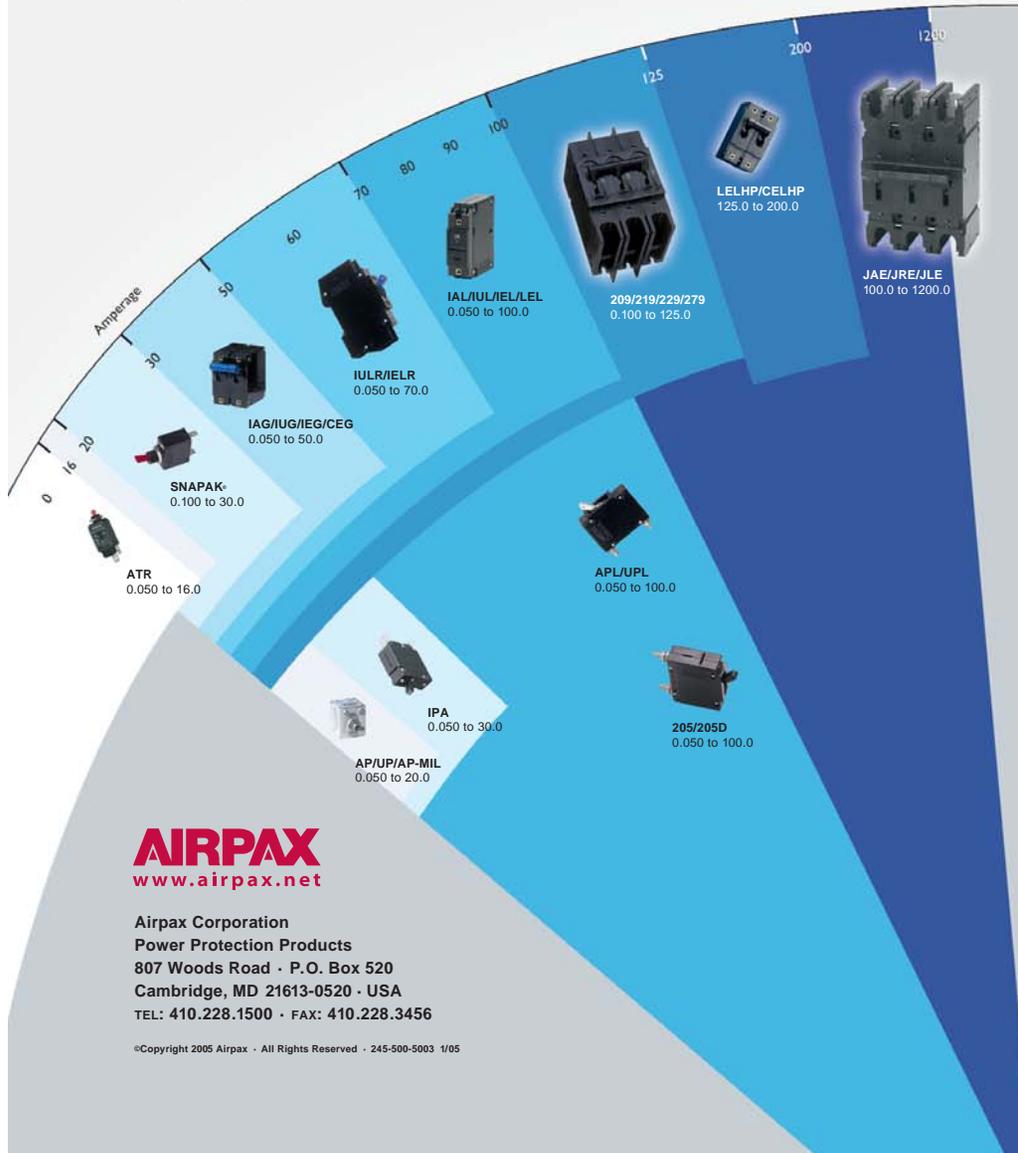


AIRPAX

Quick Guide to Overcurrent Protection



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AIRPAX

Power Protection Products
Quick Product Guide



Airpax Product Guide

ATR



General Description <ul style="list-style-type: none"> Miniature thermal circuit breaker for equipment Snap-acting trip mechanism increases operational life Push-to-Reset actuation Choice of several mounting configurations 	Max Poles <ul style="list-style-type: none"> 1 	Current and Voltage Ratings <ul style="list-style-type: none"> 0.50 to 16 amps at 240Vac, 50/60 Hz 0.50 to 16 amps at 32Vdc 0.50 to 12 amps at 24Vdc (VDE) 	Interrupting Capacity <ul style="list-style-type: none"> 8 times nominal rating < 6 amps 60 amps max. >= 6 amps 	Approvals* <ul style="list-style-type: none"> UL Recognized CSA Certified VDE Approved CE Compliant CCC Approved <p>* Consult factory for conditions of acceptability.</p>
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SNAPAK®



General Description <ul style="list-style-type: none"> Compact magnetic protection Paddle, baton, push-pull, push-to-reset and rocker actuation in choice of colors Patented snap action mechanism increases operational life Illuminated rocker handle with choice of colors and markings Aesthetically pleasing for front panel mounting 	Max Poles <ul style="list-style-type: none"> 2 	Current and Voltage Ratings <ul style="list-style-type: none"> 0.10 to 7.5 amps at 50Vdc and 250Vac 0.10 to 30 amps at 32Vdc 0.10 to 30 amps at 120Vdc 0.10 to 25 amps at 120/240Vac (two poles) 0.10 to 20 amps at 250Vac (50/60Hz at 500AIC) 0.10 to 20 amps at 65Vdc (two poles) 500AIC 	Interrupting Capacity <ul style="list-style-type: none"> 1000 amps 	Approvals* <ul style="list-style-type: none"> UL Recognized CSA Certified VDE Approved CE Compliant CCC Approved <p>* Consult factory for conditions of acceptability.</p>
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AP/UP, AP/MIL



General Description <ul style="list-style-type: none"> QPL to MIL-PRF-39019 Sealed protection Can withstand 100G shock repeatedly Tolerates 10G vibration from 10 to 2000Hz under full load Trip point unaffected by ambient temperatures between -40°C and +100°C Ideal for Class 1, Div. 2 groups A, B, C, D hazardous locations 	Max Poles <ul style="list-style-type: none"> 3 	Current & Voltage Ratings <p>AP Ratings</p> <ul style="list-style-type: none"> .050 to 20 amps, 240Vac, 50Vdc <p>UP Ratings (single pole only)</p> <ul style="list-style-type: none"> .050 to 20 amps, 50Vdc .050 to 15 amps, 120Vac .050 to 7.5 amps, 240Vac 	Interrupting Capacity <p>AP Ratings</p> <ul style="list-style-type: none"> 500 amps, 50Vdc, 120Vac 300 amps, 240Vac <p>UP Ratings</p> <ul style="list-style-type: none"> 1000 amps, 50Vdc, 240Vac 	Approvals* <ul style="list-style-type: none"> QPL to MIL-PRF-39019 UL Recognized (UP style only) FM Approved (UP style only) <p>* Consult factory for conditions of acceptability.</p>
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IPA/CPA



General Description <ul style="list-style-type: none"> Compact magnetic protection Quick-connect, screw, PC board mount terminals available Auxiliary switch options Multi-pole versions with multi or single handle 	Max Poles <ul style="list-style-type: none"> 3 	Current & Voltage Ratings <ul style="list-style-type: none"> 0.05-30 amps, 65Vdc 0.05-20 amps, 80Vdc (300 AIC) 0.05-25 amps, 250Vac, 50/60Hz 25.1-30 amps, 240Vac, 50/60Hz 0.10-15 amps, 250Vac, 400Hz 0.05-25 amps, 65Vdc (TUV) 0.05-25 amps, 250Vac, 50/60Hz (TUV) 0.05-15 amps, 400Hz (TUV) 	Interrupting Capacity <ul style="list-style-type: none"> 1000 amps 	Approvals* <ul style="list-style-type: none"> UL Recognized CUR Recognized TUV Certified CE Compliant UL 489A Listed (CPA) CCC Approved <p>* Consult factory for conditions of acceptability.</p>
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IAG/IUG/IEG/CEG



General Description <ul style="list-style-type: none"> IEG versions meet IEC spacing requirements for installation in equipment that must comply with IEC 601 and 950, and VDE 0730, 0804, and 0805 Multi-pole versions with multi or single handle Option auxiliary switch Snap-in mounting option Mid-trip handle option Dual frequency option 	Max Poles <ul style="list-style-type: none"> 6 	Current and Voltage Ratings <ul style="list-style-type: none"> .050 - 50 amps, 80Vdc .050 - 50 amps, 240Vac, 50/60Hz .050 - 30 amps, 277Vac, 50/60Hz .050 - 30 amps, 250Vac, 400Hz 	Interrupting Capacity <ul style="list-style-type: none"> 5000 amps, 240Vac, 50/60Hz 1500 amps, 250Vac, 400Hz 7500 amps, 80Vdc (IEG) 5000 amps, 80Vdc (CEG) 2000 amps, 250Vac, 50/60Hz (VDE) 4000 amps, 80Vdc (VDE) 	Approvals* <ul style="list-style-type: none"> UL 489A Listed (CEG) UL Recognized CSA Certified VDE Approved (IEG, CEG) UL 1500 Certified CE Compliant CCC Approved <p>* Consult factory for conditions of acceptability.</p>
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APL/ULP



General Description <ul style="list-style-type: none"> Circuit protection combines with ON-OFF switching Multi-pole assemblies available with a mix of current ratings, delays and configurations QPL to MIL-PRF-55629 	Max Poles <ul style="list-style-type: none"> 9 	Current & Voltage Ratings <ul style="list-style-type: none"> .050 - 20 amps, 277Vac .050 - 50 amps, 250Vac .050 - 100 amps, 65Vdc 	Interrupting Capacity <ul style="list-style-type: none"> 5000 amps, 65Vdc (50 amp max. rating) 5000 amps, 250Vac (50 amp max. rating) 5000 amps, 277Vac (20 amp max. rating) 	Approvals* <ul style="list-style-type: none"> UL Recognized CSA Certified QPL to MIL-PRF-55629 CE Compliant <p>* Consult factory for conditions of acceptability.</p>
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205/295/205D



General Description <ul style="list-style-type: none"> Dust proof enclosure Tongue and groove construction provides overlapping closure Barrier styles available for multi-pole units Ideal for harsh environments 	Max Poles <ul style="list-style-type: none"> 9 	Current & Voltage Ratings <ul style="list-style-type: none"> .050 - 30 amps, 277/480Vac .050 - 60 amps, 250Vac, 65Vdc .050 - 100 amps, 65Vdc 	Interrupting Capacity <ul style="list-style-type: none"> 5000 amps, 250Vac, 65Vdc 3000 amps, 65Vdc 1500 amps, 277/480Vac (30 amp max.) 5000 amps, 277/480Vac with 125 amp series fuse 	Approvals* <ul style="list-style-type: none"> UL Recognized CSA Certified CE Compliant <p>* Consult factory for conditions of acceptability.</p>
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IAL/UL/IEL



General Description <ul style="list-style-type: none"> IEL versions meet IEC spacing requirements for installation in equipment that must comply with IEC 601 and 950 and VDE 0730, 0804, and 0805 Multi-pole versions with multi or single handle Option auxiliary switch Snap-in mounting option Mid-trip handle option Dual frequency option 	Max Poles <ul style="list-style-type: none"> 6 	Current and Voltage Ratings <ul style="list-style-type: none"> .050-100 amps, 65Vdc .050 - 70 amps, 80Vdc .050 - 70 amps, 240Vac, 50/60Hz .050 - 50 amps, 277Vac, 50/60Hz .050 - 50 amps, 277/480Vac, 50/60Hz .050 - 50 amps, 250Vac, 400Hz 	Interrupting Capacity <ul style="list-style-type: none"> 5000 amps, 250Vac, 50/60Hz 1500 amps, 250Vac, 400Hz 7500 amps, 80Vdc 2000 amps, 240Vac, 50/60Hz (VDE) 2000 amps, 415Vac, 50/60Hz (VDE) 4000 amps, 80Vdc (VDE) 1200 amps, 277/480Vac 	Approvals* <ul style="list-style-type: none"> UL Recognized CSA Certified VDE Approved (IEL) UL 1500 Certified CE Compliant CCC Approved <p>* Consult factory for conditions of acceptability.</p>
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LEL



General Description <ul style="list-style-type: none"> LEL versions meet IEC spacing requirements for installation in equipment that must comply with IEC 601 and 950, and VDE 0730, 0804, and 0805 Multi-pole versions with multi or single handle Option auxiliary switch Snap-in mounting option Mid-trip handle option Dual frequency option 	Max Poles <ul style="list-style-type: none"> 3 	Current & Voltage Ratings <ul style="list-style-type: none"> .050 - 100 amps, 80Vdc .050 - 50 amps, 125Vac, 50/60Hz .100 - 70 amps, 120/240Vac, 50/60Hz .100 - 100 amps, 80Vdc (VDE) .100 - 50 amps, 250Vac (VDE) 	Interrupting Capacity <ul style="list-style-type: none"> 50000 amps, 80Vdc 5000 amps, 125Vac, 120/240Vac, 50/60Hz 2000 amps, 80Vdc (VDE) 2000 amps, 250Vac, 50/60Hz (VDE) 	Approvals* <ul style="list-style-type: none"> UL 489 Listed CSA Certified VDE Approved CE Compliant CCC Approved <p>* Consult factory for conditions of acceptability.</p>
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LELHP/CELHP



General Description <ul style="list-style-type: none"> Unique, parallel current sensing design Compact size, high current capacity Auxiliary switch options available Mid-trip handle option 	Max Poles <ul style="list-style-type: none"> 1 	Current & Voltage Ratings <ul style="list-style-type: none"> 125 amps, 80Vdc, paralleled poles 150 amps, 80Vdc, paralleled poles 175 amps, 80Vdc, paralleled poles 200 amps, 80Vdc, paralleled poles 250 amps, 80Vdc, paralleled poles 	Interrupting Capacity <ul style="list-style-type: none"> 10000 amps, 80Vdc 50000 amps, 250Vac, 50/60Hz (up to 150 amps) 10000 amps, 80Vdc (>150 amps) 	Approvals* <ul style="list-style-type: none"> UL 489 Listed UL 489A Listed CSA Certified <p>* Consult factory for conditions of acceptability.</p>
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IALR/IULR/IELR



General Description <ul style="list-style-type: none"> IELR versions meet IEC spacing requirements for installation in equipment that must comply with IEC 601 and 950, and VDE 0730, 0804, and 0805 Designed to mount on standard 35mm DIN rails 	Max Poles <ul style="list-style-type: none"> 4 	Current & Voltage Ratings <ul style="list-style-type: none"> .050 - 70 amps, 80Vdc .050 - 70 amps, 250Vac, 50/60Hz .100 - 50 amps, 80Vdc (VDE) .100 - 50 amps, 250Vac, 50/60Hz (VDE) .100 - 30 amps, 415Vac, 50/60Hz (VDE) 	Interrupting Capacity <ul style="list-style-type: none"> 7500 amps, 80Vdc 5000 amps, 250Vac, 50/60Hz 2000 amps, 277Vac, 50/60Hz 2000 amps, 250Vac, 50/60Hz 2000 amps, 250Vac, 50/60Hz (VDE) 2000 amps, 415Vac, 50/60Hz (VDE) 4000 amps, 80Vdc (VDE) 	Approvals* <ul style="list-style-type: none"> UL Recognized CSA Certified VDE Approved (IELR) CE Compliant <p>* Consult factory for conditions of acceptability.</p>
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209/219/229/279



General Description <ul style="list-style-type: none"> Front-or-back connected terminal styles E-Frame style model complies with UL standard 489 249 Power Selector Breaker System is listed as a Branch Circuit Breaker per UL 489 Complies with International Requirements 279 style complies to UL 489A 	Max Poles <ul style="list-style-type: none"> 6 	Current and Voltage Ratings <ul style="list-style-type: none"> .100 to 100 amps, 160Vdc .100 to 125 amps, 125Vdc .100 to 77 amps, 600Vac .100 to 100 amps, 347/600Vac .100 to 100 amps, 240Vac .100 to 100 amps, 125Vdc, 240Vac/415Vac (VDE) 	Interrupting Capacity <ul style="list-style-type: none"> 5000 amps 10000 amps 4000 (VDE) 	Approvals* <ul style="list-style-type: none"> UL 489 Listed UL 489A Listed (279) UL Recognized CSA Certified VDE Approved UL 1500 Certified CE Compliant CCC Approved (pending) <p>* Consult factory for conditions of acceptability.</p>
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JAE/JRE/JTE/JLE



General Description <ul style="list-style-type: none"> F-frame style complies with UL 489 Various terminal options for design flexibility Reduced voltage drop through the circuit breaker compared to other circuit protective devices Auxiliary switch options Mid-trip handle option 	Max Poles <ul style="list-style-type: none"> 6 	Current & Voltage Ratings <ul style="list-style-type: none"> UL 489 .100 - 250 amps, 160Vdc .100 - 250 amps, 65Vdc .100 - 250 amps, 125/250Vdc .100 - 250 amps, 240Vac UL 489A .275 - 800 amps, 160Vdc .275 - 1200 amps, 65Vdc 	Interrupting Capacity <ul style="list-style-type: none"> 10000 amps, 160Vdc 10000 amps, 125/250Vdc 65000 amps, 65Vdc 10000 amps, 240Vac 18000 amps, 240Vac 100000 amps, 65Vdc (UL 489A, up to 800A) 	Approvals* <ul style="list-style-type: none"> UL 489 Listed UL 489A Listed UL 1077 Recognized CSA Certified <p>* Consult factory for conditions of acceptability.</p>
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MDS



General Description <ul style="list-style-type: none"> Modular design provides unprecedented flexibility "Hot Plug" modules allow for equipment expansion without power shutdown Unique alarm conductors simplify signal wiring Modular load terminals available with top or rear access 	Max Positions <ul style="list-style-type: none"> 20 	Current & Voltage Ratings <ul style="list-style-type: none"> Max. load bus rating per position is 100 amps, 125Vdc 		
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JPBD/LPBD



General Description <ul style="list-style-type: none"> Ideal for disconnecting system batteries in emergency/maintenance situations Disconnect and overcurrent protection Completely front accessible enclosure Manual and remote disconnect capability Wall, rack or battery stand mounting Optional LED indication of power on, off and/or tripped condition Optional alarm circuit 	Max Poles <ul style="list-style-type: none"> 6 	Current & Voltage Ratings <p>JPBD Ratings</p> <ul style="list-style-type: none"> .100 to 1200 amps, 65Vdc .100 to 800 amps, 160Vdc <p>LPBD Ratings</p> <ul style="list-style-type: none"> .60 to 100 amps, 80Vdc .125 to 200 amps, 65Vdc 	Interrupting Capacity <p>JPBD Ratings</p> <ul style="list-style-type: none"> 50000 amps, 65Vdc 10000 amps, 160Vdc <p>LPBD Ratings</p> <ul style="list-style-type: none"> 50000 amps, 80Vdc 50000 amps, 65Vdc 	Approvals <ul style="list-style-type: none"> UL Listed under UL file E220375 (JPBD only)
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