





INDUSTRIAL POWER CONTROLS
















TECHNICAL QUICK SELECTION GUIDE

SUB-MINIATURE THERMOSTATS


Product	Family Details	Description	Poles	Current & Voltage Rating	Operating Temperature	Approvals (Consult Sensata for Relevant Approval Conditions)
 6600 Series	N/A	<ul style="list-style-type: none"> Sub-miniature bimetal thermostat 8-PIN DIP package configuration Snap-acting trip mechanism Increases operational life 	SPST	<ul style="list-style-type: none"> 1.0A max at 48VDC 25,000 cycles 1.0A max at 120VAC 30,000 cycles 0.020A max at 5VDC 100,000 cycles (gold) 	40°C to 130°C (104°F to 266°F)	cRUs VDE approved
 6700 Series	N/A	<ul style="list-style-type: none"> Sub-miniature bimetal thermostat T0-220 package configuration Snap-acting trip mechanism increases operational life VDE approved "P" version 	SPST	<ul style="list-style-type: none"> 0.5A max at 48VDC 20,000 cycles 0.001A max at 5VDC 100,000 cycles (gold) 	40°C to 130°C (104°F to 266°F)	cRUs VDE ("P" option)

CIRCUIT BREAKERS AND POWER SWITCHES


Product	Family Details	Description	Poles	Current & Voltage Rating	Interrupting Capacity	Approvals (Consult Sensata for Relevant Approval Conditions)
 IAR Series	IAR, IUR, IER, CUR, CER	<ul style="list-style-type: none"> 1U (1RU) hydraulic magnetic circuit breaker Low-profile design Auxiliary switch options available for alarm signaling 	1-2	<ul style="list-style-type: none"> 50A max at 80 VDC / 250 VAC 30A max, 120/240VAC (2 poles) 	<ul style="list-style-type: none"> 5000A, 65VDC 5000A, 80VDC 2000A, 250VAC 5000A, 120/240VAC (2 poles) 5000A, 80VDC (2 poles) 	<ul style="list-style-type: none"> C-UL recognized UL1077 recognized UL489A listed TUV approved
 SNAPAK®	N/A	<ul style="list-style-type: none"> Compact magnetic-hydraulic circuit protector Aesthetically pleasing for front panel mounting Toggle, rocker, push-pull and push-to-reset actuation options 	1-2	<ul style="list-style-type: none"> 7.5A max at 50 VDC / 250 VAC 30A max at 32 VDC / 120 VAC 25A max at 120/240 VAC (two poles) 20A max at 250 VAC (50/60 Hz, at 500AIC) 20A max at 65 VDC [two poles, at 500AIC] 	1000A	<ul style="list-style-type: none"> UL recognized CSA certified TUV approved CE compliant CCC approved
 AP Series	AP, AP-MIL, UP	<ul style="list-style-type: none"> QPL to MIL-PRF-39019 Sealed magnetic-hydraulic circuit protection Can withstand 100G shock repeatedly Ideal for use in Class 1, Div. 2 Groups A, B, C & D hazardous locations 	1-3	<p>AP ratings</p> <ul style="list-style-type: none"> 20A max at 50 VDC / 240 VAC <p>UP ratings (1 pole only)</p> <ul style="list-style-type: none"> 20A max at 50 VDC 15A max at 120 VAC 7.5A max at 240 VAC 	<p>AP ratings</p> <ul style="list-style-type: none"> 500A, 50 VDC, 120 VAC 300A, 240 VAC <p>UP ratings</p> <ul style="list-style-type: none"> 1000A, 50VDC, 240 VAC 	<ul style="list-style-type: none"> MIL-PRF-M39019 UL recognized (UP type only) FM approved (UP type only)
 IPA Series	IPA, CPA	<ul style="list-style-type: none"> Compact magnetic-hydraulic circuit protection Quick-connect, screw, PC board mount terminals Auxiliary switch options Multi-pole options with multi or single handle 	1-3	<ul style="list-style-type: none"> 30A max at 65 VDC / 240 VAC 20A max at 80 VDC (300 AIC) 25A max at 250 VAC, 50/60 Hz 15A max at 250 VAC, 400 Hz 25A max at 65 VDC / 250 VAC, (TUV) 15A max at 250 VAC, 400 Hz (TUV) 	1000A	<ul style="list-style-type: none"> UL 489A listed (CPA) UL recognized CUR recognized TUV certified CE compliant CCC approved (pending)
 IAG Series	IAG, IUG, IEG, IDG, CEG, LEG	<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 options with multi or single handle Auxiliary switch options Mid-trip handle option Snap-in mounting option Dual frequency delay options 	1-4	<ul style="list-style-type: none"> 50A max at 80 VDC 50A max at 240 VAC 30A max at 277 VAC, 50/60 Hz 30A max at 250 VAC, 400 Hz 30A max at 125 VAC, 50/60 Hz 30A max at 120/240 VAC, 50/60 Hz 	<ul style="list-style-type: none"> 5000A, 240 VAC, 50/60 Hz 1500A, 250 VAC, 400 Hz 7500A, 80 VDC (IEG) 5000A, 80 VDC (CEG) 2000A, 250 VAC, 50/60 Hz (VDE) 4000A, 80 VDC (VDE) 5000A, 125 VAC, 50/60 Hz (LEG) 5000A, 120/240 VAC, 50/60 Hz (LEG) 	<ul style="list-style-type: none"> UL 489 listed (LEG) UL 489A listed (CEG) UL recognized CSA certified VDE available CE compliant CCC approved UL 1500 certified QPL to MIL-PRF-55629
 LUX Series	IAX, LUX, LEX	<ul style="list-style-type: none"> Low depth to minimize PDU intrusion into equipment rack space 240VAC rating on a single pole further minimizes space requirements 5 kAIC and 10 kAIC versions available 	1-2	30A max at 240VAC, 50/60 Hz	<ul style="list-style-type: none"> 5,000A, 240VAC, 50/60 Hz 10,000A 240VAC, 50/60 Hz 	UL-489 Listed IEC 60947-2 (pending)
 LEGA Series	LEG, LMG, LEGA, LMGA	LEGA is a new "low depth" version of our standard IAG series hydraulic magnetic circuit breaker	1-3	<ul style="list-style-type: none"> 50A max at 80 VDC 50A max at 240 VAC 30A max at 277 VAC, 50/60 Hz 30A max at 250 VAC, 400 Hz 30A max at 125 VAC, 50/60 Hz 30A max at 120/240 VAC, 50/60 Hz 	<ul style="list-style-type: none"> 5000A, 240 VAC, 50/60 Hz 1500A, 250 VAC, 400 Hz 7500A, 80 VDC (IEG) 5000A, 80 VDC (CEG) 2000A, 250 VAC, 50/60 Hz (VDE) 4000A, 80 VDC (VDE) 5000A, 125 VAC, 50/60 Hz (LEG) 5000A, 120/240 VAC, 50/60 Hz (LEG) 	<ul style="list-style-type: none"> UL 489 listed (LEG) UL 489A listed (CEG) UL recognized CSA certified VDE available CE compliant CCC approved UL 1500 certified QPL to MIL-PRF-55629

Product	Family Details	Description	Poles	Current & Voltage Rating	Interrupting Capacity	Approvals (Consult Sensata for Relevant Approval Conditions)
IAL Series 	IAL, IUL, IEL	<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 options with multi or single handle • Auxiliary switch options • Snap-in mounting option • Mid-trip handle option • Various actuator options • Dual frequency delay options 	1-4	<ul style="list-style-type: none"> • 100A max at 65 VDC • 70A max at 80 VDC • 50A max at 250VDC • 50A max at 300VDC • 70A max at 240 VAC, 50/60 Hz • 50A max at 277 VAC, 50/60 Hz • 50A max at 277/480 VAC, 50/60 Hz • 50A max at 250 VAC, 400 Hz 	<ul style="list-style-type: none"> • 5000A, 240 VAC, 50/60 Hz • 1500A, 250 VAC, 400 Hz • 7500A, 80 VDC • 2000A, 240 VAC, 50/60 Hz (VDE) • 2000A, 415 VAC, 50/60 Hz (VDE) • 4000A, 80 VDC (VDE) • 1200A, 277/480 VAC, 50/60 Hz • 5000A, 250VDC • 1000A, 300VDC 	<ul style="list-style-type: none"> • UL recognized • CSA certified • VDE approved (IEL) • CE compliant (IEL) • CCC approved • UL 1500 certified • QPL to MIL-PRF- 55629
LEL Series 	LEL, LML	<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 options with multi or single handle • Auxiliary switch options • Snap-in mounting option • Mid-trip handle option • Various actuator options • Dual frequency delay options 	1-3	<ul style="list-style-type: none"> • 100A max at 80 VDC • 50A max at 125 VAC, 50/60 Hz • 80A max at 120/240 VAC, 50/60 Hz • 100A max at 80 VDC (VDE) • 50A max at 250 VAC (VDE) 	<ul style="list-style-type: none"> • 50000A, 80 VDC • 5000A, 125 VAC • 5000A, 120/240 VAC 50/60 Hz • 2000A, 80 VDC • 2000A, 250 VAC, 50/60 Hz (VDE) • 10000A, 120/240VAC, 50/60 Hz 	<ul style="list-style-type: none"> • UL 489 listed • CSA certified • VDE approved • CE compliant • CCC approved
LELP Series 		<ul style="list-style-type: none"> • Unique, parallel current sensing design • Compact size, high current capacity • Auxiliary switch options • Mid-trip handle option 	2-3	<ul style="list-style-type: none"> • 125A at 80 VDC† • 150A at 80 VDC† • 175A at 80 VDC† • 200A at 80 VDC† • 250A at 80 VDC† • 251A to 300A at 80 VDC†† <p>† Two paralleled poles †† Three paralleled poles</p>	<ul style="list-style-type: none"> • 10000A, 80 VDC • 50000A, 65 VDC (up to 150 amps) • 10000A, 80 VDC (> 150 amps) 	<ul style="list-style-type: none"> • UL 489 listed • UL 489A listed • CSA certified
IELR Series 	IALHR, IULHR, IELHR, IMLHR	<ul style="list-style-type: none"> • Meets 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 	1-4	<ul style="list-style-type: none"> • 70A max at 80 VDC • 70A max at 250 VAC, 50/60 Hz • 50A max at 80 VDC (VDE) • 50A max at 250 VAC, 50/60 Hz (VDE) • 30A max at 415 VAC, 50/60 Hz (VDE) 	<ul style="list-style-type: none"> • 7500A, 80 VDC • 5000A, 250 VAC, 50/60 Hz • 2000A, 277 VAC, 50/60 Hz • 2000A at 250 VAC, 50/60 Hz (VDE) • 2000A at 415 VAC, 50/60 Hz (VDE) • 4000A at 80 VDC (VDE) 	<ul style="list-style-type: none"> • UL recognized • CSA certified • VDE approved (IELR) • CE compliant
209 Series 	209, 219, 229, 279, 299	<ul style="list-style-type: none"> • Front or back connected terminal styles • E-frame style model complies with UL 489 • 249 Power Selector Breaker system is listed as a branch circuit breaker per UL 489 • Complies with international requirements • 279 complies with UL 489A 	1-6	<ul style="list-style-type: none"> • 100A max at 160 VDC • 125A max at 125 VDC • 77A max at 600 VAC • 100A max at 347/600 VAC • 100A max at 120, 240, 277, 480 VAC • 100A max , 125 VDC, 240/415 VAC (VDE) 	<ul style="list-style-type: none"> • 5000A • 10000A • 4000A (VDE) 	<ul style="list-style-type: none"> • UL 489 listed • UL 489A listed (279) • UL recognized • CSA certified • VDE approved • UL1500 certified • CCC approved • CE compliant
JAE Series 	JAE, JRE, JLE	<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 protective devices • Auxiliary switch options • Mid-trip handle options 	1-6	<p>UL489</p> <ul style="list-style-type: none"> • 100A to 250A at 160 VDC • 100A to 250A at 65 VDC • 100A to 250A at 125/250 VDC • 100A to 250A at 240 VAC <p>UL489A</p> <ul style="list-style-type: none"> • 275A to 800A at 160 VDC • 275A to 1200A at 65 VDC 	<ul style="list-style-type: none"> • 10000A, 160 VDC • 10000A, 125/250 VDC • 65000A, 65 VDC • 10000A, 240 VAC • 18000A, 240 VAC • 100000A, 65VDC • (UL489A up to 800A) 	<ul style="list-style-type: none"> • UL 489 listed • UL 489A listed • UL recognized • CSA certified • VDE approved • CCC approved • CE compliant

MODULAR DISTRIBUTION SYSTEMS

Product	Family Details	Description	Positions	Current & Voltage Rating	Interrupting Capacity	Approvals (Consult Sensata for Relevant Approval Conditions)
MDS2 Series 	273	<ul style="list-style-type: none"> • Modular Distribution System provides unprecedented flexibility • "Hot Plug" modules allow for equipment expansion without power shutdown • Unique alarm conductors simplify signal wiring • Modular load terminals available with front or rear access 	4 to 24	<ul style="list-style-type: none"> • Maximum load bus rating per position is 100 amps, 125VDC 	• See Airpax™ IEL series	• See Airpax™ IEL series

GROUND FAULT PROTECTION SENSING

Product	Family Details	Description	Poles	Current & Voltage Rating	Interrupting Capacity	Approvals (Consult Sensata for Relevant Approval Conditions)
PGFM Series 	N/A	<ul style="list-style-type: none"> • GFCI sensing module designed to operate in tandem with the LEL series circuit breaker with a shunt voltage trip and auxiliary switch • Manufactured by North Shore Safety, Ltd., a leader in innovative safety products • Automatic and manual reset configurations • Power and fault status indicators • Double insulated user interface 	4 to 24	<p>Ground Trip Current</p> <ul style="list-style-type: none"> • 4 to 6 mA <p>Trip Time, Combined Assembly</p> <ul style="list-style-type: none"> • ≤ 25 mS <p>Rated Voltage</p> <ul style="list-style-type: none"> • 120 VAC or 240 VAC, 50/60 Hz <p>Let-Go Voltage</p> <ul style="list-style-type: none"> • 60% of supply voltage 	• See Airpax™ LEL series	<ul style="list-style-type: none"> • UL 943, Class A or UL 1053 Compliant

ABOUT US

Sensata Technologies is one of the world's leading suppliers of sensing, electrical protection, control and power management solutions with operations and business centers in twelve countries. Sensata's products improve safety, efficiency and comfort for millions of people every day in automotive, appliance, aircraft, industrial, military, heavy vehicle, heating, air-conditioning and ventilation, data, telecommunications, recreational vehicles and marine applications. For more information, please visit the Sensata website.

Copyright © 2023 Sensata Technologies, Inc.
3/2023

CONTACT US

Regional head offices:

United States of America

Sensata Technologies Attleboro, MA

Phone: 508-236-3800

E-mail: support@sensata.com

Netherlands

Sensata Technologies Holland B.V. Hengelo

Phone: +31 74 357 8000

E-mail: support@sensata.com

China

Sensata Technologies China Co., Ltd. Shanghai

Phone: +8621 2306 1500

E-mail: support@sensata.com

[sensata.com](https://www.sensata.com)

