



Series	Series 16	Series 16	Series 16	Series 17	Series 18	Series 19	Series 32
Models	1601, 1611, 1681	1600, 1604, 1610, 1680	1648	171, 174, 175	1800, 1801, 1810, 1811	19A, 19M	321, 322, 323
Features	Low Amp. Robust design. Push-to-Reset, supplementary protector. Various mounting styles and termination options available. UL1500, Ignition Protected. Qualified for Resistive & Motor applications. Cadmium free contacts.	Mid Amp. Robust Design. Push-to-Reset, supplementary protector. Various mounting styles and termination options available. UL1500 Ignition Protected. Qualified for Resistive & motor applications. Cadmium free contacts.	Hi Amp. Robust Design. Push-to-Reset, supplementary protector. Various mounting styles with #10-32 screw terminals standard. UL1500 Ignition Protected. Cadmium free contacts.	Hi-Amp, dust & waterproof ignition protected, type I III & III (PTT) circuit breaker. Standard designs offered thru 300A in panel and surface mount versions. Options include new easy access 1/4" & 3/8" stainless terminals & hardware. Patented. LED TripID™ accessory.	Weatherproof, ignition proof, available as a Push-to-Reset protector. Designed for harsh environments as tested to ABYC, USCG, SAE, UL & Mil Stds requirements. UL1500 Ignition Protected.	Hi-Amp, superior dust & waterproof rating, Ignition protected, Type I & Type III circuit breaker. Fit, form & function to traditional offerings, with expanded ratings through 200 Amps. Options include mounting plate to fit competitive 175 - 200A panel cutout stainless hardware, and patent pending TripID™.	Smallest Push-to-Reset breaker available in 3 - 40 Amps. Various mounting and termination options. Ignition Protected. Cadmium Free contacts.
Current Ratings	0.5 - 4.5 Amperes	5 - 35 Amperes	40 - 70 Amperes	25 - 300 Amperes	10 - 70 Amperes	25 - 200 Amperes	3 - 50 Amperes
Voltage Ratings	250VAC / 50VDC	250VAC / 50VDC (5 - 25A) 250VAC / 32VDC (26 - 35A)	250VAC / 50VDC	48VDC (25 - 150A) 30VDC (175 - 200A) 14VDC (225 - 300A)	120VAC / 32VDC	30VDC	14VDC (Type I & II) 28VDC (Type III)
Calibration @ 25°C (percent of rating)	=< 1A 100% Hold, 145% Trip > 1A 100% Hold, 135% Trip	100% Hold, 135% Trip	100% Hold, 140% Trip	100% Hold, 135% Trip	100% Hold, 135% trip (2-40A, Series 1800 & 1801) 110% Hold, 143% Trip (12.5-70A, Series 1810 & 1811)	100% Hold, 135% Trip	<5A 100% Hold, 150% Trip =>5A 100% Hold, 135% Trip
Overload Trip Time (in seconds @ 25°C)	200%	10 - 32 sec	4 - 15 sec (5-7.5A) 5 - 30 sec (8-35A)	5 - 30 sec	10 - 40 sec	4 - 150 sec (2-40A) 6 - 70 sec (12.5-60A)	10 - 40 sec
	500%	3 - 4.7 sec	0.5 - 1.8 sec (5-7.5A) 0.5 - 2.8 sec (8-35A)	0.5 sec - 2.8 sec	0.4 - 5 sec	1.2 - 20 sec (2-10A)*** 0.6 - 5 sec (12.5-60A)***	0.4 - 5 sec
	1000%	2.3 - 4.2 sec**	0.16 - 0.66 sec (5-7.5A) 0.15 - 0.78 sec (8-35A)	0.15 - 0.78 sec	0.09 - 1.2 sec	0.3 - 2.5 sec (2-40A) 0.1 - 0.7 sec (12.5-60A)	0.09 - 1.2 sec
Short Circuit Interruption	Per UL1077 1,000A @ 250VAC / 50VDC 2,000A @ 120VAC MP Performance Certified 3,000A @ 32VDC	Per UL1077 1,000A @ 250VAC / 50VDC 2,000A @ 120VAC MP Performance Certified 3,000A @ 32VDC	Per UL1077 1,000A @ 250VAC / 50VDC 2,000A @ 120VAC MP Performance Certified 3,000A @ 32VDC	Per SAE J553, J1625, ABYC-E11 3,000A @ 30VDC, Type I (25-150A) 1,500A @ 30VDC, Type I (175-200A) 2,500A @ 14VDC, Type I (225-300A) 2,500A @ 14VDC, Type III (25-200A) 1,500A @ 48VDC, Type III (25-150A)	Per UL1077 3,000A @ 120VAC / 32VDC (Series 1800, 1801, 1810, 1811) 5,000A @ 32VDC (Series 1810, 1811)	Per SAE J553, J1625, ABYC-E11 2,500A @ 30VDC, Type I (25-200A) 2,500A @ 14VDC, Type I (25-150A) 1,500A @ 28VDC, Type III (25-150A) 2,500A @ 30VDC, Type III (175-200A)	Varies by current and voltage. See datasheet
Regulatory Approvals	UL, CSA, CCC, VDE (IEC)	UL, CSA, CCC, VDE (IEC)	UL, CSA, CCC	ABYC-E11, IP67, Mil-STD-202, SAE J553, J1171, J1625	UL1500	ABYC-E11, IP67, IP69K, Mil-STD-202, SAE J553, J1171, J1625	SAE J553*, J1171*
Motor Load Rated	Yes	Yes	*	N/A	N/A	N/A	N/A
Notes	Vibration: 8g Shock: 30g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH **Results at 600%	Vibration: 8g Shock: 30g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH (applies to Model 1648 also)	55A 32VAC UL CSA CCC 55A 250VAC CCC 55A 250VAC MP Certified 60 - 70A 250VAC / 32VDCMP certified & CCC (See Model 1600 notes)	Vibration: 10g Shock: 100g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH Ingress Protection: IP67	Vibration: 10g Shock: 100g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH ***Results at 400%	Vibration: 10g Shock: 100g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH Ingress protection: IP69K	Corrosion: 96hr Salt Spray Humidity: 240hr @ 95% RH
Dimensions (Inches)							

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Series	Series 07	Series 07	Series 24	Series 02	Series 12	Series 14	Series 15	
Models	752	762, 772	2410, 2411, 2420, 2421	252, 600, 601	1221, 1223, 1224, 1227	1400, 1430 1450, 1480, 1490	1500, 1530, 1560, 1580	
Features	Switchable, Trip Free "Double Break" mechanism, with High Interrupt Capacity. The 752 Push-Pull variants are the smallest UL489 listed molded case circuit breakers available. Suitable for Branch Circuit Protection. Cadmium free contacts.	Switchable Trip Free "double Break" operations gives the Models 762 & 772 up to a 5,000 Amp Interrupt Capacity in a small package size. For 5 - 30 Amps, 0.250" quick connect terminals standard. In 30 - 40 Amps, #10-32 screw terminals are standard. Cadmium free contacts.	Compact Snap-in panel mount, 1 & 2 pole, Power "on/Off" switch with Trip Free Circuit Protection. Options include actuator markings, illuminations, guards, and a splash protector. Switch only versions are available in 1 pole devices, or in one or both poles of a 2 pole device.	Trip Free "Double Break" mechanism with High Interrupt capacity. Suitable for branch circuit protection. 0.250" quick connect terminals are standard and #10-32screw terminals at 30 Amps. Cadmium free contacts.	Most economical & compact design, cycling trip free, Push-to-Reset supplementary protector offered in a variety of mounting and termination options.	Compact, economical, Push-to-Reset supplementary protector. Various mounting styles and termination options available. UL1500 ignition protected. Qualified for resistive & motor applications.	Smallest Push-to-Reset breaker available in 3 - 40 Amps. Various mounting and termination options. Ignition Protected. Cadmium Free contacts.	
Current Ratings	15 - 20 Amperes	Model 762: 5 - 30 Amperes Model 772: 30 - 40 Amperes	0.1 - 30 Amperes	5 - 30 Amperes	3 - 20 Amperes	3 - 30 Amperes	3 - 40 Amperes	
Voltage Ratings	120VAC	277VAC (5-9A) 120VAC (10-30A) 277VAC / 32VDC (30-40A)	250VAC / 50VDC	120VAC / 277VAC / 32VDC	120 / 250VAC / 50VDC	250VAC / 50VDC	250VAC / 50VDC	
Calibration @ 25°C (percent of rating)	100% Hold, 135% Trip	100% Hold, 135% Trip	100% Hold, 135% Trip	100% Hold, 135% Trip	100% Hold, 150% Trip	100% Hold, 135% Trip	100% Hold, 150% Trip (3-4A) 100% Hold, 135% Trip (5-40A)	
Overload Trip Time (in seconds @ 25°C)	200%	5-30 sec	5-20 sec (5-7A) 5-30 sec (8-40A)	8-40 sec	5-20 sec (5-7A) 5-30 sec (8-40A)	4-40 sec	4-40 sec	5-40 sec (3-4A & 25-40A) 5-30sec (5-20A)
	500%	0.5-3.3 sec	0.5 - 1.9 sec (5-7A) 0.5 - 3.3 sec (8-35A)	1-3 sec	0.5 - 1.9 sec (5-7A) 0.5 - 3.3 sec (8-35A)	0.4-2.8 sec	0.4-2.8 sec	0.6-3.3 sec (3-40A)
	1000%	0.15-0.9 sec	0.17 - 0.53 sec (5-7.5A) 0.15 - 0.9 sec (8-35A)	0.2-1 sec	0.17 - 0.53 sec (5-7.5A) 0.15 - 0.9 sec (8-35A)	0.12-0.7 sec	0.12-0.4 sec	0.15-0.9 sec (3-40A)
Short Circuit Interruption	Per UL489 5,000A @ 120VAC	Per UL1077 5,000A @ 120VAC	Per UL1077 5,000A @ 250VAC 1,000 @ 50VDC	Per UL489 5,000 @ 120VAC  Per UL1077 5,000A @ 277VAC / 32VDC	Per UL1077 1,000A @ 250VAC 1,000A @ 50VDC	Per UL1077 1,000A @ 250VAC / 50VDC 3,000A @ 32VDC	Per UL1077 1,000A @ 250VAC 1,000A @ 50VDC 2,500A @ 32VDC	
Regulatory Approvals	UL, CSA, CCC, VDE (IEC)	UL, CSA, CCC, VDE (IEC)	UL, CSA, CCC, VDE (IEC)	UL, CSA, CCC, VDE (IEC)	UL, cUL, CSA, CCC, VDE (IEC)	UL, cUL, CCC, VDE (IEC)	UL, cUL, CSA, CCC*, VDE (IEC)	
Motor Load Rated	N/A	Yes	Yes	Yes (600, 601)	N/A	Yes	Yes	
Notes	Vibration: 8g Shock: 25g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH	Vibration: 8g Shock: 25g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH	Vibration: 8g Shock: 30g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH UL1500 Ignition Protected	Vibration: 8g Shock: 25g Corrosion: 96hr Salt Spray Humidity: 240hr at 95% RH			Vibration: 8g Shock: 30g Corrosion: 96hr Salt Spray	
Dimensions (Inches)								

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