Engine Generator Circuit Breakers

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Molded Case Circuit Breakers

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Product Description

Eaton's engine generator molded case circuit breakers are designed specifically for application on diesel engine powered standby generators where high interrupting circuit breakers are not required. The JG through NG breakers are equipped with a special trip unit, that includes standard thermal (overload) protection and special low magnetic pickup range (FG includes a fixed thermal-magnetic pickup). The standard thermal trip unit provides overload protection for conductors per the National Electrical Code®. The low magnetic pickup range is approximately two to five times the continuous rating and provides closer low-level short-circuit protection when applied on generators that have very low short-circuit capacity. This combination allows the user to customize the breaker to the generator output.

Application Description

Engine generator circuit breakers are suitable for reverse feed application.

Standards and Certifications

Engine generator molded case circuit breakers are designed to conform with the following standards:

- Underwriters Laboratories Standard UL 489, Molded Case Circuit Breakers and Circuit Breaker Enclosures File E7819
- Canadian Standards Association Standard C22.2 No. 5, Service Entrance and Branch Circuit Breakers
- International Electrotechnical Commission Recommendations IEC 947-2, Circuit Breakers

Listed

Conformance with these standards satisfies most local and international codes, assuming user acceptability and simplified application.

Technical Data and Specifications

UL 489 Interrupting Capacity Ratings

Volts AC (50/60 Hz)	Interrupting Capacity (Symmetrical Amperes)
240	18,000
480	14,000
600	10,000

IEC 947-2 Interrupting Capacity Ratings

Volts AC (50/60 Hz)	Interrupting Capacity (Symmetrical Amperes) I_{cu}/I_{cs}
220, 240	18,000/9,000
380, 415	14,000/7,000
660, 690	18,000/9,000 14,000/7,000 10,000/5,000

Catalog Number Selection

This information is presented only as an aid to understanding catalog numbers. It is not to be used to build catalog numbers for circuit breakers.

- FG breakers include both line and load side terminals
- JG, KG, LG and NG breakers with **W** catalog number suffix do not include any terminals
- JG, KG, LG and NG breakers without **W** catalog number suffix include both line and load terminals
- Contact Eaton for additional ratings and internal/external accessories
- Accessories shown for F-Frame have a quick ship availability

Circuit Breakers FG, JG, KG, LG and NG

FG 3 100 W A06

Frame	Number of Poles	Trip Amperes	Suffix	Accessory ①
FG	**3** = Three-pole	**015**	**W** = Without terminals	**A06** = 1A–1B
		020	**Blank** = Terminals included	**A13** = 2A–2B
		025		**B06** = 1 Mk–1 Brk
		030		**C05** = 1A–1B/Mk Brk
		035		**S02** = 12–24 Vac
		040		**S06** = 48–127 Vac
		045		**S18** = 12–24 Vac
		050		**S22** = 48–127 Vac
		060		**N02** = 24 Vdc
		070		**U14** = 110–127 Vdc
		080		
		090		
		100		
		125		
		150		
		175		
		200		
		225		
JG		**175**		
		200		
		225		
		250		
KG		**300**		
		350		
		400		
LG		**450**		
		500		
		600		
NG		**700**		
		800		
		900		
		1000		
		1200		

① Accessories shown are for common F-Frame only; other configurations are available. See catalog for other frame sizes.

Engine Generator Circuit Breakers

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Product Selection

The following table lists FG through NG engine generator breakers with the maximum generator kVA and kW rating. Engine generator breakers are applied at 115% of the generator full load current rating (FLA). The maximum kW rating is based on three-phase generators at 80% power factor.

Breakers shown below include line and load terminals.

Thermal-Magnetic

	Maximum Generator Rating 60 Hz						Engine Generator Breaker ③
	240 Vac		480 Vac		600 Vac		
Magnetic Pickup Range	kVA ①	kW ②	kVA ①	kW ②	kVA ①	kW ②	Catalog Number
Fixed	5	4	11	9	14	11	**FG3015**
Fixed	7	6	14	12	18	14	**FG3020**
Fixed	9	7	18	14	23	18	**FG3025**
Fixed	11	9	22	17	27	22	**FG3030**
Fixed	13	10	25	20	32	25	**FG3035**
Fixed	14	12	29	23	36	29	**FG3040**
Fixed	16	13	32	26	41	32	**FG3045**
Fixed	18	14	36	29	45	36	**FG3050**
Fixed	22	17	43	35	54	43	**FG3060**
Fixed	25	20	51	40	63	51	**FG3070**
Fixed	29	23	58	46	72	58	**FG3080**
Fixed	32	26	65	52	81	65	**FG3090**
Fixed	36	29	72	58	90	72	**FG3100**
Fixed	40	32	79	64	99	79	**FG3110**
Fixed	45	36	90	72	113	90	**FG3125**
Fixed	54	43	108	87	135	108	**FG3150**
Fixed	63	51	126	101	158	126	**FG3175**
Fixed	72	58	144	116	181	144	**FG3200**
Fixed	81	65	162	130	203	162	**FG3225**
350–700	63	51	126	101	158	126	**JG3175**
350–700	72	58	144	116	181	144	**JG3200**
350–700	81	65	162	130	203	162	**JG3225**
350–700	90	72	181	144	226	181	**JG3250**
500–1000	108	87	217	173	271	217	**KG3300**
500–1000	126	101	253	202	316	253	**KG3350**
1000–2000	144	116	289	231	361	289	**KG3400**

Notes

① Breaker continuous current is based on 115% of the generator full load ampere rating.

② Based on three-phase generators at 80% power factor.

③ FG, JG, KG include thermal-magnetic trip units; LG and NG include electronic trip units.

The following catalog numbers have center tap studs for dual voltage applications: JG3070CT, JG3100CT, JG3125CT, KG3175CT, LG3300CTW.

Electronic

Magnetic Pickup Range	Maximum Generator Rating 60 Hz 240 Vac kVA ①	240 Vac kW ②	480 Vac kVA ①	480 Vac kW ②	600 Vac kVA ①	600 Vac kW ②	Engine Generator Breaker ③ Catalog Number
500–2500	162	130	325	260	406	325	**LG3450** ④
500–2500	181	144	361	289	451	361	**LG3500** ④
500–2500	217	173	433	347	542	433	**LG3600** ④
500–2500	253	202	505	404	632	505	**NG3700** ④
500–2500	289	231	578	462	722	578	**NG3800** ④
1250–5000	325	260	650	520	812	650	**NG3900** ④
1250–5000	361	289	722	578	903	722	**NG31000** ④
1250–5000	433	347	867	693	1083	867	**NG31200** ④

Notes

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③ FG, JG, KG include thermal-magnetic trip units; LG and NG include electronic trip units.

④ Breaker includes line and load terminals.

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Accessories Selection Guide and Ordering Information

Enclosures

Type 1 General Purpose

- Surface or flush mounting
- 15–1200 ampere range
- 600 Vac, 500 Vdc

Type 1 enclosed breakers are designed for use in commercial buildings, apartment buildings and other areas where a general purpose enclosure is applicable. The breaker is front operable and is capable of being padlocked in either the ON or OFF position. Ratings through 1200 amperes are listed with Underwriters Laboratories as approved for service entrance application. Both surface and flush mounted enclosures are available.

Type 12 Dustproof Surface Mounting

- No knockouts or other openings
- 15–1200 ampere range
- 600 Vac, 500 Vdc

The Type 12 enclosure is designed in line with specifications for special industry applications where unusually severe conditions involving oil, coolant, dust and other foreign materials exist in the operating atmosphere. The handle padlocks in the OFF position and the cover is interlocked with the handle mechanism to prevent opening the cover with the circuit breaker in the ON position. Ratings through 1200 amperes are listed by Underwriters Laboratories as suitable for service entrance application.

Type 3R Rainproof Surface Mounting

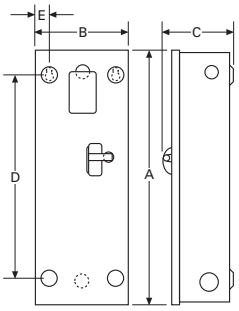
- Interchangeable hubs (through 400 amperes)
- 15–1200 ampere range
- 600 Vac, 500 Vdc

This general purpose outdoor service center employs a circuit breaker inside a weatherproof sheet steel breaker enclosure to serve as a main disconnect and protective device for feeder circuits. Ratings through 1200 amperes are listed by Underwriters Laboratories as suitable for service entrance application.

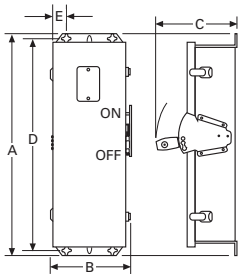
Enclosure Selection Data

Breaker Frame Amperes	Enclosure Type Class	A	B	C	D	E	Approx. Weight Lbs (kg)	Conduit Sizes, Inches	Catalog Number
FG 15–225	Type 1	23.25 (590.6)	8.41 (213.6)	6.28 (159.5)	18.75 (476.3)	1.20 (30.5)	15 (7)	0.25, 0.50, 0.75, 1, 1.25, 1.50, 2, 2.50	**SFDN225**
	Type 3R	25.66 (651.8)	8.84 (224.7)	9.31 (236.5)	24.28 (616.7)	1.70 (43.2)	19 (9)	0.25, 0.50, 0.75, 1, 1.25, 1.50, 2, 2.50	**RFDN225**
	Type 12	25.66 (651.8)	8.84 (224.7)	9.31 (236.5)	24.28 (616.7)	1.70 (43.2)	18 (8)	—	**JFDN225**
JG 175–250	Type 1	34.70 (881.4)	10.92 (277.4)	7.20 (182.9)	30.00 (762.0)	1.88 (47.8)	31 (14)	0.25, 0.50, 2, 2.50, 3	**SJDN250**
	Type 3R	37.50 (952.5)	11.56 (293.6)	10.22 (259.6)	35.77 (908.6)	1.94 (49.3)	40 (18)	0.25, 0.50, 2, 2.50, 3	**RJDN250**
	Type 12	37.53 (953.3)	11.56 (293.6)	10.22 (259.6)	35.77 (908.6)	1.94 (49.3)	37 (17)	—	**JJDN250**
KG 300–400	Type 1	38.81 (985.8)	11.06 (280.9)	10.94 (277.9)	34.00 (863.6)	2.28 (57.9)	53 (24)	0.25, 0.50, 0.75, 1.50, 2, 2.50, 3, 3.50	**SKDN400**
	Type 3R	41.69 (1058.9)	11.75 (298.5)	14.06 (357.1)	39.90 (1013.5)	1.97 (50.0)	60 (27)	0.25, 0.50, 0.75, 2.50, 3, 3.50	**RKDN400**
	Type 12	41.69 (1058.9)	11.75 (298.5)	14.06 (357.1)	39.90 (1013.5)	1.97 (50.0)	53 (24)	—	**JKDN400**
LG 450–600	Type 1	45.88 (1165.4)	14.31 (363.5)	12.38 (314.5)	46.56 (1182.6)	1.91 (48.5)	81 (37)	0.25, 0.50, 0.75, 3, 3.50, 4	**SLDN600**
	Type 3R	48.31 (1227.1)	14.91 (378.7)	15.50 (393.7)	46.56 (1182.6)	1.92 (48.8)	84 (38)	0.25, 0.50, 0.75, 3, 3.50, 4	**RLDN600**
	Type 12	48.31 (1227.1)	14.91 (378.7)	15.50 (393.7)	46.56 (1182.6)	1.92 (48.8)	81 (37)	—	**JLDN600**
NG 700–1200	Type 1	61.22 (1555.0)	21.44 (544.6)	15.41 (391.4)	61.84 (1570.7)	1.97 (50.0)	178 (81)	—	**SNDN1200**
	Type 3R	63.59 (1615.2)	22.00 (558.8)	17.63 (447.8)	61.84 (1570.7)	1.97 (50.0)	175 (79)	—	**RNDN1200**
	Type 12	63.59 (1615.2)	22.00 (558.8)	17.63 (447.8)	61.84 (1570.7)	1.97 (50.0)	170 (77)	—	**JNDN1200**

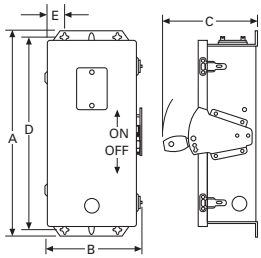
Type 1 Surface Mounted



Type 3R Rainproof



Type 12, 12K Dustproof



Enclosures, continued

Neutral Kits, Insulated and Groundable

Max. Enclosure Rating (Amperes)	Main Lug Number Size Cu/Al	Ground Lug Size Cu/Al	Catalog Number
100	(1) 14–1/0	(1) 14–1/0	**INK100**
250	(1) 6–350 kcmil	(1) 4–300 kcmil	**INK250**
400	(1) 4–750 kcmil or (2) 1/0–250 kcmil	(1) 4–300 kcmil	**INK400**
600	(2) 250–500 kcmil	(1) 4–300 kcmil	**INK600**
1200	(3) 1/0 to 750 kcmil or (4) 1/0 to 750 kcmil	(1) 6–250 kcmil	**INK1200**

Options and Accessories

Internal Accessories

Standard Terminals

Breaker Frame	Max. Amp Rating	AWG Wire Range	Metric Wire Range mm^2	Catalog Number
FG	100	14–1/0	2.5–50	**3T100FB** ①
FG	150	4–4/0	25–95	**3TA225FD** ①
JG	250	4–350 kcmil	25–185	**TA250KB**
KG	350	250–500 kcmil	120–240	**TA350K**
KG	400	3/0–250 kcmil (2)	95–120	**3TA400K** ①
LG	600	250–500 kcmil (2)	120–240	**3TA603LDK**
NG	700	1–500 kcmil (2)	50–300	**TA700NB1**
NG	1000	3/0–400 kcmil (3)	95–185	**TA1000NB1**
NG	1200	4/0–500 kcmil (4)	120–300	**TA1200NB1**

Optional Terminals

Breaker Frame	Max. Amp Rating	AWG Wire Range	Z Suffix (Line and Load Terminals)	Catalog Number
FD, FG	100	14–1/0	LZ04	**3T100FB**
	225	4–4/0	LZ05	**3TA225FD**
JD, JG	250	4–350 kcmil	N/A	**TA250KB**
KD, KG	225	(1) 3–350 kcmil	Z01	**TA300K**
	350	(1) 250–500 kcmil	Z02	**TA350K**
	400	(2) 3/0–250 kcmil	Z04	**3TA400K**
LD, LG	400	(1) 4/0–600 kcmil	Z12	**3TA401LDK**
	450	(2) 4–4/0	Z22	**TA450LD**
	500	(2) 3/0–350	Z01	**TA602LD**
	600	(2) 400–500 kcmil	Z04	**3TA603LDK**
ND, NG	700	(2) 1–500 kcmil	Z01	**TA700NB1**
	1000	(3) 3/0–400 kcmil	Z02	**TA1000NB1**
	1200	(4) 4/0–500 kcmil	Z04	**TA1200NB1**
	1200	(3) 500–750 kcmil	Z03	**TA1201NB1**

Auxiliary Switch ②

Breaker Frame	1A-1B Factory Mounted	1A-1B Field Kit Catalog Number	2A-2B Factory Mounted	2A-2B Field Kit Catalog Number
FG ③	A06	**A1X1PK**	A13	**A2X1RPK**
JG	A06	**A1X2PK**	A13	**A2X2PK**
KG	A06	**A1X3PK**	A13	**A2X3PK**
LG	A06	**A1X4PK**	A13	**A2X4PK**
NG	A06	**A1X5PK**	A13	**A2X5PK**

Shunt Trip ②

Breaker Frame	Rating	Factory Mounted	Field Kit Catalog Number
FG ③	12–24 Vdc	S02	**SNT1LP03K**
JG	12–24 Vdc	S42	**SNT2P04K**
KG	12–24 Vdc	S42	**SNT3P04K**
LG	12–24 Vdc	S02	**SNT4LP03K**
NG	12–24 Vdc	S02	**SNT5LP03K**

Notes

① Package of three terminals.

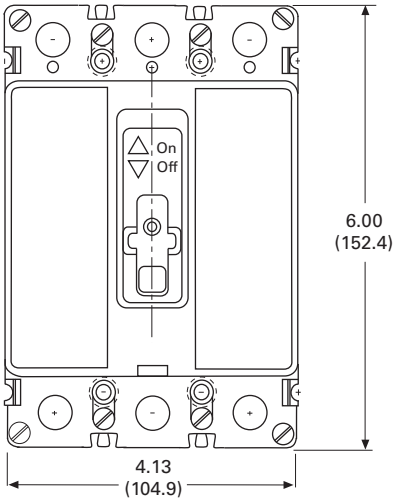
② Other accessories are available. Same as standard frame breakers.

③ Field installation on the FG Frame is not UL listed.

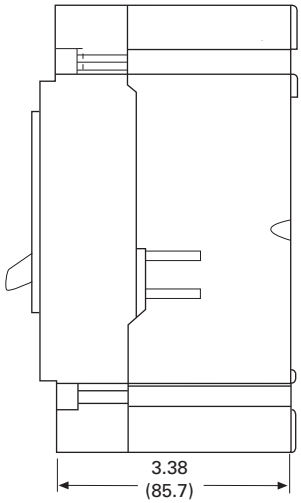
Breaker Dimensions

FG-Frame, Three-Pole

Front View

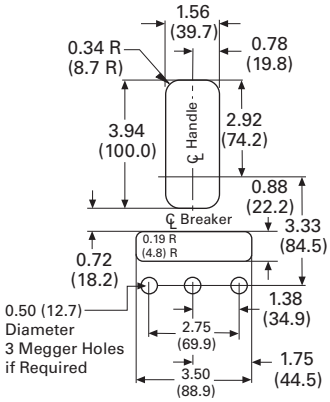


Side View

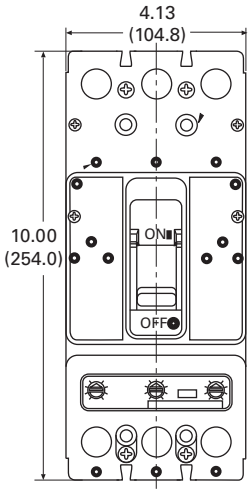


JG-Frame, Three-Pole

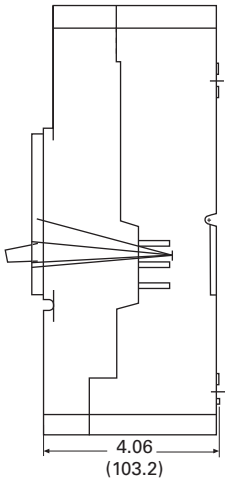
Front View Cutout



Front View



Side View

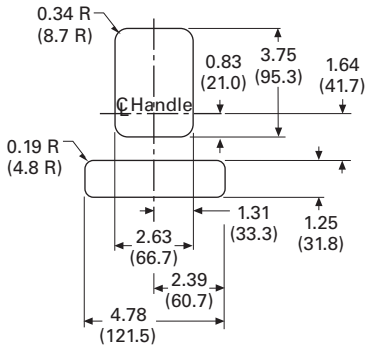


Engine Generator Circuit Breakers

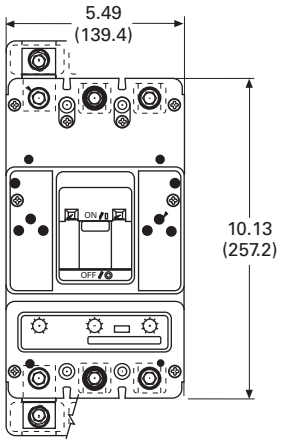
Molded Case Circuit Breakers

KG-Frame, Two- and Three-Pole

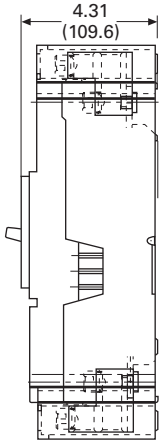
Front Cover Cutout



Front View

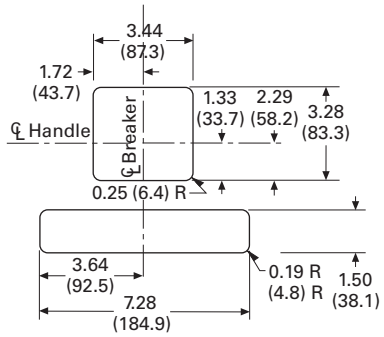


Side View

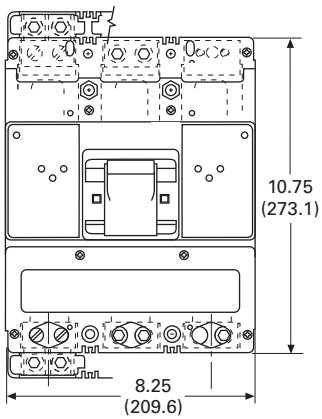


LG-Frame, Two- and Three-Pole

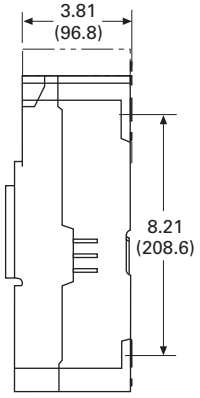
Front Cover Cutout



Front View

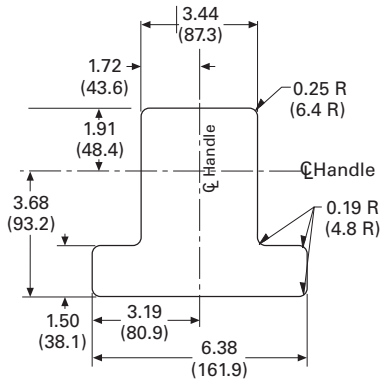


Side View

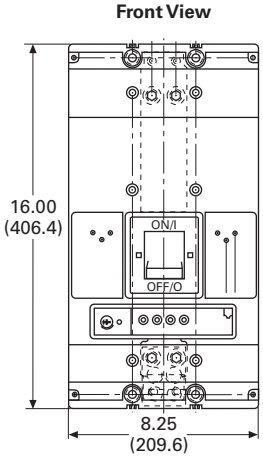


NG-Frame, Two- and Three-Pole

Front Cover Cutout



Front View



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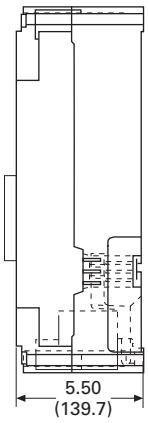

Eaton's Electrical Sector is a global leader in power distribution, power quality, control and automation, and monitoring products. When combined with Eaton's full-scale engineering services, these products provide customer-driven PowerChain™ solutions to serve the power system needs of the data center, industrial, institutional, public sector, utility, commercial, residential, IT, mission critical, alternative energy and OEM markets worldwide.

PowerChain solutions help enterprises achieve sustainable and competitive advantages through proactive management of the power system as a strategic, integrated asset throughout its life cycle, resulting in enhanced safety, greater reliability and energy efficiency. For more information, visit www.eaton.com/electrical.

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Powering Business Worldwide

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Volts AC (50/60 Hz)	Interrupting Capacity (Symmetrical Amperes) I_{cu}/I_{cs}
220, 240	18,000/9,000
380, 415	14,000/7,000
660, 690	18,000/9,000 14,000/7,000 10,000/5,000

Catalog Number Selection

This information is presented only as an aid to understanding catalog numbers. It is not to be used to build catalog numbers for circuit breakers.

- FG breakers include both line and load side terminals
- JG, KG, LG and NG breakers with **W** catalog number suffix do not include any terminals
- JG, KG, LG and NG breakers without **W** catalog number suffix include both line and load terminals
- Contact Eaton for additional ratings and internal/external accessories
- Accessories shown for F-Frame have a quick ship availability

Circuit Breakers FG, JG, KG, LG and NG

FG 3 100 W A06

Frame	Number of Poles	Trip Amperes	Suffix	Accessory ①
FG	**3** = Three-pole	**015**	**W** = Without terminals	**A06** = 1A–1B
		020	**Blank** = Terminals included	**A13** = 2A–2B
		025		**B06** = 1 Mk–1 Brk
		030		**C05** = 1A–1B/Mk Brk
		035		**S02** = 12–24 Vac
		040		**S06** = 48–127 Vac
		045		**S18** = 12–24 Vac
		050		**S22** = 48–127 Vac
		060		**N02** = 24 Vdc
		070		**U14** = 110–127 Vdc
		080		
		090		
		100		
		125		
		150		
		175		
		200		
		225		
JG		**175**		
		200		
		225		
		250		
KG		**300**		
		350		
		400		
LG		**450**		
		500		
		600		
NG		**700**		
		800		
		900		
		1000		
		1200		

① Accessories shown are for common F-Frame only; other configurations are available. See catalog for other frame sizes.

Engine Generator Circuit Breakers

Molded Case Circuit Breakers

Product Selection

The following table lists FG through NG engine generator breakers with the maximum generator kVA and kW rating. Engine generator breakers are applied at 115% of the generator full load current rating (FLA). The maximum kW rating is based on three-phase generators at 80% power factor.

Breakers shown below include line and load terminals.

Thermal-Magnetic

	Maximum Generator Rating 60 Hz						Engine Generator Breaker ③
	240 Vac		480 Vac		600 Vac		
Magnetic Pickup Range	kVA ①	kW ②	kVA ①	kW ②	kVA ①	kW ②	Catalog Number
Fixed	5	4	11	9	14	11	**FG3015**
Fixed	7	6	14	12	18	14	**FG3020**
Fixed	9	7	18	14	23	18	**FG3025**
Fixed	11	9	22	17	27	22	**FG3030**
Fixed	13	10	25	20	32	25	**FG3035**
Fixed	14	12	29	23	36	29	**FG3040**
Fixed	16	13	32	26	41	32	**FG3045**
Fixed	18	14	36	29	45	36	**FG3050**
Fixed	22	17	43	35	54	43	**FG3060**
Fixed	25	20	51	40	63	51	**FG3070**
Fixed	29	23	58	46	72	58	**FG3080**
Fixed	32	26	65	52	81	65	**FG3090**
Fixed	36	29	72	58	90	72	**FG3100**
Fixed	40	32	79	64	99	79	**FG3110**
Fixed	45	36	90	72	113	90	**FG3125**
Fixed	54	43	108	87	135	108	**FG3150**
Fixed	63	51	126	101	158	126	**FG3175**
Fixed	72	58	144	116	181	144	**FG3200**
Fixed	81	65	162	130	203	162	**FG3225**
350–700	63	51	126	101	158	126	**JG3175**
350–700	72	58	144	116	181	144	**JG3200**
350–700	81	65	162	130	203	162	**JG3225**
350–700	90	72	181	144	226	181	**JG3250**
500–1000	108	87	217	173	271	217	**KG3300**
500–1000	126	101	253	202	316	253	**KG3350**
1000–2000	144	116	289	231	361	289	**KG3400**

Notes

① Breaker continuous current is based on 115% of the generator full load ampere rating.

② Based on three-phase generators at 80% power factor.

③ FG, JG, KG include thermal-magnetic trip units; LG and NG include electronic trip units.

The following catalog numbers have center tap studs for dual voltage applications: JG3070CT, JG3100CT, JG3125CT, KG3175CT, LG3300CTW.

Electronic

Magnetic Pickup Range	Maximum Generator Rating 60 Hz 240 Vac kVA ①	240 Vac kW ②	480 Vac kVA ①	480 Vac kW ②	600 Vac kVA ①	600 Vac kW ②	Engine Generator Breaker ③ Catalog Number
500–2500	162	130	325	260	406	325	**LG3450** ④
500–2500	181	144	361	289	451	361	**LG3500** ④
500–2500	217	173	433	347	542	433	**LG3600** ④
500–2500	253	202	505	404	632	505	**NG3700** ④
500–2500	289	231	578	462	722	578	**NG3800** ④
1250–5000	325	260	650	520	812	650	**NG3900** ④
1250–5000	361	289	722	578	903	722	**NG31000** ④
1250–5000	433	347	867	693	1083	867	**NG31200** ④

Notes

① Breaker continuous current is based on 115% of the generator full load ampere rating.

② Based on three-phase generators at 80% power factor.

③ FG, JG, KG include thermal-magnetic trip units; LG and NG include electronic trip units.

④ Breaker includes line and load terminals.

The following catalog numbers have center tap studs for dual voltage applications: JG3070CT, JG3100CT, JG3125CT, KG3175CT, LG3300CTW.

Accessories Selection Guide and Ordering Information

Enclosures

Type 1 General Purpose

- Surface or flush mounting
- 15–1200 ampere range
- 600 Vac, 500 Vdc

Type 1 enclosed breakers are designed for use in commercial buildings, apartment buildings and other areas where a general purpose enclosure is applicable. The breaker is front operable and is capable of being padlocked in either the ON or OFF position. Ratings through 1200 amperes are listed with Underwriters Laboratories as approved for service entrance application. Both surface and flush mounted enclosures are available.

Type 12 Dustproof Surface Mounting

- No knockouts or other openings
- 15–1200 ampere range
- 600 Vac, 500 Vdc

The Type 12 enclosure is designed in line with specifications for special industry applications where unusually severe conditions involving oil, coolant, dust and other foreign materials exist in the operating atmosphere. The handle padlocks in the OFF position and the cover is interlocked with the handle mechanism to prevent opening the cover with the circuit breaker in the ON position. Ratings through 1200 amperes are listed by Underwriters Laboratories as suitable for service entrance application.

Type 3R Rainproof Surface Mounting

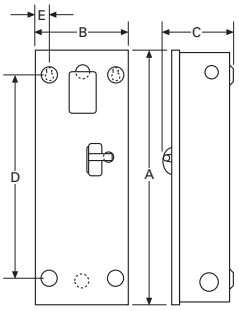
- Interchangeable hubs (through 400 amperes)
- 15–1200 ampere range
- 600 Vac, 500 Vdc

This general purpose outdoor service center employs a circuit breaker inside a weatherproof sheet steel breaker enclosure to serve as a main disconnect and protective device for feeder circuits. Ratings through 1200 amperes are listed by Underwriters Laboratories as suitable for service entrance application.

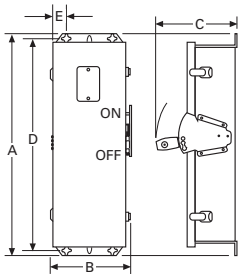
Enclosure Selection Data

Breaker Frame Amperes	Enclosure Type Class	A	B	C	D	E	Approx. Weight Lbs (kg)	Conduit Sizes, Inches	Catalog Number
FG 15–225	Type 1	23.25 (590.6)	8.41 (213.6)	6.28 (159.5)	18.75 (476.3)	1.20 (30.5)	15 (7)	0.25, 0.50, 0.75, 1, 1.25, 1.50, 2, 2.50	**SFDN225**
	Type 3R	25.66 (651.8)	8.84 (224.7)	9.31 (236.5)	24.28 (616.7)	1.70 (43.2)	19 (9)	0.25, 0.50, 0.75, 1, 1.25, 1.50, 2, 2.50	**RFDN225**
	Type 12	25.66 (651.8)	8.84 (224.7)	9.31 (236.5)	24.28 (616.7)	1.70 (43.2)	18 (8)	—	**JFDN225**
JG 175–250	Type 1	34.70 (881.4)	10.92 (277.4)	7.20 (182.9)	30.00 (762.0)	1.88 (47.8)	31 (14)	0.25, 0.50, 2, 2.50, 3	**SJDN250**
	Type 3R	37.50 (952.5)	11.56 (293.6)	10.22 (259.6)	35.77 (908.6)	1.94 (49.3)	40 (18)	0.25, 0.50, 2, 2.50, 3	**RJDN250**
	Type 12	37.53 (953.3)	11.56 (293.6)	10.22 (259.6)	35.77 (908.6)	1.94 (49.3)	37 (17)	—	**JJDN250**
KG 300–400	Type 1	38.81 (985.8)	11.06 (280.9)	10.94 (277.9)	34.00 (863.6)	2.28 (57.9)	53 (24)	0.25, 0.50, 0.75, 1.50, 2, 2.50, 3, 3.50	**SKDN400**
	Type 3R	41.69 (1058.9)	11.75 (298.5)	14.06 (357.1)	39.90 (1013.5)	1.97 (50.0)	60 (27)	0.25, 0.50, 0.75, 2.50, 3, 3.50	**RKDN400**
	Type 12	41.69 (1058.9)	11.75 (298.5)	14.06 (357.1)	39.90 (1013.5)	1.97 (50.0)	53 (24)	—	**JKDN400**
LG 450–600	Type 1	45.88 (1165.4)	14.31 (363.5)	12.38 (314.5)	46.56 (1182.6)	1.91 (48.5)	81 (37)	0.25, 0.50, 0.75, 3, 3.50, 4	**SLDN600**
	Type 3R	48.31 (1227.1)	14.91 (378.7)	15.50 (393.7)	46.56 (1182.6)	1.92 (48.8)	84 (38)	0.25, 0.50, 0.75, 3, 3.50, 4	**RLDN600**
	Type 12	48.31 (1227.1)	14.91 (378.7)	15.50 (393.7)	46.56 (1182.6)	1.92 (48.8)	81 (37)	—	**JLDN600**
NG 700–1200	Type 1	61.22 (1555.0)	21.44 (544.6)	15.41 (391.4)	61.84 (1570.7)	1.97 (50.0)	178 (81)	—	**SNDN1200**
	Type 3R	63.59 (1615.2)	22.00 (558.8)	17.63 (447.8)	61.84 (1570.7)	1.97 (50.0)	175 (79)	—	**RNDN1200**
	Type 12	63.59 (1615.2)	22.00 (558.8)	17.63 (447.8)	61.84 (1570.7)	1.97 (50.0)	170 (77)	—	**JNDN1200**

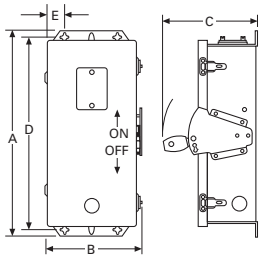
Type 1 Surface Mounted



Type 3R Rainproof



Type 12, 12K Dustproof



Enclosures, continued

Neutral Kits, Insulated and Groundable

Max. Enclosure Rating (Amperes)	Main Lug Number Size Cu/Al	Ground Lug Size Cu/Al	Catalog Number
100	(1) 14–1/0	(1) 14–1/0	**INK100**
250	(1) 6–350 kcmil	(1) 4–300 kcmil	**INK250**
400	(1) 4–750 kcmil or (2) 1/0–250 kcmil	(1) 4–300 kcmil	**INK400**
600	(2) 250–500 kcmil	(1) 4–300 kcmil	**INK600**
1200	(3) 1/0 to 750 kcmil or (4) 1/0 to 750 kcmil	(1) 6–250 kcmil	**INK1200**

Options and Accessories

Internal Accessories

Standard Terminals

Breaker Frame	Max. Amp Rating	AWG Wire Range	Metric Wire Range mm^2	Catalog Number
FG	100	14–1/0	2.5–50	**3T100FB** ①
FG	150	4–4/0	25–95	**3TA225FD** ①
JG	250	4–350 kcmil	25–185	**TA250KB**
KG	350	250–500 kcmil	120–240	**TA350K**
KG	400	3/0–250 kcmil (2)	95–120	**3TA400K** ①
LG	600	250–500 kcmil (2)	120–240	**3TA603LDK**
NG	700	1–500 kcmil (2)	50–300	**TA700NB1**
NG	1000	3/0–400 kcmil (3)	95–185	**TA1000NB1**
NG	1200	4/0–500 kcmil (4)	120–300	**TA1200NB1**

Optional Terminals

Breaker Frame	Max. Amp Rating	AWG Wire Range	Z Suffix (Line and Load Terminals)	Catalog Number
FD, FG	100	14–1/0	LZ04	**3T100FB**
	225	4–4/0	LZ05	**3TA225FD**
JD, JG	250	4–350 kcmil	N/A	**TA250KB**
KD, KG	225	(1) 3–350 kcmil	Z01	**TA300K**
	350	(1) 250–500 kcmil	Z02	**TA350K**
	400	(2) 3/0–250 kcmil	Z04	**3TA400K**
LD, LG	400	(1) 4/0–600 kcmil	Z12	**3TA401LDK**
	450	(2) 4–4/0	Z22	**TA450LD**
	500	(2) 3/0–350	Z01	**TA602LD**
	600	(2) 400–500 kcmil	Z04	**3TA603LDK**
ND, NG	700	(2) 1–500 kcmil	Z01	**TA700NB1**
	1000	(3) 3/0–400 kcmil	Z02	**TA1000NB1**
	1200	(4) 4/0–500 kcmil	Z04	**TA1200NB1**
	1200	(3) 500–750 kcmil	Z03	**TA1201NB1**

Auxiliary Switch ②

Breaker Frame	1A-1B Factory Mounted	1A-1B Field Kit Catalog Number	2A-2B Factory Mounted	2A-2B Field Kit Catalog Number
FG ③	A06	**A1X1PK**	A13	**A2X1RPK**
JG	A06	**A1X2PK**	A13	**A2X2PK**
KG	A06	**A1X3PK**	A13	**A2X3PK**
LG	A06	**A1X4PK**	A13	**A2X4PK**
NG	A06	**A1X5PK**	A13	**A2X5PK**

Shunt Trip ②

Breaker Frame	Rating	Factory Mounted	Field Kit Catalog Number
FG ③	12–24 Vdc	S02	**SNT1LP03K**
JG	12–24 Vdc	S42	**SNT2P04K**
KG	12–24 Vdc	S42	**SNT3P04K**
LG	12–24 Vdc	S02	**SNT4LP03K**
NG	12–24 Vdc	S02	**SNT5LP03K**

Notes

① Package of three terminals.

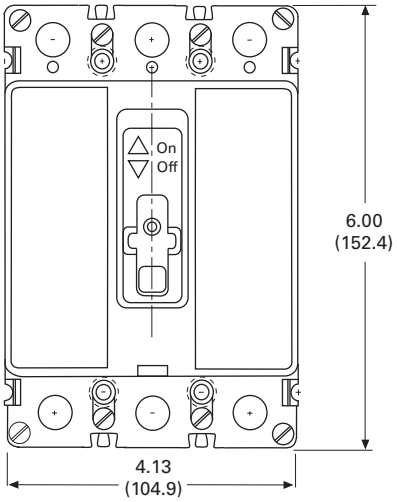
② Other accessories are available. Same as standard frame breakers.

③ Field installation on the FG Frame is not UL listed.

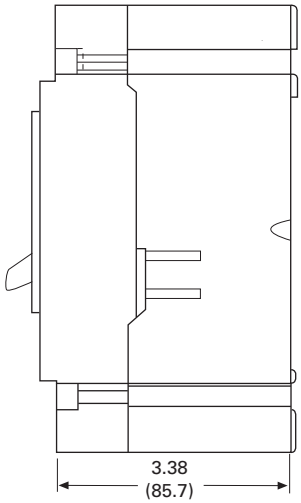
Breaker Dimensions

FG-Frame, Three-Pole

Front View

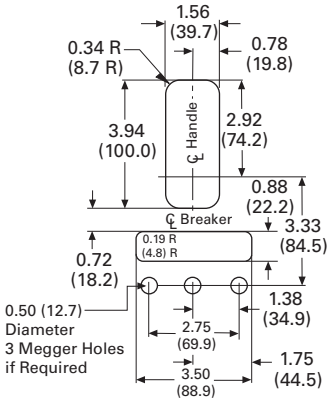


Side View

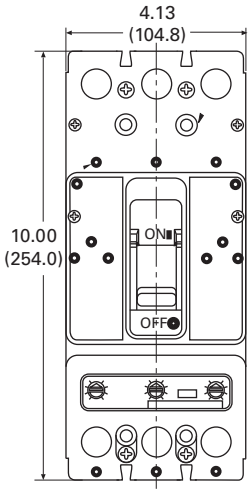


JG-Frame, Three-Pole

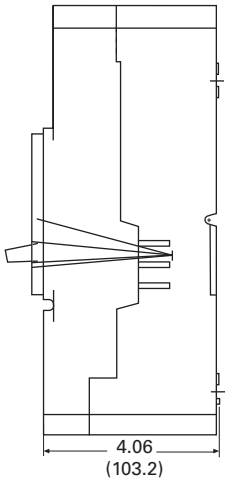
Front View Cutout



Front View



Side View

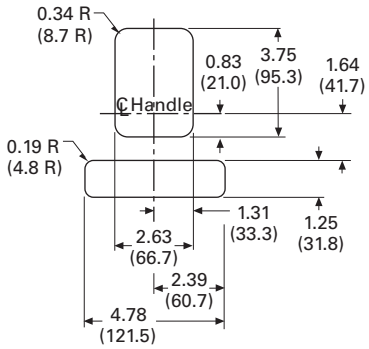


Engine Generator Circuit Breakers

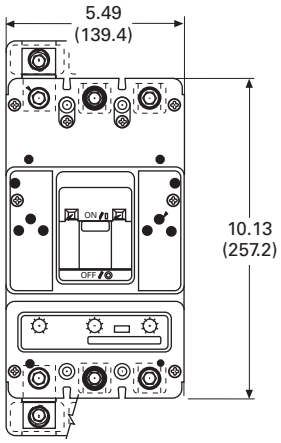
Molded Case Circuit Breakers

KG-Frame, Two- and Three-Pole

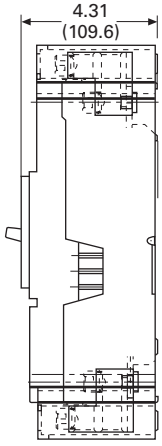
Front Cover Cutout



Front View

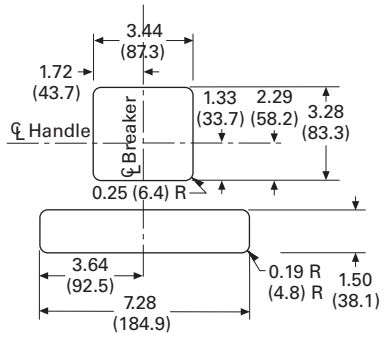


Side View

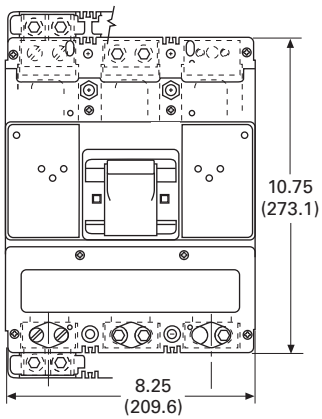


LG-Frame, Two- and Three-Pole

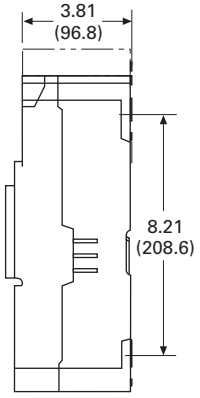
Front Cover Cutout



Front View

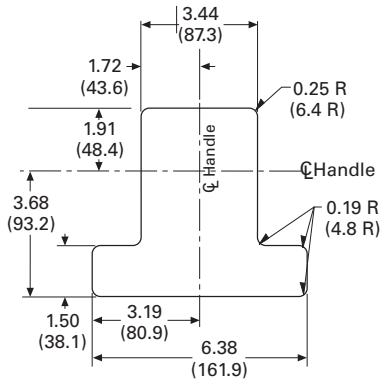


Side View

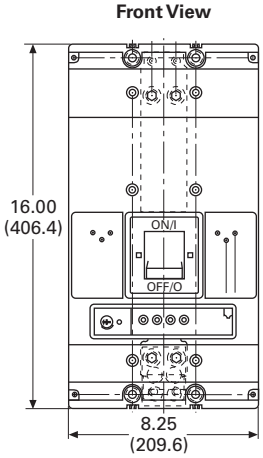


NG-Frame, Two- and Three-Pole

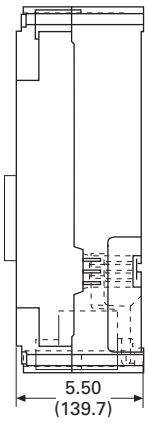
Front Cover Cutout



Front View



Side View



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