







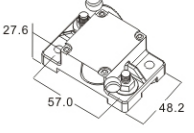
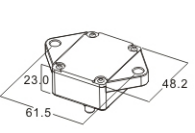
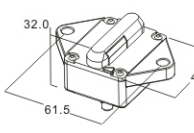
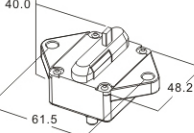
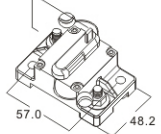
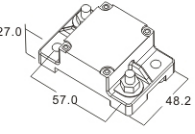
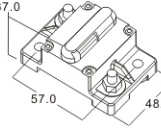
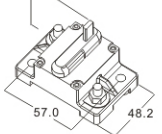


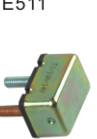

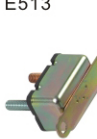









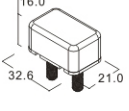
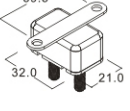
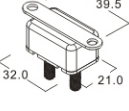
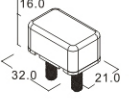
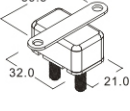
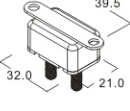
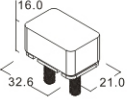
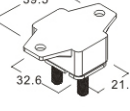
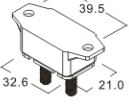
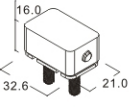
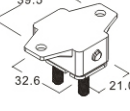
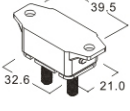
Hi-Amp Circuit Breakers

Cross to 18X




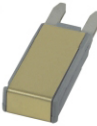


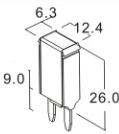
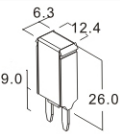
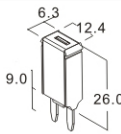
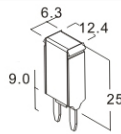
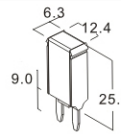
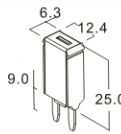
Image	E91 	E94 	E95 	E96 
Mouting	Wide Surface Mount		Panel Mount	
Function Type	Thermal Trip-free,Cycling		Thermal Trip,Manual Reset	Thermal Trip with Manual On-Off
Image	E93 	E97 	E98 	E99 
Mouting	Wide Surface Mount		Surface Mount	
Function Type	Thermal Trip,Manual On-Off		Thermal Trip-free,Cycling	Thermal Trip with Manual On-Off
Number of Poles	Single Pole , Normal Closed		Single Pole , Normal Closed	
Maximun Current &Voltage Ratings	20-200A@ 48Vdc		20-200A@ 30Vdc	20-200A@ 48Vdc
Calibrarion@25°C	100% Hold , 135% Trip (percent of rating)			
Maximun Interrupting Capacity	3,000A 30Vdc			
Termination	3/8" - 16 Studs; 1/4" - 28 Studs		1/4" - 28 Studs	
Compliances	SAE J1625;ABYC E-11;CE;SAE J1117(Ignition Protected);IP67			
Dimensions (mm)				
				





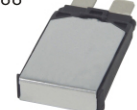

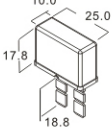
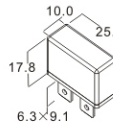
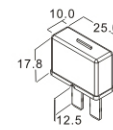
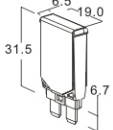
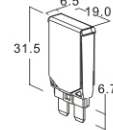
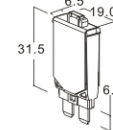
Stud Type Circuit Breakers

Cross to 12X

	Automatic Reset (Type I)			Modified Reset (Type II)		
Image	E511 	E512 	E513 	E521 	E522 	E523 
Metal Cabinet				Manual Reset (Type III)		
Plastic Cabinet	E516 	E517 	E518 	E536 	E537 	E538 
Function Type	Thermal Trip-free,Cycling			Thermal Trip , Modified Reset (Type II) , Manual Reset (Type III)		
Number of Poles	Single Pole , Normal Closed					
Current &Voltage Ratings	5-50A , 12-28Vdc					
Calibrarion@25°C	100% Hold , 135% Trip (percent of rating)					
Interrupting Capacity	Branch Circuit Protection: 2,500A @12Vdc					
Termination	#10 - 32 Thread and Quick-Connect options available					
Mouting	Stud Mount or Bracket Mount					
Compliances	SAE J553;SAE J1171(Ignition Protected);					
Dimensions (mm)						
						

Automotive Circuit Breakers


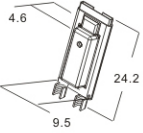
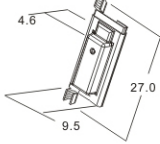
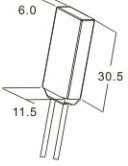
Cross to MINI 21X						
Image						
Reset Type	T1 ,Auto Reset	T2 ,Modified	T3 , Manual	T1 ,Auto Reset	T2 ,Modified	T3 , Manual
Calibrarion@25°C	100% Hold , 135% Trip (percent of rating)					
Maximun Interrupting Capacity	150A @ 14Vdc (5-10A versions); 225A @ 14Vdc (15A version); 300A @ 14Vdc (20A version); 450A @ 14Vdc (25-30A versions)					
Termination	Compatible with 280 Type fuse blocks using 0.32in. (8.1mm) centerline spacing					
Marking	Cover is color-coded to amperage ratings					
Maximun Current & Voltage Ratings	5-30A@ 14Vdc	5-30A@ 28Vdc		5-30A@ 14Vdc		5-30A@ 28Vdc
Compliances	SAE J553					
Dimensions(mm)						

Cross to UCB / FCB / CBB	Cross to ATC					
Image						
Reset Type	T1 ,Auto Reset	T2 ,Modified	T3 , Manual	T1 ,Auto Reset	T2 ,Modified	T3 , Manual
Calibrarion@25°C	100% Hold , 135% Trip (percent of rating)					
Maximun Interrupting Capacity	150A @ 14Vdc (5-10A versions); 225A @ 14Vdc (15A version); 300A @ 14Vdc (20A version); 450A @ 14Vdc (25-30A versions)					
Termination	Compatible with 280 Type fuse blocks using 0.32in. (8.1mm) centerline spacing					
Maximun Current & Voltage Ratings	5-30A@ 14Vdc	5-30A@ 28Vdc		5-30A@ 14Vdc		5-30A@ 28Vdc
Compliances	SAE J553,SAE J1171(Ignition Protected);					
Dimensions(mm)						




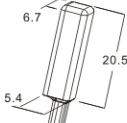
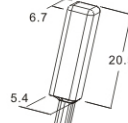
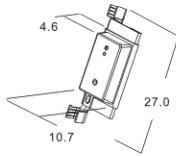
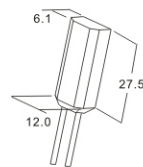
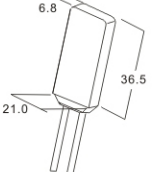
Cross to ATC(227)					
Image					Dimensions(mm) 
Image					
Reset Type	T3 , Manual				
Number of Poles	Single Pole , Normal Closed				
Calibrarion@25°C	100% Hold , 135% Trip (percent of rating)				
Maximun Interrupting Capacity	2,000A @ 28Vdc				
Termination	5.2mm wide blades compatible with ATC type fuse blocks				
Marking	Cover is color-coded to amperage ratings				
Maximun Current & Voltage Ratings	5-30A@ 28Vdc				
Compliances	SAE J553,SAE J1171(Ignition Protected);				

Thermostat, Thermal Protector, Motor protector






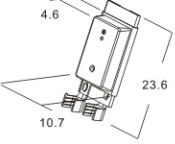
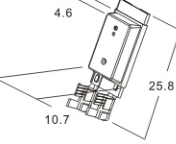
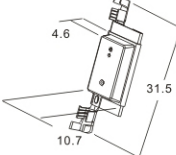
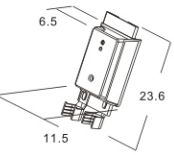
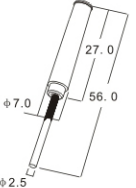
Cross to A1/A2/AA1/AA2

Image					
Contact Type	Normally Closed or Normally Open				
Contact Ratings	2A @ 120Vac & 24Vdc		5A @ 120Vac & 24Vdc		same as VA1 or VA2
Calibration Range(Off)	5°C to 200°C				
Off -ON Tolerance	Less than 2°C				
Tolerance	±3°C, ±5°C, ±8°C				
Certifications	UL&c-UL130/873 100K cycles, RoHS, REACH				
Dimensions(mm)					

Cross to JA/B/C/US-63X/MHX





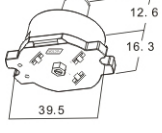
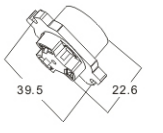
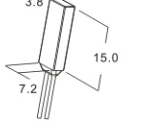
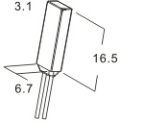
Image					
Contact Type	Normally Closed or Normally Open				
Contact Ratings	6A @ 120Vac & 8A @ 24Vdc		6A @ 120Vac & 5A @ 24Vdc		
Calibration Range(Off)	5°C to 200°C		35°C to 175°C		
Off -ON Tolerance	Less than 5°C		Less than 10°C		
Tolerance	±3°C, ±5°C, ±8°C				
Certifications	UL&c-UL873 100K cycles, RoHS, REACH		UL&c-UL873 100K cycles, VDE, TUV, CQC, CB, PSE, RoHS, REACH		
Dimensions(mm)					

Cross to JC/17AM/7AM/TWB/TPB






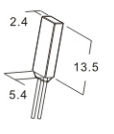
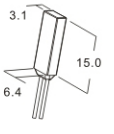
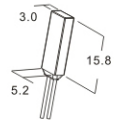
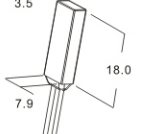
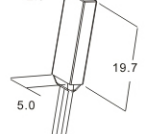
Image					
Contact Type	Normally Closed, Self-hold				
Contact Ratings	16A @ 250Vac & 20A @ 120Vac & 18A @ 24Vdc				10A @ 250Vac & 10A @ 125Vac
Calibration Range(Off)	35°C to 175°C				
Off -ON Tolerance	More than 5°C				
Tolerance	±3°C, ±5°C				
Certifications	UL&c-UL873 100K cycles, VDE, TUV, CQC, CB, RoHS, REACH				
Dimensions(mm)					

Thermal Protector, Motor Protector






Cross to MEP/MRP/MWH/MYH/9700/TB02 mini type

Image					
Contact Type	Normally Closed			Normally Closed or Normally Open	
Contact Ratings	34A @ 125Vac & 17A @ 250Vac		37A @ 220Vac & 28A @ 440Vac	12A @ 120Vac & 8A @ 240Vac	
Calibration Range(Off)	90°C to 150°C			35°C to 160°C	
Off -ON Tolerance	More than 15°C			More or Less than 15°C	
Tolerance	±5°C, ±8°C			±3°C, ±5°C	
Certifications	UL&c-UL, RoHS, REACH				
Dimensions(mm)					

Cross to 9700 / ST-22

Image					
Contact Type	Normally Closed or Normally Open				
Contact Ratings	8A @ 120Vac & 5A @ 240Vac				
Calibration Range(Off)	35°C to 160°C				
Off -ON Tolerance	More or Less than 15°C				
Tolerance	±3°C, ±5°C				
Certifications	UL&c-UL, RoHS, REACH				
Dimensions(mm)					

Cross to 6AP / 3MP

Image					
Contact Type	Normally Closed				
Contact Ratings	30A @ 250Vac & 30A @ 125Vac				
Calibration Range(Off)	35°C to 175°C				
Off -ON Tolerance	More than 5°C				
Tolerance	±3°C, ±5°C				
Certifications	UL&c-UL, ENEC, RoHS, REACH				
Dimensions(mm)	