

Product Selection Guide

QM1DC - 125 H 4300 / DC1000 / 80A / /

QM1DC	125	H	2	2
↓	↓	↓	↓	↓
Product code	Frame size rated current	Rated ultimate short-circuit breaking capacity	Pole number	Release type
DC circuit breaker	125, 160, 250, 400, 800	H : higher level type	2:2-pole 3:3-pole 4:4-pole	2-short-circuit release 3-complex release




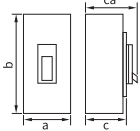
EKM8DC	125	H	2
↓	↓	↓	↓
Accessory	Rated operating voltage	External accessory	Wiring method
0: No 2: Auxiliary contact 3: Complex release	DC 500V-1000V	Null: body operation P: electric operation GZ3: rotary handle	Null: front-board wiring B: back-board wiring C: plug-in type

Moulded Case Circuit Breaker Series QM1DC



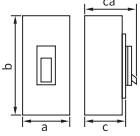
Quality & Service creates value



Main Performance Indexes

Frame current A ()		125	160	250
Model		QM1DC-125H	QM1DC-160H	QM1DC-250H
Pole number		2,3,4	2,3,4	2,3,4
				
Rated current (A)		10,16, 20, 25, 32, 40, 50 63, 80, 100, 125	10, 16, 20, 25, 32, 40, 50 63,80, 100, 125, 140, 160	100,125,140,160 180, 200, 225, 250
Rated voltage (V)		DC250V, DC500V DC750V,DC1000V	DC250V, DC500V DC750V,DC1000V	DC250V, DC500V DC750V,DC1000V
Rated insulation voltage (V)		DC1000V	DC1000V	DC1000V
Short-circuit breaking capacity(KA) Icu(Ics=70%Icu)		250VDC(35KA),500VDC(25KA) DC750V(15KA),DC1000V(10KA)	250VDC(35KA),500VDC(25KA) DC750V(15KA),DC1000V(10KA)	250VDC(35KA),500VDC(25KA) DC750V(15KA),DC1000V(10KA)
Operating cycle number	Electrical life	6000	3000	3000
	Mechanical life	9000	7000	7000
Outline dim(mm) a-b-c-ca 	2P	50-130-68-90	60-155-88-115	-
	3P	75-130-68-90	90-155-88-115	105-165-88-115
	4P	100-130-68-90	120-155-88-115	140-165-88-115
Weight (kg)	2P	0.55	1.0	-
	3P	0.65	1.1	1.5
	4P	0.8	1.4	1.9
Electric operating device (MD)			●	
External driving operating handle			●	
Automatic release		Thermal electromagnetic type		

Main Performance Indexes

Frame current A ()		400	800
Model		QM1DC-400H	QM1DC-800H
Pole number		2,3, 4	2,3, 4
			
Rated current (A)		250,315, 350, 400, 630	500, 630, 700, 800
Rated voltage (V)		DC250V, DC500V DC750V,DC1000V	DC250V, DC500V DC750V,DC1000V
Rated insulation voltage (V)		DC1000V	DC1000V
Short-circuit breaking capacity(KA) Icu(Ics=70%Icu)		250VDC(35KA),500VDC(25KA) DC750V(15KA),DC1000V(10KA)	250VDC(35KA),500VDC(25KA) DC750V(15KA),DC1000V(10KA)
Operating cycle number	Electrical life	2000	1500
	Mechanical life	4000	4000
Outline dim(mm) a-b-c-ca 	2P	140-257-103-155	210-275-103-155
	3P	140-257-103-155	210-275-103-155
	4P	184-257-103-155	280-275-103-155
Weight (kg)	2P	5.0	9.5
	3P	5.7	12.5
	4P	7.5	1.4
Electric operating device (MD)			●
External driving operating handle			●
Automatic release		Thermal electromagnetic type	

DC System Protection

System type		Grounding system		Ungrounded system
Various types of reformation		One pole of DC power is grounded	Neutral point of DC power is grounded	
	Fault A	Max. Isc that only to the positive pole	Isc is close to max. Isc and only to the positive pole, voltage is $U/2$	No effect
Fault effect	Fault B	Max. Isc that includes two poles	Max. Isc that includes two poles	Max. Isc that includes two poles
	Fault C	No effect	Same as fault A but only to the negative pole	No effect
The most serious situation		Fault A	Faults A and C	Fault B
Pole breaking		It can be connected at the positive in series, and commonly execute the breaking	At each pole, they must be at $U/2$	The two poles to be disconnected are evenly distributed between the two electrodes

Wiring Method

Un < 250V					
	1P	2P			
Un < 800V					
	2P	3P	2P	4P	
	Un < 1000V				
		3P	4P	4P	