

# Product Details and Certifications

**Cross Reference RA Part Number: PN-D12457**

**Product: 140G-G6C3-C20**

Description: 140G - Molded Case Circuit Breaker, G frame, 65 kA, T/M - Thermal Magnetic, Rated Current 20 A



Representative Photo Only (actual product may vary based on configuration selections)

## SYSTEM DATA

Supply Voltage	480V 50/60Hz
Interrupt Rating[kA]	65 kA at 480V

## CIRCUIT BREAKER DATA

Bulletin Number	140G - Molded Case Circuit Breaker
Number of Poles	3 Poles
Frame Size	G frame
Rated Current(A)	20 A
Protection	T/M - Fixed Thermal / Fixed Magnetic TMF

## MANUFACTURING

Assembly	Factory Assembled
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## INTERNAL ACCESSORIES

Auxiliaries(AX), Alarm (AL), Auxiliary/Alarm Combination (AX/AL), Right Side Mounting	N/A
Voltage for Aux Alarm Combination	N/A



Frame Reference	G-Frame	H-Frame	I-Frame	J-Frame	K-Frame	M-Frame	N-Frame	NS-Frame	R-Frame
Rated Current $I_n$	125 A	125 A	225 A	250 A	400 A	800 A	1200 A	1200 A	3000 A
No. of Poles	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4
<b>Interrupting Rating [kA]</b>									
240V	50 65 100	65 100 150 200 200	50 65	65 100 150 200	100 150 200 200	100 200 200	65 100 150	65 100 150	125
480V	25 35 65	25 35 65 100 150	25 35	25 35 65 100	35 65 100 150	50 65 100	50 65 100	50 65 100	125
600Y/347V	10 14 25	—	10 10	—	—	—	—	—	—
600V	—	14 18 25 35	10 10	14 18 25 35	25 35 65 100	25 35 42	25 50 65	25 50 65	100
<b>Breaking Capacity [<math>I_{cu}</math> (kA)]</b>									
220...240V	65 85 100	65 85 100 150 200	65 85	65 85 100 150	85 100 200 200	85 100 200	85 100 200	85 100 200	130
415V	36 50 70	36 50 70 120 150	36 50	36 50 70 120	50 70 120 200	36 70 100	50 70 120	50 70 120	80
440V	36 50 65	36 50 65 100 150	25 40	36 50 65 100	40 65 100 180	35 50 65	50 65 100	50 65 100	80
690V	6 8 10	10 12 15 18 20	5 8	10 12 15 20	25 40 70 80	22 25 30	30 42 50	30 42 50	40
250V DC	36 50 70	36 50 70 85 100	36 50	36 50 70 85	—	36 50 65	—	—	—
500V DC	36 50 70	36 50 70 85 100	36 50	36 50 70 85	36 50 70 100	—	—	—	—
750V DC	—	—	—	—	25 36 70 70	16 36 50	—	—	—
<b>Protection Type</b>									
Thermal Magnetic	✓	✓	✓	✓	✓	✓	—	—	—
Electronic	—	✓	—	✓	✓	✓	✓	✓	✓
Molded Case Switch	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Internal Accessories</b>									
Auxiliary Contact	✓	✓	✓	✓	✓	✓	✓	✓	✓
Alarm Contact	✓	✓	✓	✓	✓	✓	✓	✓	✓
AX/AL Combo	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trip Unit Contact	—	✓	—	✓	—	—	✓	✓	✓
Shunt Trip	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shunt Close	—	—	—	—	—	—	✓	✓	✓
UV Relay	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Installable	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>External Accessories</b>									
End Cap	STD	STD	STD	STD	STD	STD	STD	STD	—
25 mm Phase Barriers	STD	STD	STD	STD	STD	—	—	—	—
Insulators	STD	STD	STD	STD	STD	STD	—	—	—
Terminal Lugs	✓	✓	✓	✓	✓	✓	✓	✓	✓
Extended Terminal	✓	✓	✓	✓	✓	✓	✓	✓	—
Spreader Terminal	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rear Terminal	—	—	—	—	—	—	✓	✓	✓
Phase barriers	✓	✓	✓	✓	✓	✓	✓	✓	✓
Terminal Cover	✓	✓	✓	✓	✓	✓	✓	✓	—
Direct Rotary	✓	✓	✓	✓	✓	✓	✓	—	—
Variable Depth (Door)	✓	✓	✓	✓	✓	✓	✓	—	—
Internal NFPA 79	✓	✓	✓	✓	✓	✓	✓	—	—
Flange Operator	✓	✓	✓	✓	✓	✓	✓	—	—
Flange Cable	✓	✓	✓	✓	✓	✓	✓	—	—
Motor Operator	✓	✓	✓	✓	✓	✓	—	✓	✓
Field Installable	✓	✓	✓	✓	✓	✓	✓	✓	✓

# Molded Case Circuit Breakers

## Catalog Number Explanation — 125 A, G-Frame

### Complete Circuit Breaker Assemblies with Factory-Installed Options

Examples given in this section are not intended to be used for product selection. Use ProposalWorks to configure the molded case circuit breaker. Use these configurations only to select all factory-installed options for shunt trips, undervoltage release units, auxiliary contacts, and alarm contacts. Use the codes from Table g to add on to the molded case circuit breaker cat. no. selected on the previous pages to form a complete cat. no. for a complete assembly with factory-installed options.



140G - G
6
C
3 - C20
        

*a*
*b*
*c*
*d*
*e*
*f*
*g*

Cat. No. 140G-G6C3-D12

<i>a</i>		<i>d</i>		<i>g</i>	
Bulletin No.		Protection Type		Factory-Installed Internal Options ♦	
Code	Description	Code	Description	Code	Description
140G	Global Molded Case Circuit Breaker	C	Fixed thermal/fixed magnetic	Shunt Trip and Undervoltage Release Units	
		E	Adjust thermal/fixed magnetic	SJ	Shunt Trip, 24...30V AC/DC
		S	Molded case switch (Isolator)	SK	Shunt Trip, 48...60V AC/DC
<i>b</i>		<i>e</i>		SD	Shunt Trip, 110...127V AC; 110...125V DC
Frame/Rating		Poles		SA	Shunt Trip, 220...240V AC; 220...250V DC
Code	Description	Code	Description	SB	Shunt Trip, 380...440V AC
G	125 A, Fixed	3	3 poles	SC	Shunt Trip, 480...525V DC
		4	4 poles	UJ	Undervoltage Release, 24...30V AC/DC
<i>c</i>		<i>f</i>		UR	Undervoltage Release, 48V AC/DC
Interrupting Rating/Breaking Capacity (based on $I_c$ at 480V)		Current Range		UD	Undervoltage Release, 110...127V AC; 110...125V DC
Code	Description	Code	Description	UA	Undervoltage Release, 220...240V AC; 220...250V DC
2	25 kA	C	e.g., C30 = 30 A	UB	Undervoltage Release, 380...440V AC
3	35 kA	D	e.g., D16 = 160 A	UC	Undervoltage Release, 480...525V AC
6	65 kA			No Digit	No Selection
				Auxiliary and Alarm Contacts	
				Code	Description
				KA	1 Aux. Contact, 250V
				TA	1 Alarm Contact, 250V
				AA	1 Aux., 1 Alarm Contact, 250V
				BA	2 Aux., 1 Alarm Contact, 250V
				AJ	1 Aux., 1 Alarm Contact, 24V

♦ Select up to two internal options: 1 for left side mounting (shunt trip or undervoltage release), 1 for right (auxiliary or alarm contact). Consult your local Rockwell automation sales office or Allen-Bradley distributor for further assistance.

Assembled Molded Case Circuit Breakers — 125 A, G-Frame



Interrupting Rating/Breaking Capacity — Thermal-Magnetic Circuit Breakers

Interrupting Rating (50/60 Hz), UL 489/CSA C22.2-5, No. 5-02 [kA]			Breaking Capacity (50/60 Hz), IEC 60947-2 $I_{cu}$ [kA]/ $I_{cs}$ %								Breaking Capacity (DC), IEC 60947-2				Interrupting Code‡
240V	480V	600Y/ 347V	220V★		415V		440V★		690V		250V DC (2- pole in series)		500V DC (3- pole in series)		
			$I_{cu}$ [kA]	$I_{cs}$ [% $I_{cu}$ ]	$I_{cu}$ [kA]	$I_{cs}$ [% $I_{cu}$ ]	$I_{cu}$ [kA]	$I_{cs}$ [% $I_{cu}$ ]	$I_{cu}$ [kA]	$I_{cs}$ [% $I_{cu}$ ]	$I_{cu}$ [kA]	$I_{cs}$ [% $I_{cu}$ ]	$I_{cu}$ [kA]	$I_{cs}$ [% $I_{cu}$ ]	
50	25	10	65	75	36	100	36	50	6	75	36	100	36	100	G2
65	35	14	85	75	50	75	50	50	8	50	50	100	50	100	G3
100	65	25	100	75	70	50	65	50	10	50	70	75	70	75	<b>G6</b>



★ These ratings have not been tested for the CCC listing.

‡ See table below for Cat. No. selection

Thermal-Magnetic, Fixed Thermal-Fixed Magnetic

Rated Current $I_n$ [A]	Thermal Trip [A] $I_r = I_n$ (Fixed)	Magnetic Trip [A] $I_m$	Interrupting Code G2		Interrupting Code G3		Interrupting Code G6	
			Cat. No.		Cat. No.		Cat. No.	
			3 Poles	4 Poles	3 Poles	4 Poles	3 Poles	4 Poles
15	15	500	140G-G2C3-C15	140G-G2C4-C15	140G-G3C3-C15	140G-G3C4-C15	140G-G6C3-C15	140G-G6C4-C15
16	16	500	140G-G2C3-C16	140G-G2C4-C16	140G-G3C3-C16	140G-G3C4-C16	140G-G6C3-C16	140G-G6C4-C16
<b>20</b>	<b>20</b>	<b>500</b>	140G-G2C3-C20	140G-G2C4-C20	140G-G3C3-C20	140G-G3C4-C20	<b>140G-G6C3-C20</b>	140G-G6C4-C20
25	25	500	140G-G2C3-C25	140G-G2C4-C25	140G-G3C3-C25	140G-G3C4-C25	140G-G6C3-C25	140G-G6C4-C25
30	30	500	140G-G2C3-C30	140G-G2C4-C30	140G-G3C3-C30	140G-G3C4-C30	140G-G6C3-C30	140G-G6C4-C30
32	32	500	140G-G2C3-C32	140G-G2C4-C32	140G-G3C3-C32	140G-G3C4-C32	140G-G6C3-C32	140G-G6C4-C32
35	35	500	140G-G2C3-C35	140G-G2C4-C35	140G-G3C3-C35	140G-G3C4-C35	140G-G6C3-C35	140G-G6C4-C35
40	40	500	140G-G2C3-C40	140G-G2C4-C40	140G-G3C3-C40	140G-G3C4-C40	140G-G6C3-C40	140G-G6C4-C40
45	45	500	140G-G2C3-C45	140G-G2C4-C45	140G-G3C3-C45	140G-G3C4-C45	140G-G6C3-C45	140G-G6C4-C45
50	50	500	140G-G2C3-C50	140G-G2C4-C50	140G-G3C3-C50	140G-G3C4-C50	140G-G6C3-C50	140G-G6C4-C50
60	60	600	140G-G2C3-C60	140G-G2C4-C60	140G-G3C3-C60	140G-G3C4-C60	140G-G6C3-C60	140G-G6C4-C60
63	63	630	140G-G2C3-C63	140G-G2C4-C63	140G-G3C3-C63	140G-G3C4-C63	140G-G6C3-C63	140G-G6C4-C63
70	70	700	140G-G2C3-C70	140G-G2C4-C70	140G-G3C3-C70	140G-G3C4-C70	140G-G6C3-C70	140G-G6C4-C70
80	80	800	140G-G2C3-C80	140G-G2C4-C80	140G-G3C3-C80	140G-G3C4-C80	140G-G6C3-C80	140G-G6C4-C80
90	90	900	140G-G2C3-C90	140G-G2C4-C90	140G-G3C3-C90	140G-G3C4-C90	140G-G6C3-C90	140G-G6C4-C90
100	100	1000	140G-G2C3-D10	140G-G2C4-D10	140G-G3C3-D10	140G-G3C4-D10	140G-G6C3-D10	140G-G6C4-D10
110	110	1100	140G-G2C3-D11	140G-G2C4-D11	140G-G3C3-D11	140G-G3C4-D11	140G-G6C3-D11	140G-G6C4-D11
125	125	1250	140G-G2C3-D12	140G-G2C4-D12	140G-G3C3-D12	140G-G3C4-D12	140G-G6C3-D12	140G-G6C4-D12
160★	‡	1600	140G-G2E3-D16	140G-G2E4-D16	140G-G3E3-D16	140G-G3E4-D16	140G-G6E3-D16	140G-G6E4-D16



★ IEC only.

‡ Adjustable thermal trip. 112 A min., 136 A med., 160 A max.

Molded Case Switch — UL489§

Rated Current $I_n$ [A]	Magnetic Trip [A] $I_m$	Cat. No.	
		3 Poles	4 Poles
125	1250	140G-G6S3-D12	140G-G6S4-D12

§ Does not provide overcurrent protection; may open above 1250 A.

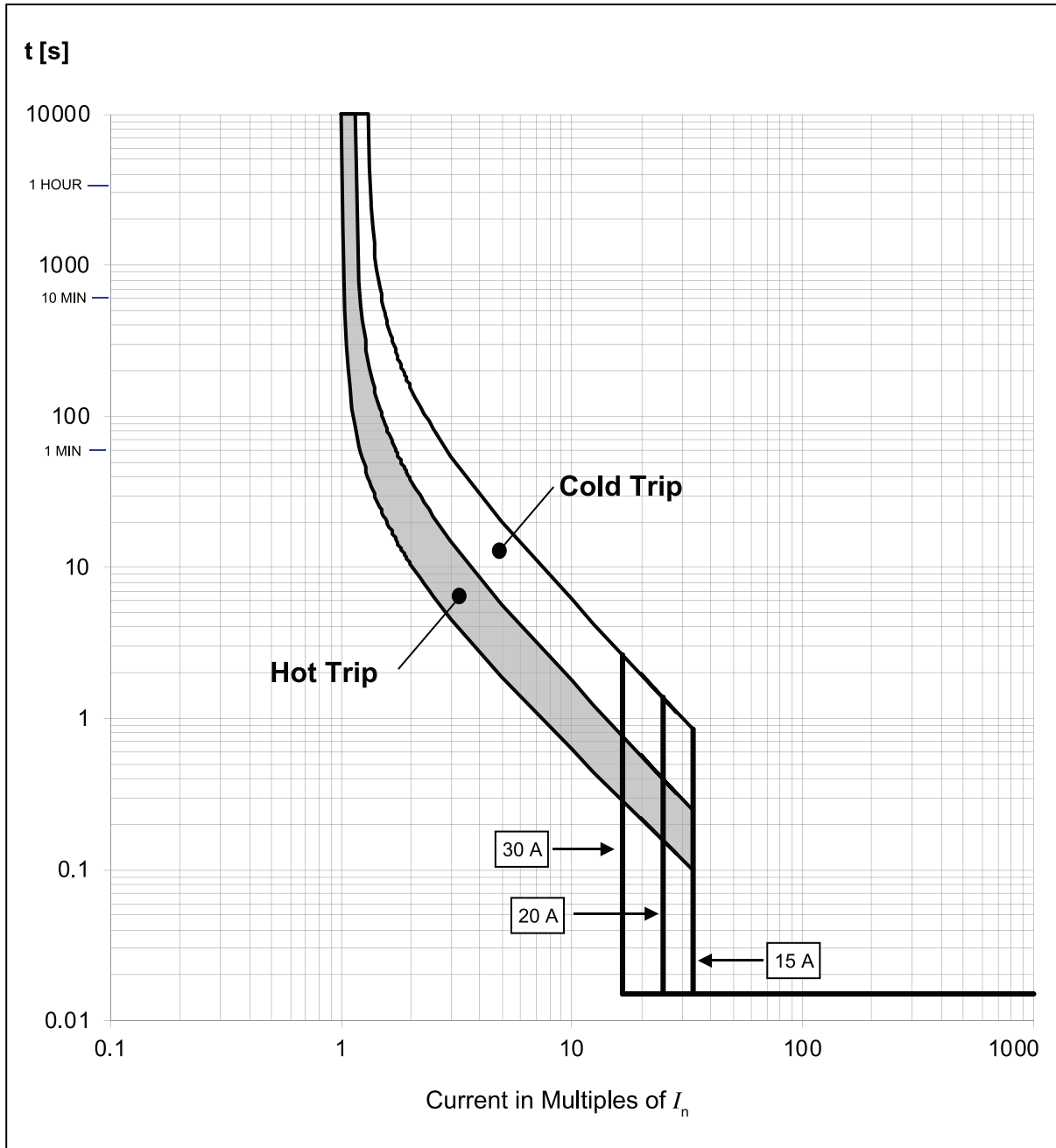


Cat. No. 140G-G6C3-D12

**Bulletin 140G**  
**Molded Case Circuit Breakers**  
**Specifications — G- and H-Frame**

		G-Frame				H-Frame†					
Max. Rated Current	[A]	125		160★	125			160★			
Rated insulation voltage, $U_i$ , IEC	[V]	800				1000					
NEMA, UL, CSA											
Interrupting Rating Code		G2	G3	G6	G2 G3 G6	H2	H3	H6	H0	H15	H2 H3 H6 H0 H15
240V AC, 50/60Hz	[kA]	50	65	100	50 65 100	65	100	150	200	200	65 100 150 200 200
480V AC, 50/60Hz	[kA]	25	35	65	25 35 65	25	35	65	100	150	25 35 65 100 150
600Y/347V AC, 50/60Hz	[kA]	10	14	25	10 14 25	—	—	—	—	—	—
600V AC, 50/60 Hz	[kA]	—	—	—	—	14	18	25	35	42	14 18 35 35 42
IEC 60947-2											
Rated ultimate short-circuit breaking capacity, $I_{cu}$											
220/230/240V AC, 50/60Hz	[kA]	65	85	100	65 85 100	65	85	100	150	200	65 85 100 150 200
380V AC, 50/60Hz	[kA]	36	50	70	36 60 70	36	50	70	120	150	26 50 70 120 150
415V AC, 50/60Hz	[kA]	36	50	70	36 50 70	36	50	70	120	150	36 50 70 120 150
440V AC, 50/60Hz	[kA]	36	50	65	36 50 65	36	50	65	100	150	36 50 65 100 150
500V AC, 50/60Hz	[kA]	30	36	50	36 50 65	30	36	50	60	70	30 36 50 60 70
525V AC, 50/60Hz	[kA]	22	35	35	22 35 35	20	25	30	36	50	20 25 30 36 50
690V AC, 50/60Hz	[kA]	6	8	10	6 8 10	10	12	15	18	20	10 12 15 18 20
250V DC, 2 Poles in Series	[kA]	36	50	70	36 50 70	36	50	70	85	100	36 50 70 85 100
500V DC, 2 Poles in Series	[kA]	—	—	—	—	—	—	—	—	—	—
500V DC, 3 Poles in Series	[kA]	36	50	70	36 50 70	36	50	70	85	100	36 50 70 85 100
750V DC, 3 Poles in Series	[kA]	—	—	—	—	—	—	—	—	—	—
Rated service short-circuit breaking capacity, $I_{cs}$											
220/230/240V AC, 50/60Hz	[kA]	75% (50)	75%	75%	75% 75% 75%	100%	100%	100%	100%	100%	100% 100% 100% 100% 100%
380V AC, 50/60Hz	[kA]	100%	100%	75%	100% 100% 75%	100%	100% 100%	100%	100%	100%	100% 100% 100% 100% 100%
415V AC, 50/60Hz	[kA]	100%	75%	50%	100% 75% 50%	100%	100%	100%	100%	100%	100% 100% 100% 100% 100%
440V AC, 50/60Hz	[kA]	50%	50%	50%	50% 50% 50%	100%	100%	100%	100%	100%	100% 100% 100% 100% 100%
500V AC, 50/60Hz	[kA]	50%	50%	50%	50% 50% 50%	100%	100%	100%	100%	100%	100% 100% 100% 100% 100%
525V AC, 50/60Hz	[kA]	50%	50%	50%	50% 50% 50%	100%	100%	100%	100%	100%	100% 100% 100% 100% 100%
690V AC, 50/60Hz	[kA]	75%	50%	50%	75 50 50%	100%	100%	100%	75%	75%	100% 100% 100% 75% 75%
250V DC, 2 Poles in Series	[kA]	100%	100%	75%	100% 100% 75%	100%	100%	100%	100%	100%	100% 100% 100% 100% 100%
500V DC, 2 Poles in Series	[kA]	—	—	—	—	—	—	—	—	—	—
500V DC, 3 Poles in Series	[kA]	100%	100%	75%	100% 100% 75%	100%	100%	100%	100%	100%	100% 100% 100% 100% 100%
750V DC, 3 Poles in Series	[kA]	—	—	—	—	—	—	—	—	—	—
Mechanical Life	[No. Ops]	25 000				25 000					
	[Ops/hr]	240				240					
Electrical Life @ 415V AC	[No. Ops]	8000				8000					
	[Ops/hr]	120				120					
Ambient Temp. w/out derating	°F [°C]	104 °F [40 °C]				104 °F [40 °C]					
Storage Temperature	°F [°C]	-40...+176 °F [-40...+80 °C]				-40...+176 °F [-40...+80 °C]					
Dimensions [Width/Depth/Height]	[mm]	3 poles: 76.2x70x130				3 poles: 90x82.5x130					
	[mm]	4 poles: 101.6x70x130				4 poles: 120x82.5x130					

★ IEC version with a 160 A  $I_{cu}$  rating  
† Cannot be reverse fed above 480V



Rated Current $I_n$ [A]	Magnetic Trip $I_3$ [A]
15...30	500

Instantaneous (Magnetic) Trip tolerance: -20% / +30%