

Molded Case Circuit Breakers

SELECTION / APPLICATION

Reference Guide

Thermal-Magnetic Trip Breakers

Page	Load Center Breakers						Panelboard Breakers					
	QT ^①	QP, QPP ^②	QPH, QPPH ^②	HQP, HQPP ^②	HQPPH ^②	QPJ ^②	BL	BLH	HBL	BQD, BQD6 ^③		
	1-23	1-22, 1-27	1-22, 1-27	1-22, 1-27	1-27	1-27	6-14	6-14	6-14	6-14		
	Poles	1, 2	1, 2, 3	1, 2, 3	1, 2, 3 ^⑦	2	1, 2, 3,	1, 2, 3	1, 2, 3 ^⑦	1, 2, 3		
	Amperes, Continuous	15-50	15-125 ^{④⑤}	15-125 ^{④⑤}	15-125 ^⑦	100-200	150-200	15-125 ^③	15-125 ^③	15-100 ^⑦		
Ratings	AC	Volts (60 Hertz)	1-Pole	120/240	120/240	120/240	120/240	120/240	120/240	120/240	277	
			2-Pole	120/240	120/240	120/240	120/240	120/240	120/240	120/240	480/277	
			3-Pole	—	240	240	240	240	240	240	240	480/277
		UL Interrupting Rating — Symmetrical RMS Amperes	120V	10,000	10,000	22,000	65,000	—	—	10,000	22,000	65,000
			240V	10,000	10,000	22,000	65,000	100,000	10,000	10,000	22,000	65,000
			277V	—	—	—	—	—	—	—	—	—
	347V		—	—	—	—	—	—	—	—	—	
	480/277V	—	—	—	—	—	—	—	—	—		
	600/347V	—	—	—	—	—	—	—	—	—		
	DC	Volts — 2-Pole	—	—	—	—	—	—	—	—	250	
Interrupting Rating — DC Amperes		—	—	—	—	—	—	—	—	14,000 ^⑧		
Dimensions in inches	Height	15-50A	—	2.87	2.87	—	—	7.00	3.56	3.56	—	
		15-30A	—	—	—	—	—	—	—	3.75	—	
		15-60A	3.12	—	—	—	—	—	—	—	—	
		55-125A	—	3.12	3.12	3.12	3.12	3.00 ^⑨	3.75	—	3.75	
	Width	1-Pole	1.00	1.00	1.00	1.00	—	—	1.00	1.00	1.00	
		2-Pole	2.00 ^①	2.00 ^②	2.00 ^②	2.00	4.00 ^②	⑩	2.00	2.00	2.00	
		3-Pole	2.00 ^①	3.00	3.00	3.00	—	3.00 ^⑨	3.00	3.00	3.00	
Depth	2.06	2.37	2.37	2.37	2.37	2.34	2.37	2.37	2.69	2.23		
Overcurrent Devices	Thermal and Fixed Magnetic Trip	√	√	√	√	√	√	√	√	√		
	Molded Case Switch	—	√ ^⑥	—	—	—	—	—	—	—		
Accessories & Modifications	Undervoltage Trip	—	—	—	—	—	—	—	—	√		
	Shunt Trip	—	√ ^⑥	√ ^⑥	√ ^⑥	√ ^⑥	—	√	√	√		
	Auxiliary Switch	—	—	—	—	√ ^⑥	—	√	√	√		
	Alarm Switch	—	—	—	—	—	—	—	—	—		
Individual Enclosures	Type 1 — Indoor Surface	√	√	√	√	√	—	—	—	—		
	Type 1 — Indoor, Flush	—	√	√	√	√	—	—	—	—		
	Type 3R — Outdoor-Rainproof	—	√	√	√	√	—	—	—	—		

CIRCUIT BREAKERS



For inches / millimeters conversion, see Application Data section.

③ BQD6 CSA certified 10,000A @ 600Y/347V 15-70A only.
 ④ Types QPP, QPPH, HQPP and HQPPH are special 2-pole configurations for load center mains. Amperage range = 125-225A, width = 4 in.

⑤ Single pole breakers available in ratings 15-70A only.
 ⑥ 125A, 2-pole 120/240V AC only.
 ⑦ 14,000A IR at 277/480V AC only.
 ⑧ Not applicable to types QPP and QPPH.
 ⑨ Single pole circuit breakers available in ratings 15-70A only, 125A available as a 2-pole only.
 ⑩ Not applicable to type HQPP and HQPPH.

⑪ Fits only Siemens EQIII load centers. Breaker is 2 or 3 poles wide.

Molded Case Circuit Breakers

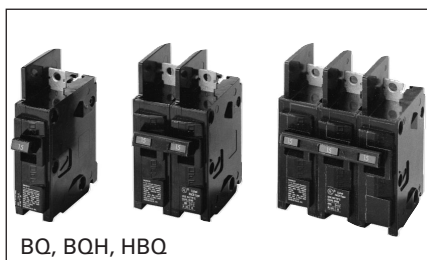
SELECTION / APPLICATION

Reference Guide

Thermal-Magnetic Trip Breakers

Page			General Purpose Breakers									
			BQ	BQH	HBQ	QJ2	QJH2	QJ2-H	HQJ2-H	CQD	NGG	
			6-18	6-18	6-18	6-20	6-20	6-20	6-20	6-21	6-22	
Ratings	AC	Poles	1, 2, 3	1, 2, 3	1, 2, 3	2, 3	2, 3	2, 3	3	1, 2, 3	1, 2, 3	
		Amperes, Continuous	1-Pole	15-70	15-70	15-50	—	—	—	—	15-100	15-100
			2-Pole	15-125	15-100	15-70	60-225	60-225	60-225	—	15-100	15-125
			3-Pole	15-100	15-100	15-100				100-225	15-100	15-125
		Volts (60 Hertz)	1-Pole	120/240	120/240	120/240	—	—	—	—	277	347
			2-Pole				—	—	—	—	—	—
			3-Pole	240	240	240	240	240	240	—	480/277	600/347
		UL Interrupting Rating — Symmetrical RMS Amperes	120V	10,000	22,000	65,000	—	—	—	—	65,000	65,000
			240V	10,000	22,000	65,000	10,000	22,000	42,000	100,000	65,000	65,000
			480/277V	—	—	—	—	—	—	—	14,000	25,000
			600/347V	—	—	—	—	—	—	—	10,000 ^①	18,000
		DC	Volts — 2-Pole	—	—	—	—	—	—	—	250	250
Interrupting Rating — DC Amperes	—		—	—	—	—	—	—	14,000	14,000		
Dimensions in inches	Height	15-50A	3.75	3.75	4.00	—	—	—	—	4.50	—	
		55-125A	4.00	4.00	4.00	—	—	—	—	4.50	—	
		60-225A	—	—	—	7.00	7.00	7.00	7.00	—	—	
	Width	1-Pole	1.00	1.00	1.00	—	—	—	—	1.00	1.00	
		2-Pole	2.00	2.00	2.00	3.00	3.00	3.00	—	2.00	2.00	
3-Pole		3.00	3.00	3.00	4.50	4.50	4.50	4.50	3.00	3.00		
Depth		2.37	2.37	2.37	2.34	2.34	2.53	2.53	2.87	2.90		
Overcurrent Devices	Thermal and Fixed Magnetic Trip	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Molded Case Switch	✓	—	—	✓	—	—	—	—	—		
Accessories & Modifications	Undervoltage Trip	—	—	—	—	—	—	—	✓	—		
	Shunt Trip	✓	✓	✓	✓ ^①	✓ ^①	✓ ^①	✓ ^①	✓	✓		
	Auxiliary Switch	✓	✓	✓	✓ ^①	✓ ^①	✓ ^①	✓ ^①	✓	✓		
	Alarm Switch	—	—	—	✓	✓	—	—	✓	✓		
	Mechanical Interlock	—	—	—	✓	✓	✓	✓	—	—		
	Fungus Proofing (ref. page 6-74)	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Individual Enclosures	Type 1 — Indoor Surface	✓	✓	✓	✓	✓	✓	✓	—	✓		
	Type 1 — Indoor, Flush	✓	✓	✓	✓	✓	✓	✓	—	✓		
	Type 3R — Outdoor-Rainproof	✓	✓	✓	✓	✓	✓	✓	—	✓		

9
CIRCUIT BREAKERS



For inches / millimeters conversion, see Application Data section.

① 3-pole breakers only (factory installed only).

② Type CQD6—CSA only.

Molded Case Circuit Breakers

SELECTION / APPLICATION

Reference Guide

Thermal-Magnetic Trip Breakers

				General Purpose Breakers												
				ED2	ED4	ED6	HED4	HHED6	CED6	FD6A, FXD6A	HFD6, HFXD6	HHFD6, HHFXD6	CFD6			
Page				6-24	6-24	6-24	6-25	6-25	6-25	6-27	6-28	6-28	6-28			
Ratings	AC	Poles		1, 2, 3	1, 2, 3	1 ^① , 2, 3	1, 2, 3	2, 3	2, 3	2, 3	2, 3	2, 3	2, 3			
		Amperes, Continuous		15-100	15-125	15-125	15-125	15-125	15-125	15-125	70-250	70-250	70-250	70-250		
		Volts 50/60HZ		1-Pole	120	277	347	277	—	—	—	—	—	—		
					2-Pole	240	480	600	480	600	600	600	600	600	600	
						3-Pole	240	480	600	480	600	600	600	600	600	
				Interrupt Rating Symmetrical RMS Amperes	UL	120V	10,000	—	—	100,000	—	—	—	—	—	
						240V	10,000	65,000	65,000	100,000 ^②	100,000	200,000	65,000	100,000	200,000	200,000
						277V	—	22,000 ^③	—	65,000 ^②	—	—	—	—	—	—
						347V	—	—	30,000	—	—	—	—	—	—	—
						480V	—	18,000	25,000	42,000	65,000	200,000	35,000	65,000	100,000	200,000
			600V			—	—	18,000	—	25,000	100,000	18,000	25,000	25,000	100,000	
			IEC 947-2 50/60HZ	220/240V	lcu	—	—	65,000	—	—	200,000 ^②	65,000	100,000	200,000		
					lcs	—	—	17,000	—	—	—	33,000	50,000	100,000	—	
				380/415V	lcu	—	—	35,000	—	—	200,000 ^②	35,000	65,000	100,000	—	
					lcs	—	—	9,000	—	—	—	18,000	33,000	50,000	—	
				500V	lcu	—	—	18,000	—	—	—	20,000	42,000	65,000	—	
					lcs	—	—	5,000	—	—	—	10,000	21,000	33,000	—	
			DC	2-Pole, 250V DC Interrupting Ratings		5,000	30,000	30,000	30,000	—	30,000	30,000	30,000	—		
				3-Pole, 500V DC Interrupting Ratings ^④		—	—	18,000	—	—	50,000	18,000	25,000	—		
	Dimensions in inches	Height			6.34	6.34	6.34	6.34	6.58	9.26	9.50	9.50	11.00	14.12		
Width		1-Pole	1.00	1.00	1.00	1.00	—	—	—	—	—	—				
		2-Pole	2.00	2.00	2.00	2.00	2.00	2.00	4.50	4.50	4.50	4.50				
		3-Pole	3.00	3.00	3.00	3.00	3.00	3.00	4.50	4.50	4.50	4.50				
Depth			4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00				
Overcurrent Devices	Thermal and Fixed Magnetic Trip			✓	✓	✓	✓	✓	✓	—	—	—	—			
	Thermal and Adjustable Magnetic Trip			—	—	—	—	—	—	✓	✓	✓	✓			
	Adjustable Magnetic Trip Only Motor Circuit Protector			—	—	✓	—	—	✓	✓	—	—	✓			
	Molded Case Switch			✓	✓	✓	—	—	✓	✓	—	—	✓			
Accessories & Modifications	Undervoltage Trip			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Shunt Trip			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Auxiliary Switch			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Alarm Switch			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Mechanical Interlock			—	—	—	—	—	—	✓	✓	✓	✓			
	Rear Connection Studs			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Electric Motor Operator			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Plug-In Mounting Assembly			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Fungus Proofing (ref. page 6-74)			—	✓	✓	✓	✓	✓	✓	✓	✓	✓/✓			
Individual Enclosures	Type 1 – Indoor Surface			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Type 1 – Indoor, Flush			✓	✓	✓	✓	✓	✓	—	✓	—	✓			
	Type 3R – Outdoor-Rainproof			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Type 7 – Flammable Gas Atmosphere			✓	✓	✓	✓	✓	—	✓	✓	✓	—			
	Type 9 – Combustion Dusttight			✓	✓	✓	✓	✓	—	✓	✓	✓	—			
	Type 5, 12 – Lint, Fine Dust, Oils, Coolants			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Type 12K – Semi-Dusttight			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				

CIRCUIT BREAKERS

For inches / millimeters conversion, see Application Data section.

① 1-pole only.

② 35-100A: 25,000 AIR at 277V AC/15-30A: 65,000 AIR at 277V AC.

③ For DC UPS system application.

④ Single pole ED6 (15-30A) 30kA, (35-100A) 18 kA. CSA Only.

⑤ Single pole HED4, 15-30A: 65,000 AIR at 240V AC; single pole HED4, 35-100A: 25,000 AIR at 240V AC.

Molded Case Circuit Breakers

SELECTION / APPLICATION

Reference Guide

Thermal-Magnetic Trip Breakers

Page		General Purpose Breakers												
		JXD2-A	JD6-A, JXD6-A	HJD6-A, HJXD6-A	HHJD6-A, HHJXD6-A	CJD6	LD6, LXD6	HLD6, HLXD6	HHLXD6, HHLXD6	CLD6				
Ratings	AC	Poles	2, 3	2, 3	2, 3	2, 3	2, 3	2, 3	2, 3	2, 3	2, 3			
		Amperes, Continuous	200-400	200-400	200-400	200-400	200-400	250-600	250-600	250-600	450-600			
		Volts 50/60HZ	2-Pole	240	600	600	600	600	600	600	600	600		
			3-Pole	240	600	600	600	600	600	600	600	600		
		Interrupt Rating Symmetrical RMS Amperes	UL	240V	65,000	65,000	100,000	200,000	200,000	65,000	100,000	200,000	200,000	
				480V	—	35,000	65,000	100,000	150,000	35,000	65,000	100,000	150,000	
				600V	—	25,000	35,000	50,000	100,000	25,000	35,000	50,000	100,000	
			IEC 947-2 50/60HZ	220/240V	lcu	—	65,000	100,000	200,000	—	65,000	100,000	200,000	—
					lcs	—	33,000	50,000	100,000	—	33,000	50,000	100,000	—
				380/415V	lcu	—	40,000	65,000	100,000	—	40,000	65,000	100,000	—
	lcs				—	20,000	33,000	50,000	—	20,000	33,000	50,000	—	
	500V				lcu	—	30,000	42,000	65,000	—	30,000	42,000	65,000	—
	lcs	—	15,000	21,000	33,000	—	15,000	21,000	33,000	—				
	DC	2-Pole 250V DC Interrupting Ratings		30,000	30,000	30,000	—	30,000	30,000	30,000	—	30,000		
		3-Pole, 500V DC Interrupting Ratings [Ⓞ]		—	25,000	35,000	—	50,000	25,000	35,000	—	50,000		
Dimensions in inches	Height		11.00	11.00	11.00	11.00	17.86	11.00	11.00	11.00	17.86			
	Width	2-Pole	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50			
		3-Pole	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50			
Depth		4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00				
Overcurrent Devices	Thermal and Adjustable Magnetic Trip		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Adjustable Magnetic Trip Only Motor Circuit Protector		—	—	—	—	✓	✓	—	—	✓			
	Molded Case Switch		✓	✓	—	—	✓	✓	—	—	✓			
Accessories & Modifications	Undervoltage Trip		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Shunt Trip		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Auxiliary Switch		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Alarm Switch		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Mechanical Interlock		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Rear Connection Studs		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Electric Motor Operator		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Plug-In Mounting Assembly		✓	✓	✓	✓	✓	✓	✓	✓	✓			
Fungus Proofing (ref. page 6-74)		—	✓	✓	✓	✓	✓	✓	✓	✓				
Individual Enclosures	Type 1 — Indoor Surface		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	Type 1 — Indoor, Flush		—	—	—	—	—	✓	—	—	—			
	Type 3R — Outdoor-Rainproof		✓	✓	✓	✓	—	✓	✓	✓	—			
	Type 7 — Flammable Gas Atmosphere		✓	✓	✓	✓	—	✓	✓	✓	—			
	Type 9 — Combustion Dusttight		✓	✓	✓	✓	—	✓	✓	✓	—			
	Type 5, 12 — Lint, Fine Dust, Oils, Coolants		✓	✓	✓	✓	✓	✓	✓	✓	✓			
Type 12K — Semi-Dusttight		—	✓	✓	✓	—	✓	✓	✓	—				

9
CIRCUIT BREAKERS

For inches / millimeters conversion, see Application Data section.

[Ⓞ] For DC UPS application.

Molded Case Circuit Breakers

SELECTION / APPLICATION

Reference Guide

Thermal-Magnetic Trip Breakers

Page		General Purpose Breakers											
		LMD6, LMXD6	HLM6, HLMXD6	MD6, MXD6	HMD6, HMXD6	CMD6	ND6, NXD6	HND6, HNXD6	CND6				
Ratings	AC	Poles	2, 3	2, 3	2, 3	2, 3	3	2, 3	2, 3	3			
		Amperes, Continuous	500-800	500-800	500-800	500-800	400-800	800-1200	800-1200	800-1200			
		Volts 50/60 HZ	2-Pole	600	600	600	600	600	600	600	600		
			3-Pole	600	600	600	600	600	600	600	600		
		Interrupt Rating Symmetrical RMS Amperes	UL	240V	65,000	100,000	65,000	100,000	200,000	65,000	100,000	200,000	
				480V	50,000	65,000	50,000	65,000	100,000	50,000	65,000	100,000	
				600V	25,000	25,000	25,000	50,000	65,000	25,000	50,000	65,000	
			IEC 947-2 50/60HZ	220/240V	lcu	65,000	100,000	65,000	100,000	200,000	65,000	100,000	200,000
					lcs	33,000	50,000	33,000	50,000	100,000	33,000	50,000	100,000
				380/415V	lcu	40,000	65,000	40,000	65,000	100,000	40,000	65,000	100,000
	lcs				20,000	33,000	20,000	33,000	50,000	20,000	33,000	50,000	
	500V				lcu	30,000	42,000	30,000	42,000	65,000	30,000	42,000	65,000
	lcs	15,000	21,000	15,000	21,000	33,000	15,000	21,000	33,000				
	DC	2-Pole 250V DC Interrupting Ratings		30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000		
		3-Pole, 500V DC Interrupting Ratings ^①		25,000	50,000	25,000	50,000	50,000	25,000	50,000	50,000		
Dimensions in inches	Height		16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00			
	Width	2-Pole	7.50	7.50	9.00	9.00	—	9.00	9.00	—			
		3-Pole	7.50	7.50	9.00	9.00	9.00	9.00	9.00	9.00			
Depth		4.59	4.59	6.19	6.19	6.19	6.19	6.19	6.19				
Overcurrent Devices	Thermal and Fixed Magnetic Trip		—	—	—	—	—	—	—	—			
	Thermal and Adjustable Magnetic Trip		✓	✓	✓	✓	✓	✓	✓	✓			
	Adjustable Magnetic Trip Only Motor Circuit Protector		✓	—	✓	—	✓	—	—	—			
	Molded Case Switch		✓	✓	✓	—	✓	✓	—	✓			
Accessories & Modifications	Undervoltage Trip		✓	✓	✓	✓	✓	✓	✓	✓			
	Shunt Trip		✓	✓	✓	✓	✓	✓	✓	✓			
	Auxiliary Switch		✓	✓	✓	✓	✓	✓	✓	✓			
	Alarm Switch		✓	✓	✓	✓	✓	✓	✓	✓			
	Mechanical Interlock		✓	✓	✓	✓	✓	✓	✓	✓			
	Rear Connection Studs		✓	✓	✓	✓	✓	✓	✓	✓			
	Electric Motor Operator		✓	—	✓	✓	✓	✓	✓	✓			
	Plug-In Mounting Assembly		—	✓	✓	✓	✓	—	✓	✓			
Fungus Proofing (ref. page 6-74)		—	✓	✓	✓	✓	✓	✓	✓				
Individual Enclosures	Type 1 — Indoor Surface		✓	—	✓	✓	✓	✓	✓	✓			
	Type 1 — Indoor, Flush		—	✓	—	—	—	—	—	—			
	Type 3R — Outdoor-Rainproof		✓	—	✓	✓	✓	✓	—	✓			
	Type 5, 12 — Lint, Fine Dust, Oils, Coolants		—	—	✓	✓	✓	✓	✓	✓			
	Type 7 — Flammable Gas Atmosphere		—	—	—	—	—	—	—	—			
	Type 9 — Combustion Dusttight		—	—	—	—	—	—	—	—			
Type 12K — Semi-Dusttight		✓	✓	✓	✓	—	✓	✓	—				

① For DC UPS application.

For inches / millimeters conversion, see Application Data section.

Molded Case Circuit Breakers

SELECTION / APPLICATION

Reference Guide

Thermal-Magnetic Trip Breakers

				General Purpose Breakers						
				PD6 ² , PXD6 ²	HPD6 ² , HPXD6 ²	CPD6 ²	RD6 ² , RXD6 ²	HRD6 ² , HRXD6 ²		
Page				6-49	6-49	6-49	6-52	6-52		
Ratings	AC	Poles		3	3	3	3	3		
		Amperes, Continuous		1200-1600	1200-1600	1200-1600	1600-2000	1600-2000		
		Volts 50/60 HZ		3-Pole	600	600	600	600		
		Interrupt Rating Symmetrical RMS Amperes	UL	240V	65,000	100,000	200,000	65,000	100,000	
				480V	50,000	65,000	100,000	50,000	65,000	
				600V	25,000	50,000	65,000	25,000	50,000	
			IEC 947-2 50/60HZ	220/240V	lcu	65,000	100,000	200,000	65,000	100,000
					lcs	33,000	50,000	100,000	33,000	50,000
				380/415V	lcu	40,000	65,000	100,000	40,000	65,000
					lcs	10,000	17,000	25,000	10,000	17,000
				500V	lcu	30,000	42,000	65,000	30,000	42,000
					lcs	8,000	21,000	17,000	8,000	21,000
		DC	2-Pole 250V DC Interrupting Ratings		30,000	30,000	30,000	30,000	30,000	
	3-Pole, 500V DC Interrupting Ratings ¹		25,000	50,000	50,000	25,000	50,000			
Dimensions in inches	Circuit breakers require Connect-all mounting block. Dimensions shown are for circuit breaker only.		Height	16.00	16.00	16.00	16.00	16.00		
			Width	9.00	9.00	9.00	9.00	9.00		
			Depth	6.19	6.19	6.19	6.19	6.19		
Overcurrent Devices	Thermal and Adjustable Magnetic Trip		✓	✓	✓	✓	✓			
	Molded Case Switch		✓	—	—	✓	—			
Accessories & Modifications	Undervoltage Trip		✓	✓	✓	✓	✓			
	Shunt Trip		✓	✓	✓	✓	✓			
	Auxiliary Switch		✓	✓	✓	✓	✓			
	Alarm Switch		✓	✓	✓	✓	✓			
	Mechanical Interlock		✓	✓	✓	✓	✓			
	Electric Motor Operator		✓	✓	✓	✓	✓			
	Fungus Proofing (ref. page 6-74)		—	✓	✓	✓	✓ ✓			
	Mounting Block (required)		✓	✓	✓	✓	✓			
Individual Enclosures	Type 1 – Indoor Surface		✓	✓	✓	✓	✓			
	Type 1 – Indoor, Flush		—	—	—	—	—			
	Type 3R – Outdoor-Rainproof		—	—	—	—	—			
	Type 7 – Flammable Gas Atmosphere		—	—	—	—	—			
	Type 9 – Combustion Dusttight		—	—	—	—	—			
	Type 5, 12 – Lint, Fine Dust, Oils, Coolants		—	—	—	—	—			
	Type 12K – Semi-Dusttight		—	—	—	—	—			

9

CIRCUIT
BREAKERS

For inches / millimeters conversion, see Application Data section.

¹ For DC UPS application.

² Requires Connect-all mounting assembly. Dimensions shown are for circuit breaker only.

Molded Case Circuit Breakers

SELECTION / APPLICATION

Reference Guide

Electronic Trip Breakers

				Solid State Trip Circuit Breakers									
Page				SJD6	SHJD6	SCJD6	SLD6	SHLD6	SCLD6	SMD6	SHMD6	SCMD6	
				6-32	6-32	6-32	6-36	6-36	6-36	6-43	6-43	6-43	
Ratings	AC	Poles		3	3	3	3	3	3	3	3	3	
		Amperes, Continuous		200-400	200-400	200-400	300-600	300-600	300-600	600-800	600-800	600-800	
		Volts 50/60 HZ	3-Pole	600	600	600	600	600	600	600	600	600	
		Interrupt Rating Symmetrical RMS Amperes	UL	240V	65,000	100,000	200,000	65,000	100,000	200,000	65,000	100,000	200,000
				480V	35,000	65,000	150,000	35,000	65,000	150,000	50,000	65,000	100,000
		600V	25,000	35,000	100,000	25,000	35,000	100,000	25,000	50,000	65,000		
Dimensions in inches	Height		11.00	11.00	17.86	11.0	11.00	17.86	10.00	16.00	16.00		
	Width	3-Pole	7.50	7.50	7.50	7.50	7.50	7.50	9.00	9.00	9.00		
	Depth		4.00	4.00	4.00	4.00	4.00	4.00	6.19	6.19	6.19		
Overcurrent Devices	Solid State Trip		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Accessories & Modifications	Undervoltage Trip		✓	✓	✓	✓	—	✓	✓	✓	✓		
	Shunt Trip		✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Auxiliary Switch		✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Alarm Switch		✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Mechanical Interlock		—	—	—	—	—	—	✓	✓	✓		
	Rear Connection Studs		✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Electric Motor Operator		✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Plug-In Mounting Assembly		✓	✓	✓	✓	✓	✓	✓	✓	✓		
Fungus Proofing (ref. page 6-74)			✓	✓	✓	✓	✓	✓	✓	✓			
Individual Enclosures	Type 1 — Indoor Surface		✓	✓	—	✓	✓	—	✓	✓	✓		
	Type 1 — Indoor, Flush		—	—	—	—	—	—	—	—	—		
	Type 3R — Outdoor-Rainproof		✓	✓	—	✓	✓	—	✓	✓	✓		
	Type 7 — Flammable Gas Atmosphere		✓	✓	—	✓	✓	—	—	—	—		
	Type 9 — Combustion Dusttight		✓	✓	—	✓	✓	—	—	—	—		
	Type 5, 12 — Lint, Fine Dust, Oils, Coolants		✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Type 12K — Semi-Dusttight		✓	✓	—	✓	✓	—	✓	✓	—		

Molded Case Circuit Breakers

SELECTION / APPLICATION

Reference Guide

Electronic Trip Breakers

Page	Solid State Trip Circuit Breakers										Insulated Case Circuit Breakers					
	SND6	SHND6	SCND6	SPD6 ^①	SHPD6 ^①	STD6 ^②	SHTD6 ^②	SHHTD6 ^②	SBA ^②	SBS ^②	SBH ^②					
	6-47	6-47	6-47	6-50	6-50	6-54	6-54	6-54	6-65	6-65	6-65					
	3	3	3	3	3	3	3	3	3	3	3					
	800-1200	800-1200	800-1200	1200-1600	1200-1600	2000-3200	2000-3200	2000-3200	400-2000	400-5000	2000-5000					
	Amperes, Continuous															
	Volts 50/60HZ	3-Pole	600	600	600	600	600	600	600	600	600					
Ratings	AC	Interrupt Rating Symmetrical RMS Amperes	UL	240V	65,000	100,000	200,000	65,000	100,000	85,000	150,000	200,000	65,000	150,000	200,000	
				480V	50,000	65,000	100,000	50,000	65,000	65,000	100,000	150,000	65,000	100,000	150,000	
				600V	25,000	50,000	65,000	25,000	50,000	50,000	85,000	100,000	50,000	85,000	100,000	
				EC 947-2 50/60HZ	380/415V	Icu	—	—	—	—	—	—	—	—	100	—
					Ics	—	—	—	—	—	—	—	—	—	100	—
				690V	Icu	—	—	—	—	—	—	—	—	—	65	—
			Ics		—	—	—	—	—	—	—	—	—	65	—	
			Dimensions in inches	Height	16.00	16.00	16.00	16.00	16.00	27.5	27.5	27.5	—	—	—	
Width	9.00	9.00		9.00	9.00	9.00	14.12	14.12	14.12	—	—	—				
Depth	6.19	6.19		6.19	6.19	6.19	11.38	11.38	11.38	—	—	—				
Overcurrent Devices	Solid State Trip	√	√	√	√	√	√	√	√	√	√	√				
	Undervoltage Trip	√	√	√	√	√	√	√	√	√	√	√				
Accessories & Modifications	Shunt Trip	√	√	√	√	√	√	√	√	√	√	√				
	Auxiliary Switch	√	√	√	√	√	√	√	√	√	√	√				
	Alarm Switch	√	√	√	√	√	√	√	√	√	√	√				
	Mechanical Interlock	√	√	√	√	—	√	√	√	√	√	√				
	Rear Connection Studs	√	√	√	—	√	√	√	√	√	√	√				
	Electric Motor Operator	√	√	√	√	—	—	—	—	—	—	—				
	Plug-In Mounting Assembly	—	—	—	—	√	—	—	—	—	—	—				
	Stored Energy Mechanism	—	—	—	—	—	—	—	—	√	√	√				
	Drawout Construction	—	—	—	—	—	—	—	—	√	√	√				
	Fungus Proofing (ref. page 6-74)	√	√	√	√	√	√	√	√	√	√	√				
	Individual Enclosures	Type 1 – Indoor Surface	√	√	√	√	—	—	—	—	—	—	—			
Type 1 – Indoor, Flush		—	—	—	—	—	—	—	—	—	—	—				
Type 3R – Outdoor-Rainproof		√	—	√	—	—	—	—	—	—	—	—				
Type 7 – Flammable Gas Atmosphere		—	—	—	—	—	—	—	—	—	—	—				
Type 9 – Combustion Dusttight		—	—	—	—	—	—	—	—	—	—	—				
Type 5, 12 – Lint, Fine Dust, Oils, Coolants		√	√	√	—	—	—	—	—	—	—	—				
Type 12K – Semi-Dusttight		√	√	—	—	—	—	—	—	—	—	—				

9
CIRCUIT BREAKERS

For inches / millimeters conversion, see Application Data section.

① Requires connect-all mounting block assembly. Dimensions shown are for circuit breaker.

② Breaker has rating plugs which can be changed within each frame rating.