

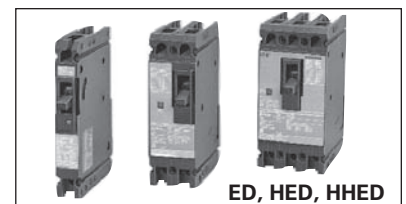
# Molded Case Circuit Breakers

## Reference Guide

## Selection/Application

### Thermal-Magnetic Trip Breakers

				General Purpose Breakers									
				NEG	HEG	ED2	ED4	ED6	HED4	HHED6	CED6		
Ratings	AC	Poles		1, 2, 3, 4	1, 2, 3, 4	1, 2, 3	1, 2, 3	1 <sup>ⓐ</sup> , 2, 3	1, 2, 3	2, 3	2, 3		
		Amperes, Continuous		15-125	15-125	15-100	15-125	15-125	15-125	15-125	15-125	15-125	
		Volts 50/60HZ		1-Pole	347 <sup>ⓑ</sup>	347 <sup>ⓑ</sup>	120	277	347	277	—	—	
				2-Pole	600/347	600/347	240	480	600	480	600	600	
				3-Pole									
				UL	120V	—	—	10,000	—	—	100,000	—	—
					240V	85,000	100,000	10,000	65,000	65,000	100,000 <sup>ⓐ</sup>	100,000	200,000
					277V	—	—	—	22,000 <sup>ⓑ</sup>	—	65,000 <sup>ⓑ</sup>	—	—
					347V	—	—	—	—	30,000	—	—	—
					480V	35,000	65,000	—	18,000	25,000	42,000	65,000	200,000
			600V		22,000 <sup>ⓐ</sup>	25,000 <sup>ⓐ</sup>	—	—	18,000	—	18,000	100,000	
			Interrupt Rating Symmetrical RMS Amperes	220/240V	lcu	85,000	100,000	—	—	65,000	—	—	
					lcs	42,000	50,000	—	—	17,000	—	—	—
				380/415V	lcu	40,000	70,000	—	—	35,000	—	—	
					lcs	20,000	35,000	—	—	9,000	—	—	
		500V		lcu	—	—	—	—	18,000	—	—		
				lcs	—	—	—	—	5,000	—	—		
		DC	2-Pole, 250V DC Interrupting Ratings		35,000	42,000	5,000	30,000	30,000	30,000	—	30,000	
			3-Pole, 500V DC Interrupting Ratings <sup>ⓐ</sup>		—	—	—	—	18,000	—	—	50,000	
Dimensions in inches	Height			5.5	5.5	6.34	6.34	6.34	6.34	6.58	9.26		
	Width	1-Pole		1.00	1.00	1.00	1.00	1.00	1.00	—	—		
		2-Pole		2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00		
		3-Pole		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		
Depth		4-Pole		4.00	4.00	—	—	—	—	—			
				3.00	3.00	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 (3-4 Pole Only)			✓	✓	✓	✓	✓	✓	✓	✓		
Fungus Proofing (ref. page 7-91)			✓	✓	✓	✓	✓	✓	✓	✓			
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			—	—	✓	✓	✓	✓	✓	✓			



For inches / millimeters conversion, see Application Data section.

ⓐ 1-pole only.

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

ⓐ For DC UPS system application.

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

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

ⓐ NEG and HEG breakers are rated at 600/347V.

ⓐ 1-pole NEG breaker is rated 85K @ 240V, 35K @ 277V and 22K @ 347V. 1-pole HEG breaker is rated 100K @ 240V, 65K @ 277V and 25K @ 347V.