

Molded Case Circuit Breakers

Catalog Number Explanation — 400 A, K-Frame

Complete Circuit Breaker Assemblies — 400 A, K-Frame

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 - K
3
C
3 - C60 - SD - AA

a
b
c
d
e
f
g

a

Bulletin No.	
Code	Description
140G	Global Molded Case Circuit Breaker

b

Frame/Rating	
Code	Description
K	400 A

c

Interrupting Rating/Breaking Capacity (based on I_c at 480V)	
Code	Description
3	35 kA
6	65 kA
0	100 kA
15	150 kA
T	Trip unit

d

Protection Type	
Code	Description
F	Adjust thermal/ adjust magnetic
H	Electronic LSI -long, short, instant
I	Electronic LSI -long, short, instant & ground fault
K	Electronic LSIG-MM -long, short, instant, ground fault & MM
S	Molded case switch (isolator)
X	Breaker Frame

e

Poles	
Code	Description
3	3 poles
4	4 poles

f

Current Range	
Code	Description
D25	e.g., 250 A
D30	e.g., 300 A
D40	e.g., 400 A
Blank	Frame only

g

Factory-Installed Internal Options♦	
Shunt Trip and Undervoltage Release Units	
Code	Description
SJ	Shunt Trip, 24...30V AC/DC
SK	Shunt Trip, 48...60V AC/DC
SD	Shunt Trip, 110...127V AC; 110...125V DC
SA	Shunt Trip, 220...240V AC; 220...250V DC
SB	Shunt Trip, 380...440V AC
SC	Shunt Trip, 480...525V AC
UJ	Undervoltage Release, 24...30V AC/DC
UR	Undervoltage Release, 48V AC/DC
UD	Undervoltage Release, 110...127V AC; 110...125V DC
UA	Undervoltage Release, 220...240V AC; 220...250V DC
UB	Undervoltage Release, 380...440V AC
UC	Undervoltage Release, 480...525V AC
No Digit	No Selection
Auxiliary and Alarm Contacts	
Code	Description
AA	1 Aux., 1 Alarm Contact, 250V
CA	3 Aux., 1 Alarm Contact, 250V
AB	1 Aux., 1 Alarm Contact, 400V
FB	2 Aux. Contacts, 400V
CJ	3 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.

Breaker Frames & Trip Units



Breaker Frames, 400 A Rated Current

Interrupting Rating (50/60 Hz), UL 489/CSA C22.2-5, No. 5-02 [kA]					Breaking Capacity (50/60 Hz), IEC 60947-2										Breaking Capacity (DC), IEC 60947-2 ‡		Cat. No.	
240V	480V	600V	2-pole in series	3-Pole in series	220V★		415V		440V★		690V		500V DC (3-pole in series)		3 Poles	4 Poles		
			500V DC ‡	600V DC ‡	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}]				
100	35	25	35	25	85	100	50	100	40	100	25	100	36	100	140G-K3X3	140G-K3X4		
150	65	35	50	35	100	100	70	100	65	100	40	100	50	100	140G-K6X3	140G-K6X4		
200	100	65	65	50	200	100	120	100	100	100	70	100	70	100	140G-K0X3	140G-K0X4		
200	150	100	100	65	200	100	200	100	180	100	80	100	100	100	140G-K15X3	140G-K15X4		

★ These ratings have not been tested for the CCC listing.
 ‡ DC rating is applicable for thermal-magnetic trip unit only.

Trip Units, Thermal-Magnetic

Rated Current I_n [A]	Thermal Trip [A] $I_r = I_n$	Magnetic Trip [A] I_m	Protection Type	Cat. No.	
				3 Poles	4 Poles
300	210...300	1500...3000	F (Adjustable Thermal/ Adjustable Magnetic)	140G-KTF3-D30	140G-KTF4-D30
400	280...400	2000...4000	F (Adjustable Thermal/ Adjustable Magnetic)	140G-KTF3-D40	140G-KTF4-D40

Trip Units, Electronic LSI (Long, Short, Instantaneous)

Rated Current I_n [A]	Protection Type					Cat. No.	
	L		S		I	3 Poles	3 Poles
	$I_1=0.4...1 \times I_n$	$t_1=sec.$	$I_2=0.6...10 \times I_n$	$t_2=sec.$	$I_3=1.5...12 \times I_n$		
300	120...300	3, 6, 9, 18	180...3000	0.05, 0.1, 0.25, 0.5	450...3600	140G-KTH3-D30	140G-KTH4-D30
400	160...400	3, 6, 9, 18	240...4000	0.05, 0.1, 0.25, 0.5	600...4800	140G-KTH3-D40	140G-KTH4-D40

Trip Units, Electronic LSIG (Long, Short, Instantaneous, Ground Fault)

Rated Current I_n [A]	Protection Type							Cat. No.	Cat. No.
	L		S		I	G			
	$I_1=0.4...1 \times I_n$	$t_1=sec.$	$I_2=0.6...10 \times I_n$	$t_2=sec.$	$I_3=1.5...12 \times I_n$	$I_4=0.2...1 \times I_n$	$t_4=sec.$	3 Poles	4 Poles
300	120...300	3, 6, 9, 18	180...3000	0.05, 0.1, 0.25, 0.5	450...3600	60...300	0.1, 0.2, 0.4, 0.8	140G-KT13-D30	140G-KT14-D30
400	160...400	3, 6, 9, 18	240...4000	0.05, 0.1, 0.25, 0.5	600...4800	80...400	0.1, 0.2, 0.4, 0.8	140G-KT13-D40	140G-KT14-D40

Trip Units, Electronic LSIG-MM (Long, Short, Instantaneous, Ground Fault - Maintenance Mode)

Rated Current I_n [A]	Protection Type							Cat. No.	Cat. No.
	L		S		I	G			
	$I_1=0.4...1 \times I_n$	$t_1=sec.$	$I_2=0.6...10 \times I_n$	$t_2=sec.$	$I_3=1.5...12 \times I_n$	$I_4=0.2...1 \times I_n$	$t_4=sec.$	3 Poles	4 Poles
300	120...300	3, 6, 9, 18	180...3000	0.05, 0.1, 0.25, 0.5	450...3600	60...300	0.1, 0.2, 0.4, 0.8	140G-KTK3-D30	140G-KTK4-D30
400	160...400	3, 6, 9, 18	240...4000	0.05, 0.1, 0.25, 0.5	600...4800	80...400	0.1, 0.2, 0.4, 0.8	140G-KTK3-D40	140G-KTK4-D40

Assembled molded case circuit breakers found on pages 22...24