

Bulletin 140G Current-Limiting Molded Case Circuit Breakers



140G/140MG Features

- Interrupting capacity from 25 to 150 kA allows a single unit to address many applications, thereby reducing the number of different products to be specified
- Electronic trip units available from 25 to 3000 A
- Wide range of operating mechanisms to fit with a variety of panel configurations
- Short circuit current rating (SCCR) coordination with Allen-Bradley contactors, overload relays and motor starters

Current-limiting molded case circuit breakers (MCCBs) are rated to open in less than half of a cycle under fault conditions.



140G J-Frame 250A

140G K-Frame 400A

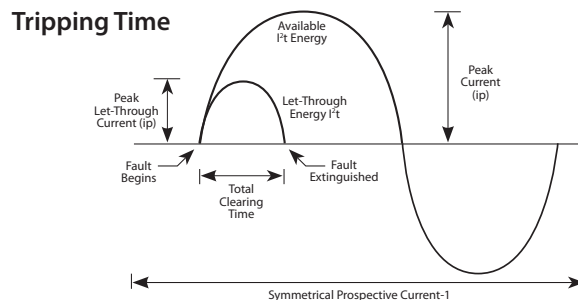
140G H-Frame 125A

Allen-Bradley bulletin 140G current-limiting molded case circuit breakers (MCCBs) are rated to open in less than half of a cycle under fault conditions. This performance limits the let-through energy, providing enhanced protection for downstream components. In addition, per UL508A SB4, panel designers can use a current limiting circuit breaker's rating to calculate overall panel/branch-circuit short circuit current ratings without having to test the specific components in combination.

These current limiting-rated MCCBs are available in three frame sizes:

- 140G H-Frame – 65 kA and 100 kA @ 480V
- 140G J-Frame – 65 kA and 100 kA @ 480V
- 140G K-Frame – 65 kA and 100 kA @ 480V

Because they are based on our standard 140G MCCBs, the current limiting versions share the wide-range of available accessories. They are available as both completely assembled MCCBs and as components.



LISTEN.
THINK.
SOLVE.

Allen-Bradley Motors

Allen-Bradley • Rockwell Software

Rockwell Automation

Product Specifications

Note: the following catalog numbering scheme is provided for reference as to the extent of the product selection. For additional selection information, consult publication 140G-SG001. For selectivity information consult publication 140G-TD050.

140G – **HC** **6** **C** **3** – **C60** – **SD** – **AA**
a **b** **c** **d** **e** **f** **g** **g**

Bulletin Number		Frame/Rating		Interrupting Rating/Breaking Capacity (based on I _c at 480V)		Protection Type	
Code	Description	Code	Description	Code	Description	Code	Description
140G	Global Molded Case Circuit Breaker	HC	125A	6	65 kA	C	Fixed thermal/adjust magnetic
		JC	250A	0	100 kA	F	Adjust thermal/adjust magnetic
		KC	400A	T	Trip unit	H	Electronic LSI – long, short, instant
						I	Electronic LSI – long, short instant and ground fault
						K	Electronic LSI – MM long, short instant, ground fault and maintenance mode (K-frame only)
						X	Breaker frame

No. of Poles	
Code	Description
3	3 poles

Current Range	
H- and J-Frame	
Code	Description
C	e.g., C30 = 30 A
D	e.g., D16 = 160 A
Blank	Frame only
K-Frame MCCBs	
Code	Description
D30	e.g., 300 A
D40	e.g., 400 A
Blank	Frame only

Factory Installed Internal Options ⁽¹⁾			
Shunt Trip and Undervoltage Release Units		Auxiliary and Alarm Contacts, Trip	
Code	Description	Code	Description
SJ	Shunt trip, 24...30V AC/DC	KA ^(HJ)	1 aux. contact, 250V
SK	Shunt trip, 48...60V AC/DC	AA	1 aux., 1 alarm contact, 250V
SD	Shunt trip, 110...127V AC; 110...125V DC	BA ^(HJ)	2 aux., 1 alarm contact, 250V
SA	Shunt trip, 220...240V AC; 220...250V DC	CA ^(K)	3 aux., 1 alarm contact, 250V
SB	Shunt trip, 380...440V AC	DA ^(HJ)	1 trip unit alarm contact, 250V
SC	Shunt trip, 480...525V AC	FB	2 aux. contacts, 400V
UJ	Undervoltage release, 24...30V AC/DC	AB	1 aux., 1 alarm contact, 400V
UR	Undervoltage release, 48V AC/DC	KJ ^(HJ)	1 aux. contact, 24V
UD	Undervoltage release, 110...127V AC; 110...125V DC	AJ ^(HJ)	1 aux., 1 alarm contact, 24V
UA	Undervoltage release, 220...240V AC; 220...250V DC	DJ ^(HJ)	1 trip unit alarm contact, 24V
UB	Undervoltage release, 380...440V AC	CJ ^(K)	3 aux., 1 alarm contact, 24V
UC	Undervoltage release, 480...525V AC		
No Digit	No selection		

Consult the publications listed below for detailed let-through and current curves.

kA	Voltage	Let-Through Energy Curve	IP Curve Number
65	480V	140G-TD056A-EN-P	140G-TD052A-EN-P
100	480V	140G-TD055A-EN-P	140G-TD051A-EN-P
65	600V	140G-TD058A-EN-P	140G-TD054A-EN-P
100	600V	140G-TD057A-EN-P	140G-TD053A-EN-P

(1) Select up to two internal options: 1 for left side mounting (shunt trip or undervoltage release), 1 for right (auxiliary or alarm contact).
(HJ) H- and J-frame only.
(K) K-frame only.

Allen-Bradley, LISTEN. THINK. SOLVE. and Rockwell Software are trademarks of Rockwell Automation, Inc. Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846