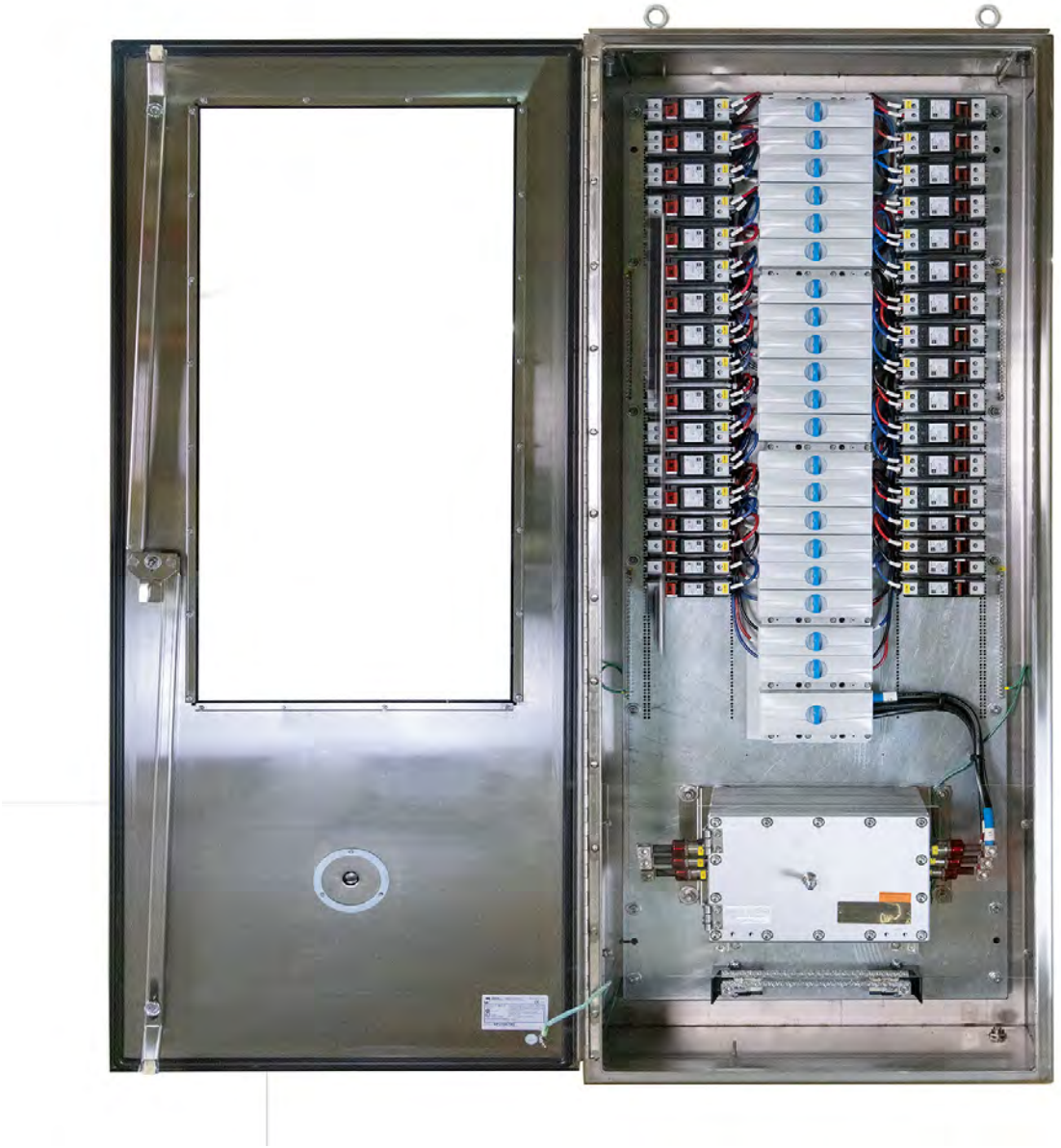
Safety Features

BROZ is designed with finger-safe construction to prevent accidental contact with live parts. The breaker is padlockable for added safety via accessory. The 304 SS enclosure can be open without losing the explosion protection; this is due to the protection coming from each component and not from the 304 SS housing. Should extreme corrosion be an issue, a 316L enclosure is available.



BRZ-33SS3B-361P15MCB-DPWHC with:

- Main lug only
- 36x 1-pole 15 A Breakers
- Built-in heater for -40 ˚C



BRZ-03SS4B-81P10MCB-262P20MCB-DPWiMB3250 with:

- 250 A, 3-pole, Main Breaker
- 26x 2-pole 20 A Breakers
- 8x 1-pole 10A Breakers

ZONE 2 PANELBOARDS

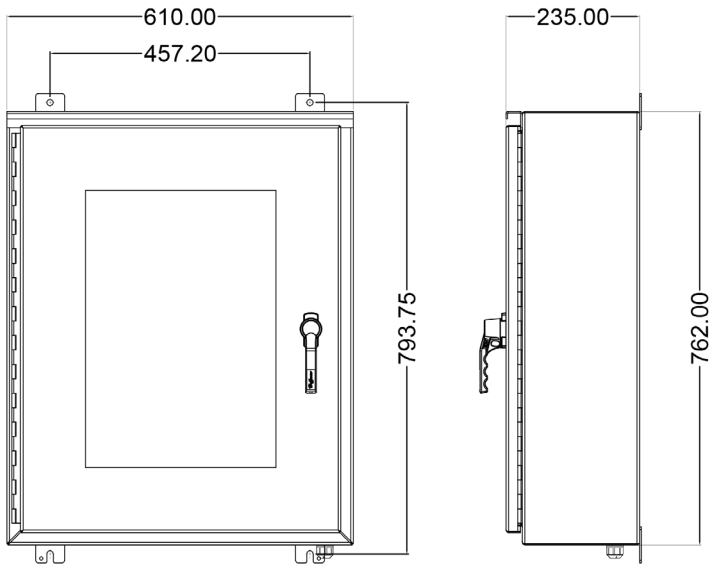
Example		BRZ	-	0	1	SS	3	B	-	12	2P	20	MCB	-	DWL	MB	3	125
Logic		BRZ	-	.	.	..	.	.	-	..	..	..	...	-	.	..	.	...
		a	-	b	c	d	e	f	-	g	h	i	j	-	k	l	m	n
a	**Type**	Class I, Division 2 / Zone 2 Circuit Breaker panelboards																
b	**Ampere**	1 = 100 A 2/0 main lugs (12 ccct) 2 = 225 A 250 mcm main lugs (24 ccct) 3 = 300 A 250 mcm main lugs (42 ccct and 60 ccct) 0 = Main Breaker																
c	**Wiring system**	1 = 208Y/120 V AC, 3 phase, 4 wire 2 = 120/240 V, 1 phase, 3 wire 3 = 480Y/277 V AC, 3 phase, 4 wire 4 = 480 V AC, 3 phase, 3 wire MOV 8 = 600Y/347 V AC, 3 phase, 4 wire																
d	**Enclosure material**	SS = Stainless Steel 304 (standard) SL = Stainless Steel 316																
e	**No. of circuits**	1 = 12 CCT 2 = 24 CCT 3 = 42 CCT 4 = 60 CCT																
f	**Entries**	B = Bottom T = Top																
g	**No. of breakers**	01 = 1 breaker 02 = 2 breaker(s) 03 = 3 breaker(s) .. = ... breaker(s) 60 = 60 breaker(s)																
h	**No. of poles**	1P – 1pole breaker(s) 2P – 2pole breaker(s) 3P – 3pole breaker(s)																
i	**Amperage**	.. = .. Amps of breaker (2 A ... 60 A - Refer to list for 8530 MCBs)																
j	**Breaker type**	MCB = Miniature Circuit Breakers EPD = 30 mA Breaker GFI GFCI = 5 mA GFCI Personal Protection Breakler GFEP = 30 mA Breaker Ground fault with overcurrent protection																
k	**Options (Suffix for options must be listed)**	D = NEMA 4X Drain (Standard) P = Breaker Padlock W = Window (Standard) H = Heater L = Internal Panel Light i = Cover interlock for Main breaker (used in case of Main breaker option) C = Wire rated -40°C																
l	**Main breaker / Main disconnect**	MB = Main Breaker BF = Back Fed Main MD = Main Disconnect																
m	**Phase Main Breaker**	1 = 1 Phase (Main Breaker) 2 = 2 Phase (Main Breaker) 3 = 3 Phase (Main Breaker)																
n	**Amperage Main Breaker / Switch**	0.. = Amperage of Disconnect Switch ... = Amps of Main Breaker (060, 100, 125, 150, 175, 200, 225)																

Not all configurations are possible. R. STAHL quotation engineer will review your request and provide the best solution.

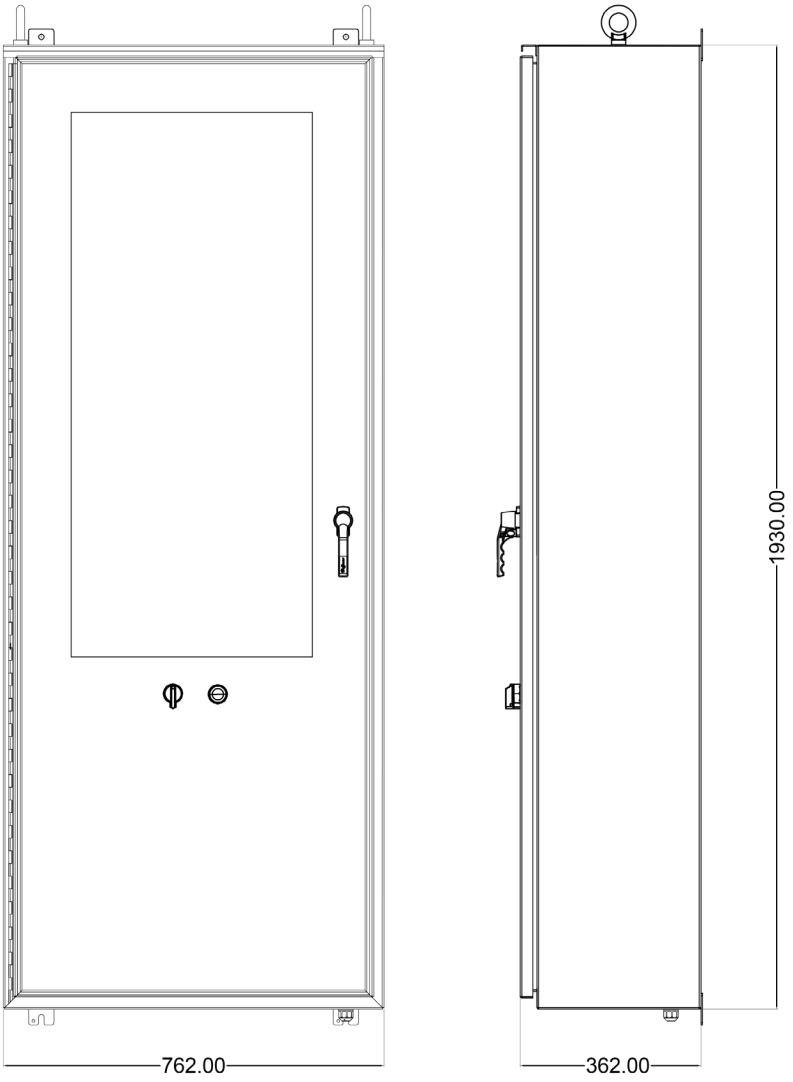
Dimensional Drawings in mm - Subject to Alterations

Main Lug Only

Circuits	Dimensions (mm)		
	W	H	D
24	610	762	235
42	762	1230	362
60	762	1524	362



Example size



Example size

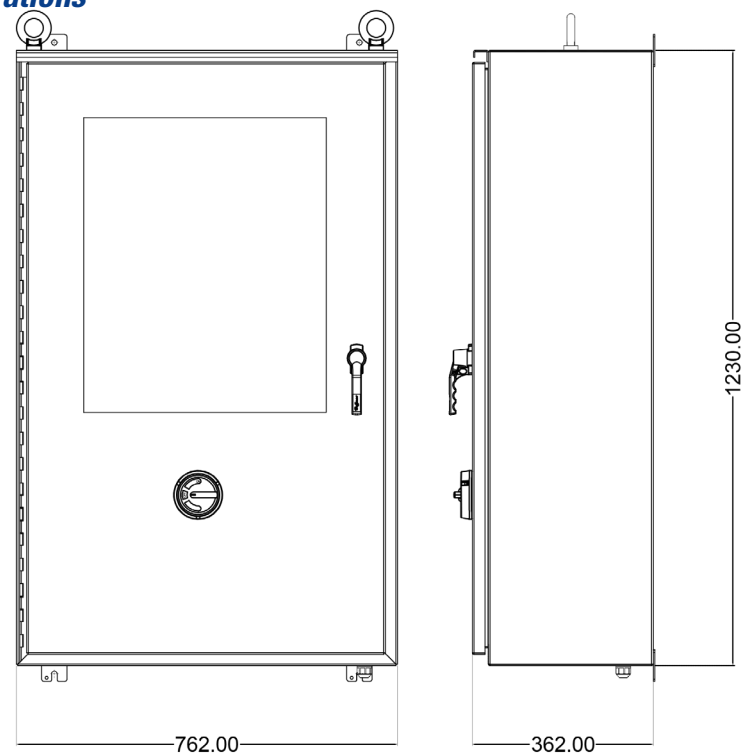
Main Lug + Heater

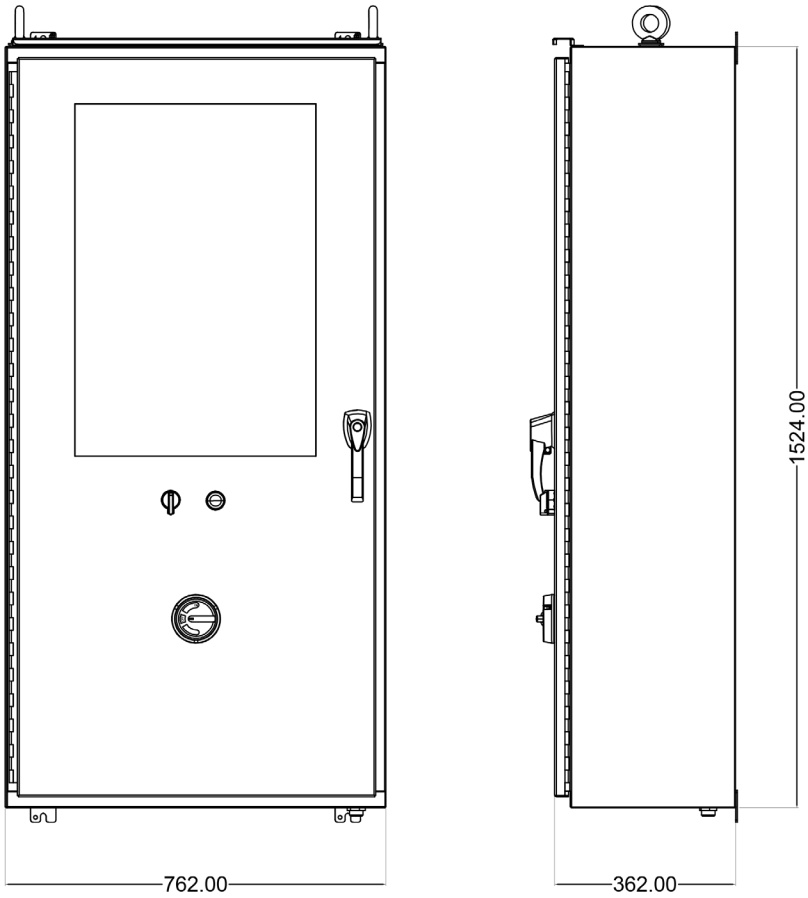
Circuits	Dimensions (mm)		
	W	H	D
24	762	1230	362
42	762	1524	362
60	762	1930	362

Dimensional Drawings in mm - Subject to Alterations

Main Breaker Panel Only

Circuits	Dimensions (mm)		
	W	H	D
24	762	1230	362
42	762	1524	362
60	762	1930	362





Main Breaker Panel + Heater

Circuits	Dimensions (mm)		
	W	H	D
24	762	1524	362
42	762	1930	362
60	762	2100	362

Example size

8530/1 Series Miniature Circuit Breakers

THERMAL-MAGNETIC Ex MCBs to ANSI UL 489 & CSA C22.2 No.5

CLASSIFICATIONS

NEC®
Class I, Division 2, Groups A,B,C,D
Zone 1, AEx db eb IIC Gb
FM19US0151U

Canadian Electrical Code
Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C,D
FM19CA0080U

ATEX
II 2 G Ex db eb IIC Gb
FM19ATEX0191U

IECEx
Ex db eb IIC Gb
IECEx FMG 19.0029U

Service Temperature
–40°C ... +70°C
–40°F ... +158°F
Based on final installation

Storage Temperature
$-40°C \le T_S \le +70°C$
$-40°F \le T_S \le +158°F$

FEATURES

- Branch circuit protection to UL489 and isolation function in accordance with EN 60947-2
- DIN rail mounted
- Simple replacement or expansion of your system thanks to a modular design
- Designed to ANSI UL 489 / CSA-C22.2 No. 5 & IEC 60947-2
- Auxiliary contacts available and must be specified at time of order

APPLICATIONS

- Power distribution panelboards
- Motor starter
- Lighting panelboards

Ordering Information

1-Pole Ex MCB, 8530/1 Series		
Rated operational current	**Catalog Number**	**SAP / Art. No.**
1 A	**8530/1-MCB-NAA101-C1-000-1**	316612
2 A	**8530/1-MCB-NAA101-C2-000-1**	316613
3 A	**8530/1-MCB-NAA101-C3-000-1**	316614
4 A	**8530/1-MCB-NAA101-C4-000-1**	316615
6 A	**8530/1-MCB-NAA101-C6-000-1**	316616
8 A	**8530/1-MCB-NAA101-C8-000-1**	317157
10 A	**8530/1-MCB-NAA101-C10-000-1**	316617
13 A	**8530/1-MCB-NAA101-C13-000-1**	316618
15 A	**8530/1-MCB-NAA101-C15-000-1**	317158
16 A	**8530/1-MCB-NAA101-C16-000-1**	316619
20 A	**8530/1-MCB-NAA101-C20-000-1**	316620
25 A	**8530/1-MCB-NAA101-C25-000-1**	316621
30 A	**8530/1-MCB-NAA101-C30-000-1**	317159
32 A	**8530/1-MCB-NAA101-C32-000-1**	316622
35 A	**8530/1-MCB-NAA101-C35-000-1**	317160
40 A	**8530/1-MCB-NAA101-C40-000-1**	317211
50 A	**8530/1-MCB-NAA101-C50-000-1**	338762
60 A	**8530/1-MCB-NAA101-C60-000-1**	324142

2-Pole Ex MCB, 8530/1 Series		
Rated operational current	**Catalog Number**	**SAP / Art. No.**
6 A	**8530/1-MCB-NAA102-C06-000-2**	320180
10 A	**8530/1-MCB-NAA102-C10-000-2**	305876
15 A	**8530/1-MCB-NAA102-C15-000-2**	305877
20 A	**8530/1-MCB-NAA102-C20-000-2**	305878
25 A	**8530/1-MCB-NAA102-C25-000-2**	305879
30 A	**8530/1-MCB-NAA102-C30-000-2**	305880
35 A	**8530/1-MCB-NAA102-C35-000-2**	305931
40 A	**8530/1-MCB-NAA102-C40-000-2**	305932
50 A	**8530/1-MCB-NAA102-C50-000-2**	338763
60 A	**8530/1-MCB-NAA102-C60-000-2**	315507

8530/1 Series Miniature Circuit Breakers

THERMAL-MAGNETIC Ex MCBs to ANSI UL 489 & CSA C22.2 No.5

Ordering Information

3-Pole Ex MCB, 8530/1 Series		
Rated operational current	**Catalog Number**	**SAP / Art. No.**
10 A	**8530/1-MCB-NAA103-C10-000-3**	305933
15 A	**8530/1-MCB-NAA103-C15-000-3**	305934
20 A	**8530/1-MCB-NAA103-C20-000-3**	305935
25 A	**8530/1-MCB-NAA103-C25-000-3**	305936
30 A	**8530/1-MCB-NAA103-C30-000-3**	305937
35 A	**8530/1-MCB-NAA103-C35-000-3**	305938
40 A	**8530/1-MCB-NAA103-C40-000-3**	305939
50 A	**8530/1-MCB-NAA103-C50-000-3**	305940
60 A	**8530/1-MCB-NAA103-C60-000-3**	305941

Technical Data

Description		
Rated voltage	**NEC® / CE Code:** AC: 480Y/277 V, 0.5 - 40 A AC: 240 V, 50 - 60 A DC: 48 V, 0.5 A - 60 A	**IECEx / ATEX:** AC: 230 V, 0.5 - 60 A DC: 48 V, 0.5 - 60 A
Frequency	50/60 Hz	
Rated interrupting capacity	10 kA	
Terminal size	14 AWG - 4 AWG	
Tightening torque lbf in	35.4 to 45.1 lbf-in	

Accessories

Figure	**Description**	**SAP / Art. No.**
	4-way locking device - a lock-out-tag-out clasp for individually locking the component using up to four cylinder locks	227232
	Cylinder lock for closing (bracket Ø 3)	107115
	Fastening set for fasteing the component on the mounting plate without a DIN rail	276618

CLASSIFICATIONS

NEC®
Class I, Division 2, Groups A,B,C,D
Zone 1, AEx db eb IIC Gb
FM19US0151U

Canadian Electrical Code
Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C,D
FM19CA0080U

ATEX
II 2 G Ex db eb IIC Gb
FM19ATEX0191U

IECEx
Ex db eb IIC Gb
IECEx FMG 19.0029U

Service Temperature
–40˚C ... +70˚C
–40˚F ... +158˚F
Based on final installation

Storage Temperature
$-40^{\circ}C \leq T_S \leq +70^{\circ}C$
$-40^{\circ}F \leq T_S \leq +158^{\circ}F$

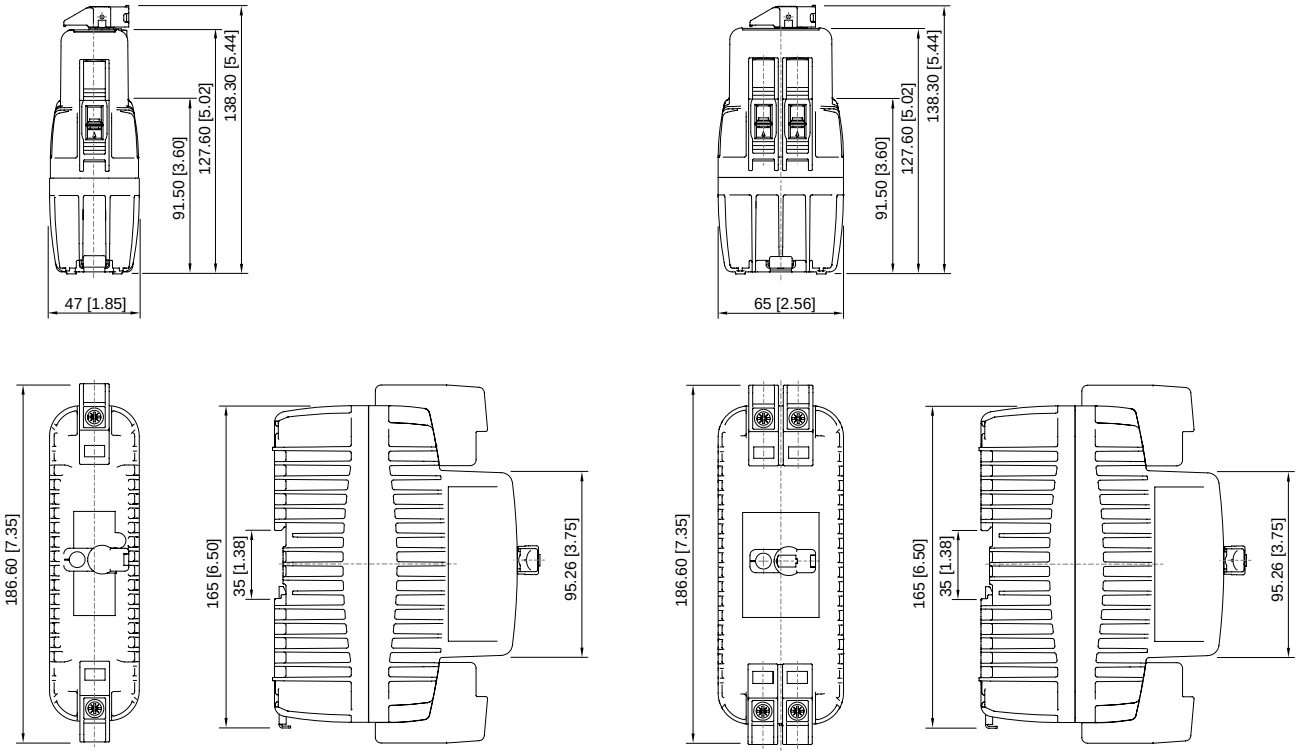
FEATURES

- Branch circuit protection to UL489 and isolation function in accordance with EN 60947-2
- DIN rail mounted
- Simple replacement or expansion of your system thanks to a modular design
- Designed to ANSI UL 489 / CSA-C22.2 No. 5 & IEC 60947-2
- Auxiliary contacts available and must be specified at time of order

APPLICATIONS

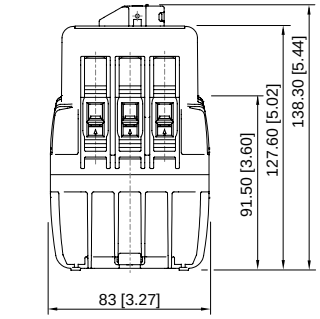
- Power distribution panelboards
- Motor starter
- Lighting panelboards

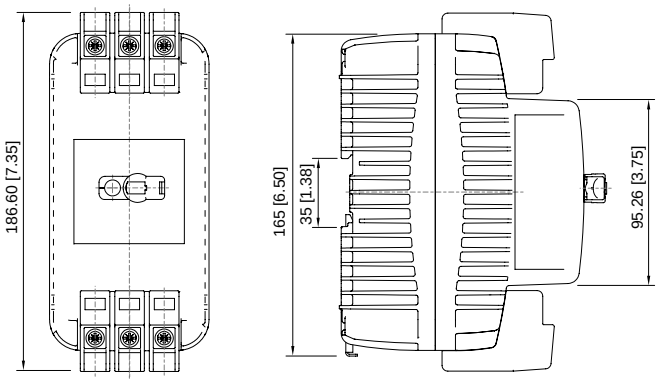
Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



8530/1 MCB 1-pole

8530/1 MCB 2-pole





8530/1 MCB 3-pole

8550 Series Molded-Case Circuit Breakers

THERMAL-MAGNETIC Ex MCCBs TO UL 489 & CSA C22.2 No. 5

Ordering Information

3-Pole Ex MCCB, 8550 Series				
Auxiliary function	**without**			
Rated operational current	**Terminal size**		**Catalog Number**	**SAP / Art. No.**
	AWG	**mm²**		
15 A	14 - 8	2.5 -10	8550/1-MCCB-GLS3-TM-015-10-000-000-0000	328062
20 A	14 - 8	2.5 -10	8550/1-MCCB-GLS3-TM-020-10-000-000-0000	313421
30 A	14 - 8	2.5 -10	8550/1-MCCB-GLS3-TM-030-10-000-000-0000	287847
50 A	8 - 4	10 - 25	8550/1-MCCB-GLS3-TM-050-25-000-000-0000	313390
60 A	8 - 4	10 - 25	8550/1-MCCB-GLS3-TM-060-25-000-000-0000	287848
70 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-070-95-000-000-0000	329949
80 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-080-95-000-000-0000	313388
90 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-090-95-000-000-0000	329947
100 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-100-95-000-000-0000	307516
110 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-110-95-000-000-0000	313389
125 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-125-95-000-000-0000	287846

CLASSIFICATIONS

NEC®
Class I, Division 2, Groups A,B,C,D
Zone 1, AEx db eb IIC Gb
FM22US0011U

Canadian Electrical Code
Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C,D
FM22CA0006U

ATEX
II 2 G Ex db eb IIC Gb
FM 16 ATEX 0005X

IECEx
Ex db eb IIC Gb
IECEx FMG 16.0005X

Ambient Temperature Range for the location of the equipment installation
–25°C ... +70°C
–13°F ... +158°F
Based on final installation

Storage Temperature
$-40°C \leq T_S \leq +80°C$
$-40°F \leq T_S \leq +176°F$

FEATURES

- Method of protection: Flameproof 3-pole molded-case circuit breaker with thermomagnetic protection
- Simple replacement or expansion of your system thanks to a modular design
- Ergonomically shaped operating lever guarantees that the system can be switched on and off safely
- Certified to UL 489 / CSA-C22.2 No. 5

APPLICATIONS

- Power distribution panelboards
- Battery DC power distribution systems
- Main breaker applications
- Motor starters
- Lighting panelboards

8550 Series Molded-Case Circuit Breakers

THERMAL-MAGNETIC Ex MCCBs TO UL 489 & CSA C22.2 No. 5

CLASSIFICATIONS

NEC®
Class I, Division 2, Groups A,B,C,D
Zone 1, AEx db eb IIC Gb
FM APPROVED FM22US0011U

Canadian Electrical Code
Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C,D
FM APPROVED FM22CA0006U

ATEX
II 2 G Ex db eb IIC Gb
FM 16 ATEX 0005X

IECEx
Ex db eb IIC Gb
IECEx FMG 16.0005X

Ambient Temperature Range for the location of the equipment installation
–25°C ... +70°C
–13°F ... +158°F
Based on final installation

FEATURES

- Method of protection: Flameproof 3-pole molded-case circuit breaker with thermomagnetic protection
- Simple replacement or expansion of your system thanks to a modular design
- Ergonomically shaped operating lever guarantees that the system can be switched on and off safely
- Certified to UL 489 / CSA-C22.2 No. 5

APPLICATIONS

- Power distribution panelboards
- Battery DC power distribution systems
- Main breaker applications
- Motor starters
- Lighting panelboards

Ordering Information

3-Pole Ex MCCB, 8550 Series				
1st auxiliary function			Auxiliary contact 1 change-over contact	
2nd auxiliary function			Fault signal contact 1 change-over contact	
3rd auxiliary function			without	
Rated operational current	Terminal size		Catalog Number	SAP / Art. No.
	AWG	mm²		
30 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-030-95-AS1-FS1-0000	313502
	8 - 4	10 - 25	8550/1-MCCB-GLS3-TM-030-25-AS1-FS1-0000	313501
	14 - 8	2.5 -10	8550/1-MCCB-GLS3-TM-030-10-AS1-FS1-0000	313490
40 A	8 - 4	10 - 25	8550/1-MCCB-GLS3-TM-040-25-AS1-FS1-0000	313015
60 A	8 - 4	10 - 25	8550/1-MCCB-GLS3-TM-060-25-AS1-FS1-0000	307515
63 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-063-95-AS1-FS1-0000	313654
	8 - 4	10 - 25	8550/1-MCCB-GLS3-TM-063-25-AS1-FS1-0000	313016
100 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-0000	307517
125 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-125-95-AS1-FS1-0000	30758

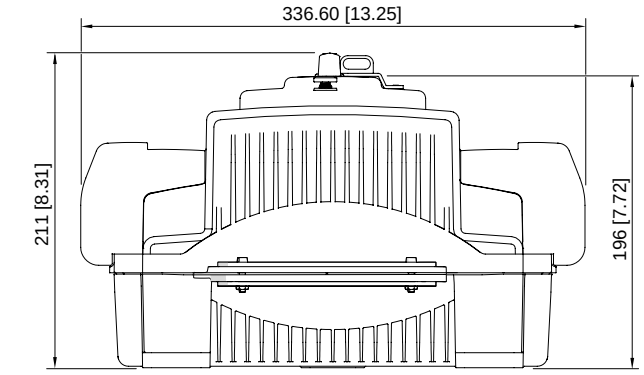
Ordering Information

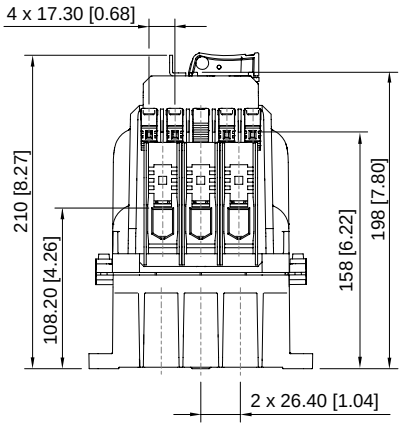
3-Pole Ex MCCB, 8550 Series				
1st auxiliary function			Auxiliary contact 1 change-over contact	
2nd auxiliary function			Fault signal contact 1 change-over contact	
3rd auxiliary function			Shunt release	
Rated operational current	Terminal size		Catalog Number	SAP / Art. No.
	AWG	mm²		
100 A	4 - 4/0	25 - 95	8550/1-MCCB-GLS3-TM-100-95-AS1-FS1-0S05S	307517

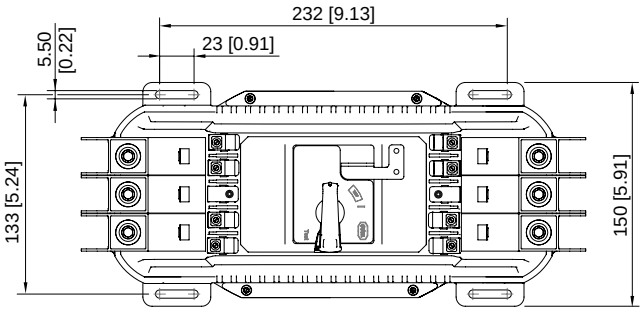
Technical Data

Description		
Rated voltage	**NEC® / CE Code:** AC: 12 ... 600Y/347 V DC: 12 ... 250 V	**IECEx / ATEX:** AC: 12 ... 690 V DC: 12 ... 250 V
Tripping time	0 - 10 ms	
Frequency range	50 - 60 Hz	
Rated interrupting capacity	10 kA	
Terminal size	14 AWG - 4 AWG	
Tightening torque lbf in	35.4 to 45.1 lbf-in	
Weight	4.3 kg [9.5 lb]	

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations







8550 Series Molded-Case Switch

MAGNETIC Ex MCS TO UL 489 & CSA C22.2 No. 5

CLASSIFICATIONS

NEC®
Class I, Division 2, Groups A,B,C,D
Zone 1, AEx db eb IIC Gb
FM22US0011U

Canadian Electrical Code
Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C,D
FM22CA0006U

ATEX
II 2 G Ex db eb IIC Gb
FM 16 ATEX 0005X

IECEx
Ex db eb IIC Gb
IECEx FMG 16.0005X

Ambient Temperature Range based on final installation

FEATURES

- Magnetic interrupting device to protect against short-circuit damage
- Isolation function in accordance with EN 60947-2
- Simple replacement or expansion of your system thanks to a modular design
- Padlocks provide lockout in both "ON" & "OFF" position
- Certified to UL 489 / CSA-C22.2 No. 5

APPLICATIONS

- Power distribution panelboards
- Switchboards
- Industrial control equipment
- Motor control centers
- Motor branch circuits

Ordering Information

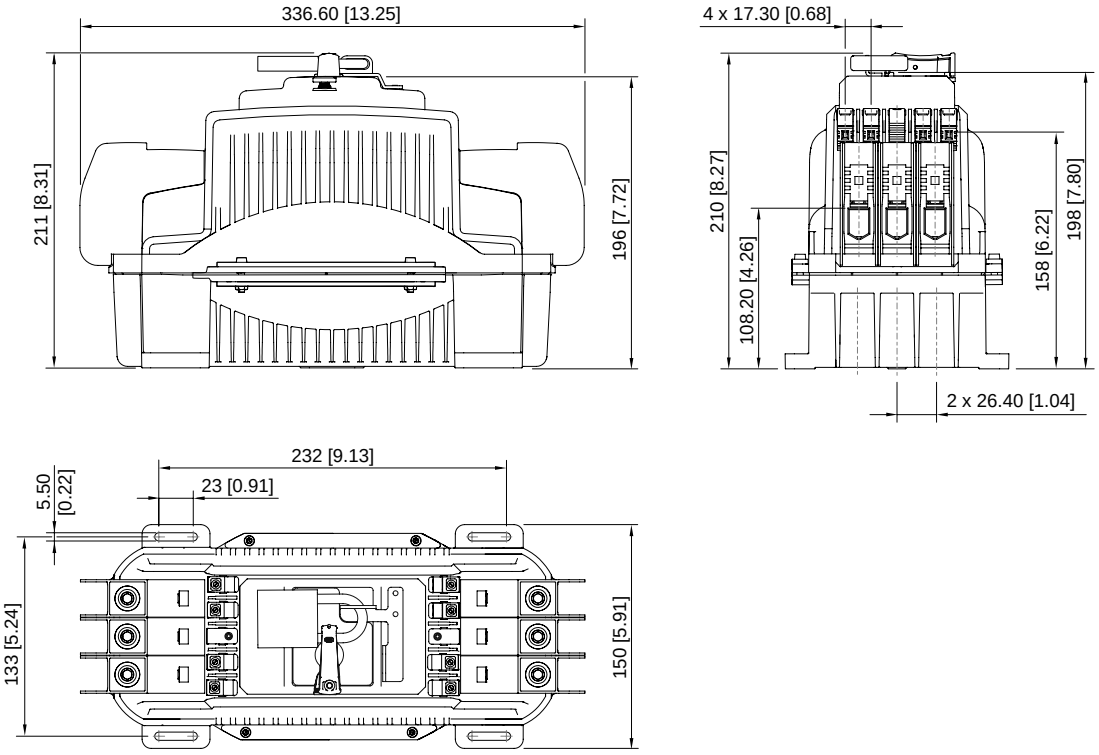
3-Pole Ex MCS, 8550 Series				
Auxiliary function		**without**		
Rated operational current	**Terminal size**		**Catalog Number**	**SAP / Art. No.**
	AWG	**mm²**		
100 A	4 - 4/0	25 -95	8550/1-MCS-GLS3-MO-100-95-000-000-0000	315523
	8 - 4	10 - 25	8550/1-MCS-GLS3-MO-100-25-000-000-0000	315991

Note: For applications requiring auxiliary contacts, contact factory.

Technical Data

Description		
Rated voltage	**NEC® / CE Code:** AC: 12 ... 480 V	**IECEx / ATEX:** AC: 12 ... 415 V
Tripping time	0 - 10 ms	
Frequency range	50 - 60 Hz	
Rated interrupting capacity	10 kA	
Terminal size	14 AWG - 4 AWG	
Tightening torque lbf in	35.4 to 45.1 lbf-in	
Degree of protection (IP)	IP20	

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



8562/5 Ground Fault Interrupter

EQUIPMENT PROTECTION EX GFI SERIES 8562/5

CLASSIFICATIONS

NEC®
Class I, Division 2, Groups A,B,C,D
Class I, Zone 1, AEx de IIC T5 or T6
FM APPROVED 3033692

Canadian Electrical Code
Ex db eb IIC Gb
Class I, Division 2, per CEC J18-150
FM APPROVED 3033692C

ATEX
II 2 G Ex db eb IIC Gb
PTB 02 ATEX 1049U

IECEx
Ex db eb IIC Gb
IECEx PTB 06.0062U

Ambient Temperature Range for the location of the equipment installation
–20˚C ... +60˚C
–4˚F ... +140˚F

FEATURES

The Ex GFI Series 8562/5 is an explosion-protected ground fault interrupter which assures ground fault protection for equipment and to a lesser extent personnel protection. The 8562/53 and 8562/54 can come with one auxiliary contact, actuated by the breaker handle or one alarm contact actuated in case of ground fault.

- Designed to ANSI UL 1053 / CSA-C22.2 No. 144 & IEC61008
- 480Y/277 V AC / Main Contact(s) 120 V AC Auxiliary / Alarm Contact, 2 Amps
- Short Circuit Switch Capacity - 10kA symRms circuit with properly sized limitation device
- Degree of Protection - IP20

Ordering Information

1-Pole + N or 2-Pole					
Switch Capacity	**Configuration**	**Leakage Current**	**Aux. or Alarm**	**Catalog Number**	**SAP / Art. No.**
16 A	2-pole / 1-p+N	10 mA	none	**8562/52-2500-160**	204151
25 A	2-pole / 1-p+N	30 mA	none	**8562/52-2510-250**	204152
35 A	2-pole / 1-p+N	30 mA	none	**8562/52-2510-350**	220351
				8562/52-2510-350-L	328759

Note product(s) containing "L" in the Catalog Number have a longer handle to be used in the EPiK panels.

1-Pole + N or 2-Pole with Auxiliary / Alarm Contact					
Switch Capacity	**Configuration**	**Leakage Current**	**Aux. or Alarm**	**Catalog Number**	**SAP / Art. No.**
25 A	2-pole / 1-p+N	30 mA	1xNOAux	**8562/53-2511-250**	209276
			1xNOAla	**8562/53-2512-250**	209278

3-Pole + N with Auxiliary / Alarm Contact					
Switch Capacity	**Configuration**	**Leakage Current**	**Aux. or Alarm**	**Catalog Number**	**SAP / Art. No.**
25 A	3-p+N	30 mA	none	**8562/54-4510-250**	204154
			1xCOAla	**8562/54-4515-250**	208865
35 A	3-p+N	30 mA	1x COAux	**8562/54-4514-400**	316394
			1xCOAla	**8562/54-4515-400**	208866
			1xCOAla	**8562/54-4525-350**	296443
			1x COAux	**8562/54-4534-400**	316396
			1xCOAla	**8562/54-4535-400**	316395

8565/1 Ground Fault Circuit Interrupter & Ground Fault Equipment Protector

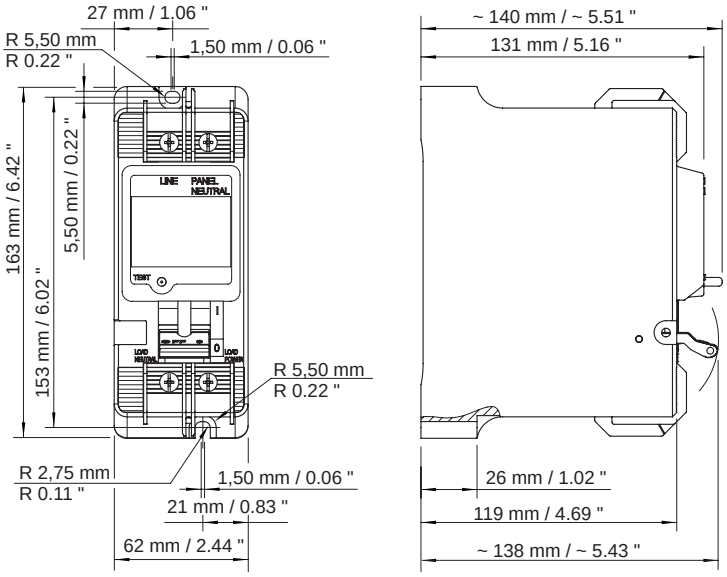
EX GFCI SERIES 8565/11-1050 AND EX GFEP SERIES 8565/11-1300

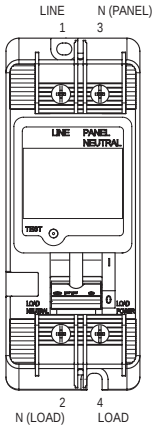
Ordering Information

1-Pole + N				
Device	**Ground Fault Leakage Rate**	**Amp Rating at Ta = 25 °C**	**Catalog Number**	**SAP / Art. No.**
Ex GFCI	5 mA	15	**8565/11-1050-015**	209159
		20	**8565/11-1050-020**	209160
		25	**8565/11-1050-025**	209171
		30	**8565/11-1050-030**	209172
Ex GFEP	30 mA	15	**8565/11-1300-015**	209173
			8565/11-1300-015-L	328760
		20	**8565/11-1300-020**	209174
			8565/11-1300-020-L	306364
		30	**8565/11-1300-030**	209175
			8565/11-1300-030-L	306365

Note product(s) containing "L" in the Catalog Number have a longer handle to be used in the EPiK panels.

Dimensional Drawings (All Dimensions in mm / inches) - Subject to Alterations





Note the location of Line and Load terminals when connecting the device. Terminals are marked on the device and are here to clarify proper connection. N (Panel) must be connected to supply neutral for proper function.

CLASSIFICATIONS

NEC®

Class I, Division 2, Groups A,B,C,D
Class I, Zone 1, AEx db IIC T6 Gb
FM APPROVED 3044318

Canadian Electrical Code

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C,D
FM APPROVED 3044318C

Ambient Temperature Range for the location of the equipment installation

–40˚C ... +40˚C
–40˚F ... +104˚F

FEATURES

The Ex GFCI Series, 8565/11-1050 is an explosion-protected device providing personnel protection from ground faults as well as overcurrent protection.

The Ex GFEP Series, 8565/11-1300 is an explosion-protected device providing equipment protection from ground fault as well as overcurrent protection.

- Designed to:
  Ex GFCI: ANSI/UL 943 & 489
  CSA C 22.2 No. 144-1 & No. 5
  Ex GFEP: ANSI/UL 1053 & 489
  CSA C 22.2 No. 144 & No. 5
- Voltage: 120 V AC
- Tripping characteristic: K
- Rated interrupting capacity - 10 kA
  When in circuit with properly sized current limitation device

8562/5 Series Miniature Circuit Breakers

THERMAL-MAGNETIC Ex MCBs to ANSI UL 489 & CSA C22.2 No.5

CLASSIFICATIONS

NEC®

Class I, Division 2, Groups A,B,C,D
Class I, Zone 1, AEx de IIC T5 or T6
FM APPROVED 3033692

Canadian Electrical Code

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C,D
FM APPROVED 3033692C

Ambient Temperature Range for the location of the equipment installation

–20˚C ... +40˚C
–4˚F ... +104˚F
Based on final installation

FEATURES

- Method of Protection: Flameproof 1, 2 and 3 pole with Thermal-Magnetic Branch Circuit Protection
- Designed to ANSI UL 489 / CSA-C22.2 No. 5
- Finger safe, IP20
- Breakers are not temperature compensated

APPLICATIONS

- Power distribution panelboards
- Motor starter
- Lighting panelboards

Ordering Information

1-Pole Ex MCB, 8562/51 Series		
Amp Rating at Ta = 25˚C	**Catalog Number**	**SAP / Art. No.**
2 A	**8562/51-1610-020 MCB**	288101
4 A	**8562/51-1610-040 MCB**	288102
10 A	**8562/51-1610-100 MCB**	212724
	8562/51-1610-100-L MCB	328756
15 A	**8562/51-1610-150 MCB**	251402
	8562/51-1610-150-L MCB	328757
20 A	**8562/51-1610-200 MCB**	212725
	8562/51-1610-200-L MCB	328751
25 A	**8562/51-1610-250-L MCB**	328752
30 A	**8562/51-1610-300 MCB**	149322
	8562/51-1610-300-L MCB	328753
32 A	**8562/51-1610-320 MCB**	200228
	8562/51-1610-320-L MCB	328754
40 A	**8562/51-1610-400 MCB**	200251
	8562/51-1610-400-L MCB	328758

2-Pole Ex MCB, 8562/52 Series		
Amp Rating at Ta = 25˚C	**Catalog Number**	**SAP / Art. No.**
10 A	**8562/52-2610-100 MCB**	251403
15 A	**8562/52-2610-150 MCB**	251404
	8562/52-2610-150-L MCB	328755
20 A	**8562/52-2610-200 MCB**	251405
	8562/52-2610-200-L MCB	306366
30 A	**8562/52-2610-300 MCB**	149633
	8562/52-2610-300-L MCB	306362
40 A	**8562/52-2610-400 MCB**	200256

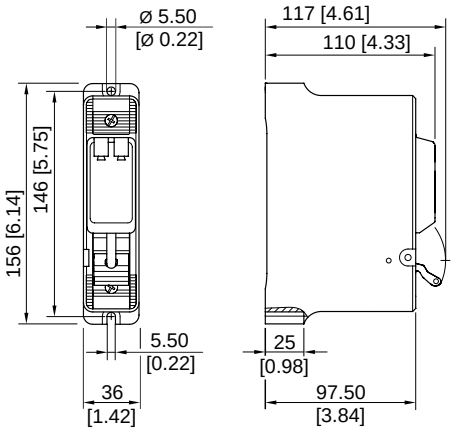
3-Pole Ex MCB, 8562/53 Series		
Amp Rating at Ta = 25˚C	**Catalog Number**	**SAP / Art. No.**
10 A	**8562/53-3610-100 MCB**	251406
20 A	**8562/53-3610-200 MCB**	251407
	8562/53-3610-200-L MCB	306367
30 A	**8562/53-3610-300 MCB**	149795
	8562/53-3610-300-L MCB	306363
32 A	**8562/53-3610-320 MCB**	200259
40 A	**8562/53-3610-400 MCB**	200261

Note product(s) containing "L" in the Catalog Number have a longer handle to be used in the EPiK panels.

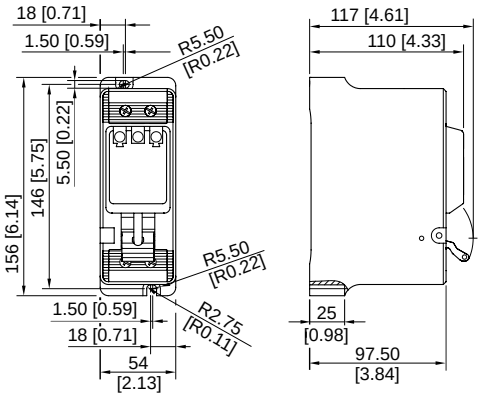
Technical Data

Description	
Rated voltage	8562/51: 277 V AC / 60 V DC 8562/52 & 8562/53: 480Y/277 V AC / 125 V DC (2-pole)
Degree of protection	IP20
Frequency	50/60 Hz
Rated interrupting capacity	10 kA
Terminal size	14 AWG - 6 AWG
Tightening torque lbf-in	35 to 45 lbf-in

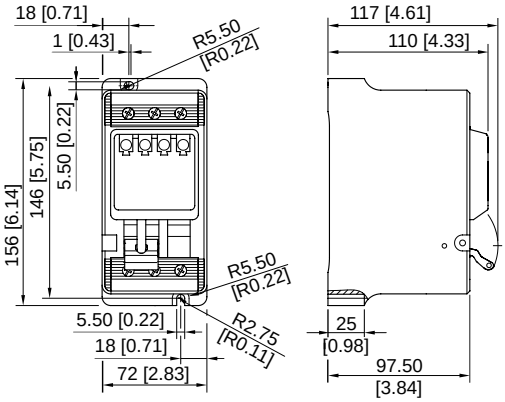
Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



8562/51-1610 MCB 1-pole



8562/52-2610 MCB 2-pole



8562/53-3610 MCB 3-pole

8568 Series Molded-Case Circuit Breakers

THERMAL-MAGNETIC Ex MCCBs to UL 489 & CSA C22.2 No.5

CLASSIFICATIONS

NEC®
Class I, Division 2, Groups A,B,C,D; T6 ... T4
Class I, Zone 1, AEx db eb IIC T6 ... T4 Gb
FM APPROVED FM19US0099U

Canadian Electrical Code
Class I, Zone 1, Ex db eb IIC T6 ... T4 Gb
Class I, Division 2, Groups A,B,C,D; T6 ... T4
FM APPROVED FM19CA0049U

ATEX
II 2G Ex db eb IIC T4 ... T6 Gb
FM16ATEX0005U

IECEx
Ex db eb IIC T4 ... T6 Gb
IECEx FMG 16.0005U

Ambient Temperature Range for the location of the equipment installation
–30˚C ... +40˚C*
–22˚F ... +104˚F*
***For installation up to +60 ˚C (+140 ˚F), consult the factory.**

FEATURES

- Method of protection: Flameproof 1- and 2-pole molded-case circuit breaker with thermomagnetic protection
- Terminal capacity:
  15 - 60 amp
  6 mm² - 50 mm² (10 AWG - 1/0 AWG)
  70 - 125 amp
  35 mm² - 95 mm² (2 AWG - 4/0 AWG)
- Designed to UL 489 / CSA-C22.2 No. 5 & IEC 60947-2
- Certified to UL 489 / CSA-C22.2 No. 5

APPLICATIONS

- Power distribution panelboards
- Battery DC power distribution systems
- Main breaker applications in 120 / 240 V panels

Ordering Information

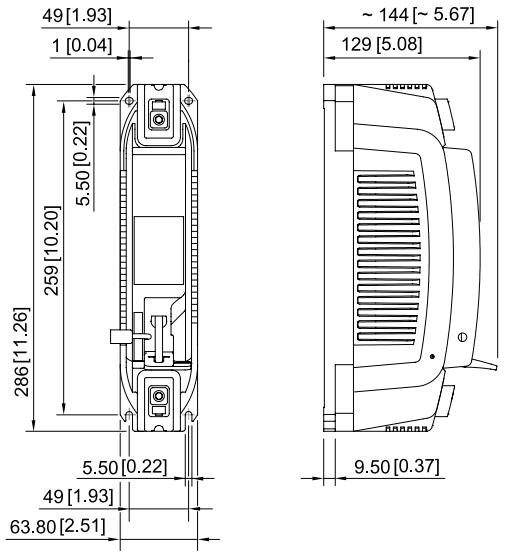
1-Pole Ex MCCB, 8568 Series		
Amp Rating at Ta = 25°C	**Catalog Number 347 V AC or 125 V DC, 10 kAIC**	**SAP / Art. No.**
15	**8568/MCCB-GS101B-15**	219818
20	**8568/MCCB-GS101B-20**	219820
25	**8568/MCCB-GS101B-25**	240682
30	**8568/MCCB-GS101B-30**	219821
35	**8568/MCCB-GS101B-35**	240683
40	**8568/MCCB-GS101B-40**	219823
45	**8568/MCCB-GS101B-45**	240684
50	**8568/MCCB-GS101B-50**	240685
60	**8568/MCCB-GS101B-60**	219824
70	**8568/MCCB-GS101B-70**	240686
80	**8568/MCCB-GS101B-80**	240687
90	**8568/MCCB-GS101B-90**	240688
100	**8568/MCCB-GS101B-100**	240689
110	**8568/MCCB-GS101B-110**	240690
125	**8568/MCCB-GS101B-125**	240691

2-Pole Ex MCCB, 8568 Series		
Amp Rating at Ta = 25°C	**Catalog Number 480 V AC or 125/250 V DC, 10 kAIC**	**SAP / Art. No.**
15	**8568/MCCB-GS102B-15**	240692
20	**8568/MCCB-GS102B-20**	219825
25	**8568/MCCB-GS102B-25**	240693
30	**8568/MCCB-GS102B-30**	219826
35	**8568/MCCB-GS102B-35**	240694
40	**8568/MCCB-GS102B-40**	219827
45	**8568/MCCB-GS102B-45**	240695
50	**8568/MCCB-GS102B-50**	240696
60	**8568/MCCB-GS102B-60**	219829
70	**8568/MCCB-GS102B-70**	240697
80	**8568/MCCB-GS102B-80**	240698
90	**8568/MCCB-GS102B-90**	240699
100	**8568/MCCB-GS102B-100**	219830
110	**8568/MCCB-GS102B-110**	240700
125	**8568/MCCB-GS102B-125**	240701

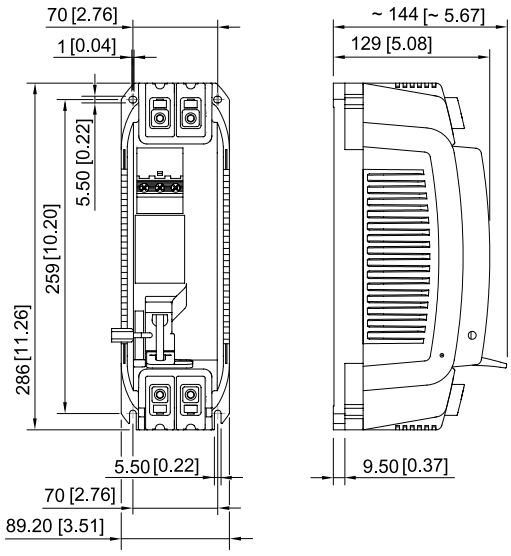
Technical Data

Versions	8568/MCCB-GS101B-...A	8568/MCCB-GS102B-...A
No. of poles	1-pole	2-pole
Rated voltage	**IECEx / ATEX:** AC: 240 V DC:125 V **NEC® / CE Code:** AC: 347 V DC: 125 V	**IECEx / ATEX:** AC: 240/415 V DC:125/250 V (2 poles in series) **NEC® / CE Code:** AC: 480 V DC: 125/250 V (2 poles in series)
Temperature class	-30 °C ≤ T_{amb} ≤ + 40 °C (-22 °F ≤ T_{amb} ≤ +104 °F) 15 to 60 A: T6 70 to 125 A: T5 -30 °C ≤ T_{amb} ≤ + 60 °C (-22 °F ≤ T_{amb} ≤ +140 °F)	

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations



8568/MCCB 1-pole



8568/MCCB 2-pole

NOTES