



GROUND-FAULT PROTECTION



GROUND-CONDUCTOR MONITORING



RESISTANCE GROUNDING/NGR MONITORING



FEEDER PROTECTION



ARC-FLASH PROTECTION



SWITCHING RELAYS & CONTROLS



MOTOR & PUMP PROTECTION



PUMP CONTROLLERS



AC SYSTEM MONITORS/LOAD SENSORS



TIMERS



**FLASHERS, TOWER &
OBSTRUCTION LIGHTING CONTROL**



Over 225 Relay Product Series are contained in this handy guide.

Product Selection as Easy as 1-2-3

STEP 1:

Select the product category

example

⚡ ARC-FLASH PROTECTION

ARC-FLASH DETECTION

Rapidly detect an arc flash to reduce damage to equipment and risk to personnel

STEP 2:

Use the decision tree to determine what features you need for your application

example

Sensor Health Monitoring

Y

N

Overcurrent Detection

Y

N

STEP 3:

Leads you to the product series that is the best fit.

example



PGR-8800 SERIES



AF0500 SERIES



D0920

PRODUCT SELECTION GUIDE

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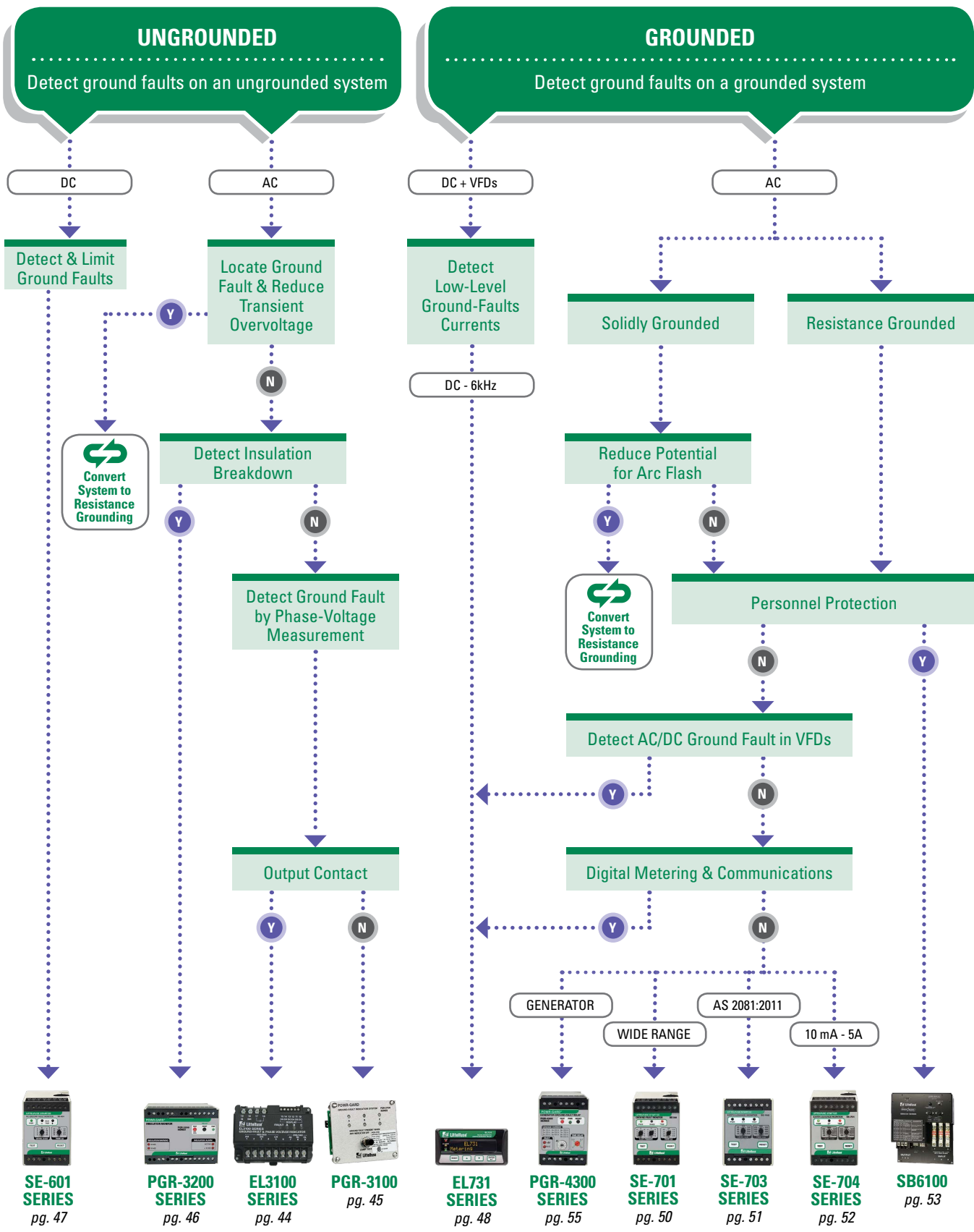
GROUND-FAULT PROTECTION



STEP 1 Select product category

STEP 2 Select the needed features in each category

STEP 3 Find the recommended product for your application



SE-601 SERIES
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PGR-3200 SERIES
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EL3100 SERIES
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PGR-3100
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EL731 SERIES
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PGR-4300 SERIES
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SE-701 SERIES
pg. 50

SE-703 SERIES
pg. 51

SE-704 SERIES
pg. 52

SB6100
pg. 53

Ground-Fault Protection Relays

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

GROUND-CONDUCTOR MONITORING



GROUND-FAULT & GROUND-CHECK

Ensure ground-conductor continuity for portable equipment and submersible pumps, and detect ground faults

Cable Voltage

<5kV

>5kV



**SE-105, SE-107
SERIES**
pg. 58



**SE-134C, SE-135
SERIES**
pg. 59

RESISTANCE GROUNDING/NGR MONITORING



RESISTANCE-GROUNDED AC

Solve problems commonly associated with ungrounded and solidly grounded systems and monitor the neutral-to-ground connection

Neutral-Grounding
Resistance (NGR)
Continuity Monitoring

Implement
Resistance
Grounding

Pulsing, Digital Filtering,
Communications, or Software

Y

N

Identify Faulted Feeder

Y

N



**SE-330 & SE-701
SERIES**
(use in combination)
pg. 63 pg. 50



**SE-330
SERIES**
pg. 63



**SE-325
SERIES**
pg. 62



**NGR
SERIES**
pg. 66

Ground-Conductor Monitoring Relays

Resistance Grounding Systems & NGR Monitors

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

FEEDER PROTECTION



STANDARD

Protect distribution feeders in processing, manufacturing, petroleum, chemical, and wastewater treatment facilities

ADVANCED

Monitor voltage and current using a modular system with integrated protection, breaker control, metering, and data-logging functions

Current Protection & Metering IEEE/IEC Overcurrent

Current Protection, Voltage Protection, & Metering IEEE/IEC Overcurrent



FPU-32 SERIES
pg. 70



FPS SERIES
pg. 70

ARC-FLASH PROTECTION



ARC-FLASH DETECTION

Rapidly detect an arc flash to reduce damage to equipment and risk to personnel

Sensor Health Monitoring

Y

N

Overcurrent Detection

Y

N

Multiple Zones, Communications, & Data Logging

Y

N



PGR-8800 SERIES
pg. 75



AF0500 SERIES
pg. 77



AF0100 SERIES
pg. 79



D0920
pg. 74

Feeder Protection Relays

Arc-Flash Relays



SOLID-STATE RELAYS

Designed for industrial applications requiring rugged, reliable operation

PHASE CONTROL

Designed for changing lamp intensity, varying the speed of a fan, or controlling the temperature of a heater

TEMPERATURE CONTROL

A single set point controller with high current, solid state output for resistive loads

Optical Isolation Between the Control Voltage Input and the Solid-State Output

Y

N

Random Switching for Inductive Loads

Random Switching for Inductive Loads

Y

N

Zero Voltage Switching for Resistive and Incandescent Loads



SIR1 SERIES
pg. 86



SIR2 SERIES
pg. 86



SLR SERIES
pg. 88



PHS SERIES
pg. 84



TCR9C
pg. 90

Solid-State Switching Relays

Phase Control Switching Relays

Temperature Control Relays

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

MOTOR & PUMP PROTECTION



SUPPLEMENTAL PROTECTION (MOTOR)

Protection for motors against insulation degradation, overheating, or ventilation failure

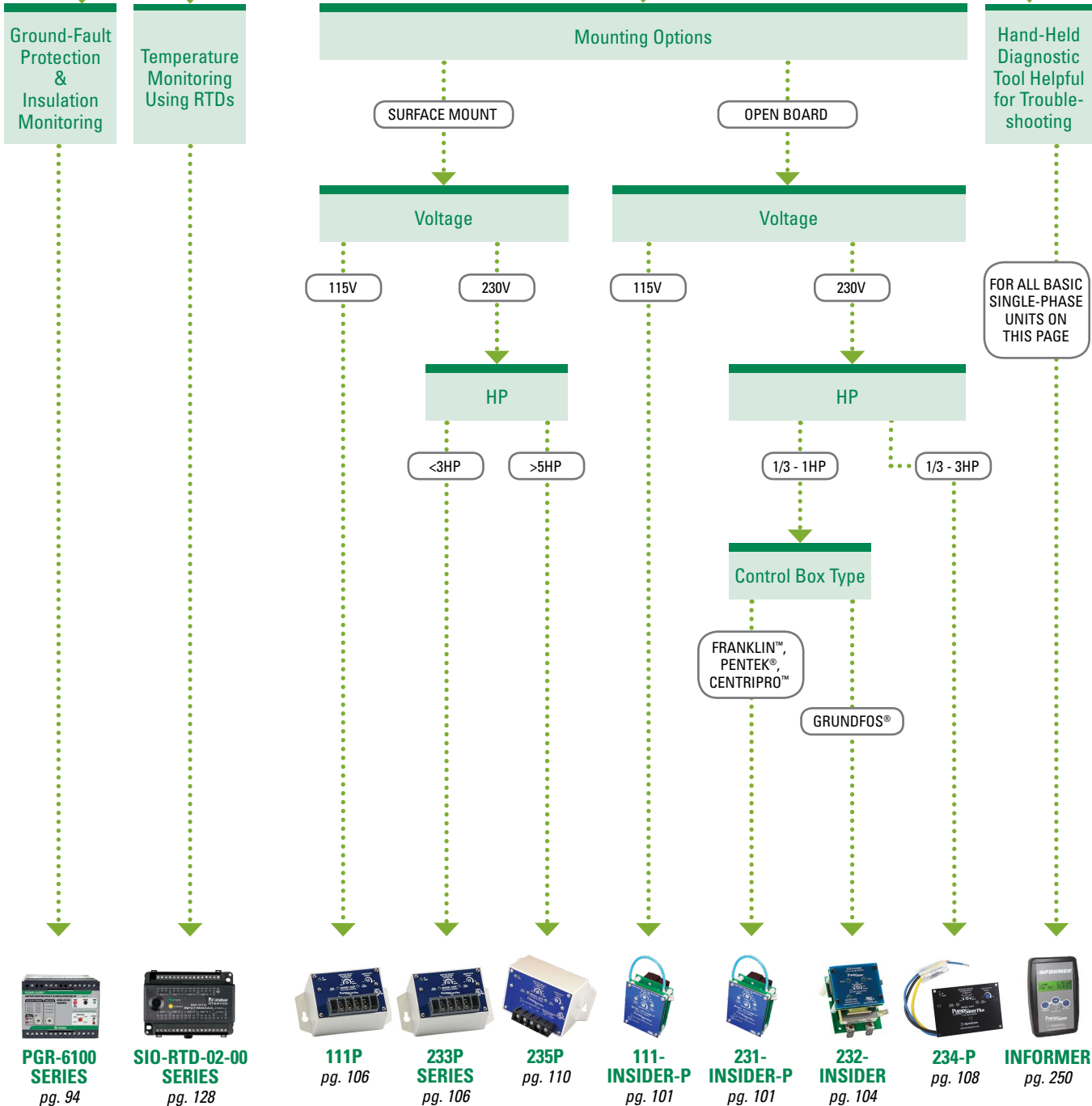
BASIC (PUMP)

Protection of single-phase pumps against dry-well, dead-head, jammed impeller, rapid-cycling and over/under voltage

STEP 1 Select product category

STEP 2 Select the needed features in each category

STEP 3 Find the recommended product for your application



Basic Motor & Pump Protection

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

MOTOR & PUMP PROTECTION



STANDARD
 Multi-function protection for low and medium voltage motors

STANDARD WITH BLUETOOTH®
 Multi-function protection for single-phase and three-phase low and medium voltage motors and pumps with real-time data, programming and troubleshooting via iPhone® or Android™ app

Single-Phase

Three-Phase

Under Power Protection for Pump Applications

Under Power Protection for Pump Applications

Y

N

Y

N

4-20mA Output Power

Temperature Protection & Reduced Overcurrent

Y

N

Y

N



77C-KW/HP SERIES
pg. 125



77C SERIES
pg. 118



777-ACCUPOWER & COM 4-20
(use in combination)
pg. 123 pg. 261



777-KW/HP-P2 SERIES
pg. 120



MPU-32 SERIES
pg. 96



777-P2 SERIES
pg. 114



MP8000 SERIES
pg. 112

Standard Motor & Pump Protection

Standard Motor & Pump Protection with Bluetooth®

MOTOR & PUMP PROTECTION



ADVANCED

Comprehensive voltage protection and starter control for medium voltage motors and pumps

RETROFITS

Pre-wired plug & play replacement for obsolete and competitors' relays



MPS SERIES
pg. 98



MPU-32-X69X SERIES
pg. 100



MPS-469X SERIES
pg. 100

PUMP CONTROLLERS



SEAL LEAK DETECTORS

Detect pump seal leaks & motor overheating on submersible pumps

Controller Functionality

SINGLE-CHANNEL

DUAL-CHANNEL

Mounting Option

8-PIN SOCKET

DIN RAIL

Seal Leak & Over Temperature

Y

N

Dual Seal Leak



201-100-SLD
pg. 136



460-15-100-SLD
pg. 139



PC-102CICI-LT
pg. 132



PC-102CICI-DL
pg. 132

Advanced Motor & Pump Protection

Retrofits

Seal Leak Detection

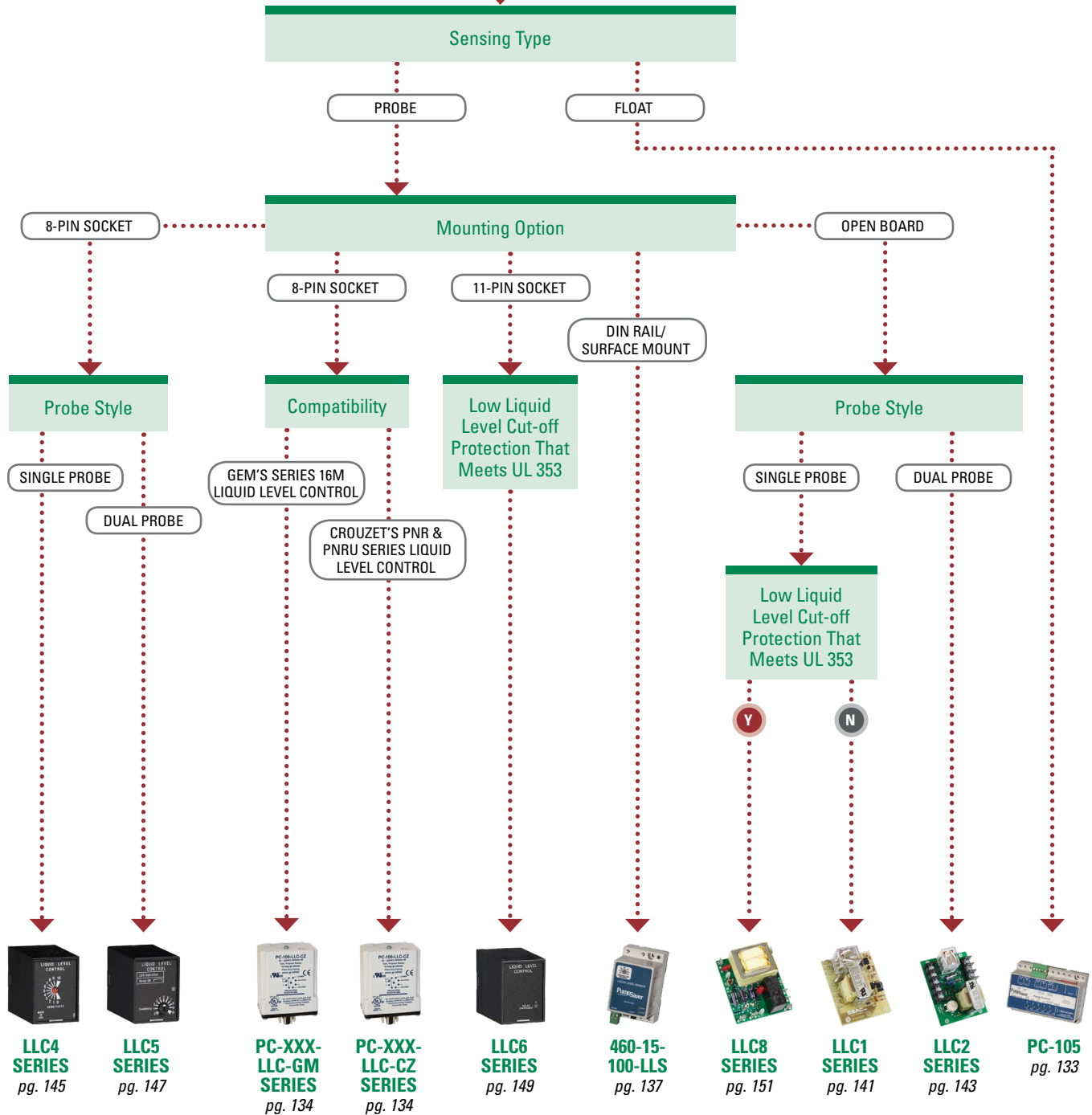
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PUMP CONTROLLERS



LIQUID LEVEL CONTROLS

Control liquid pumping operations in a pump-up or pump-down application



Liquid Level Controls

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

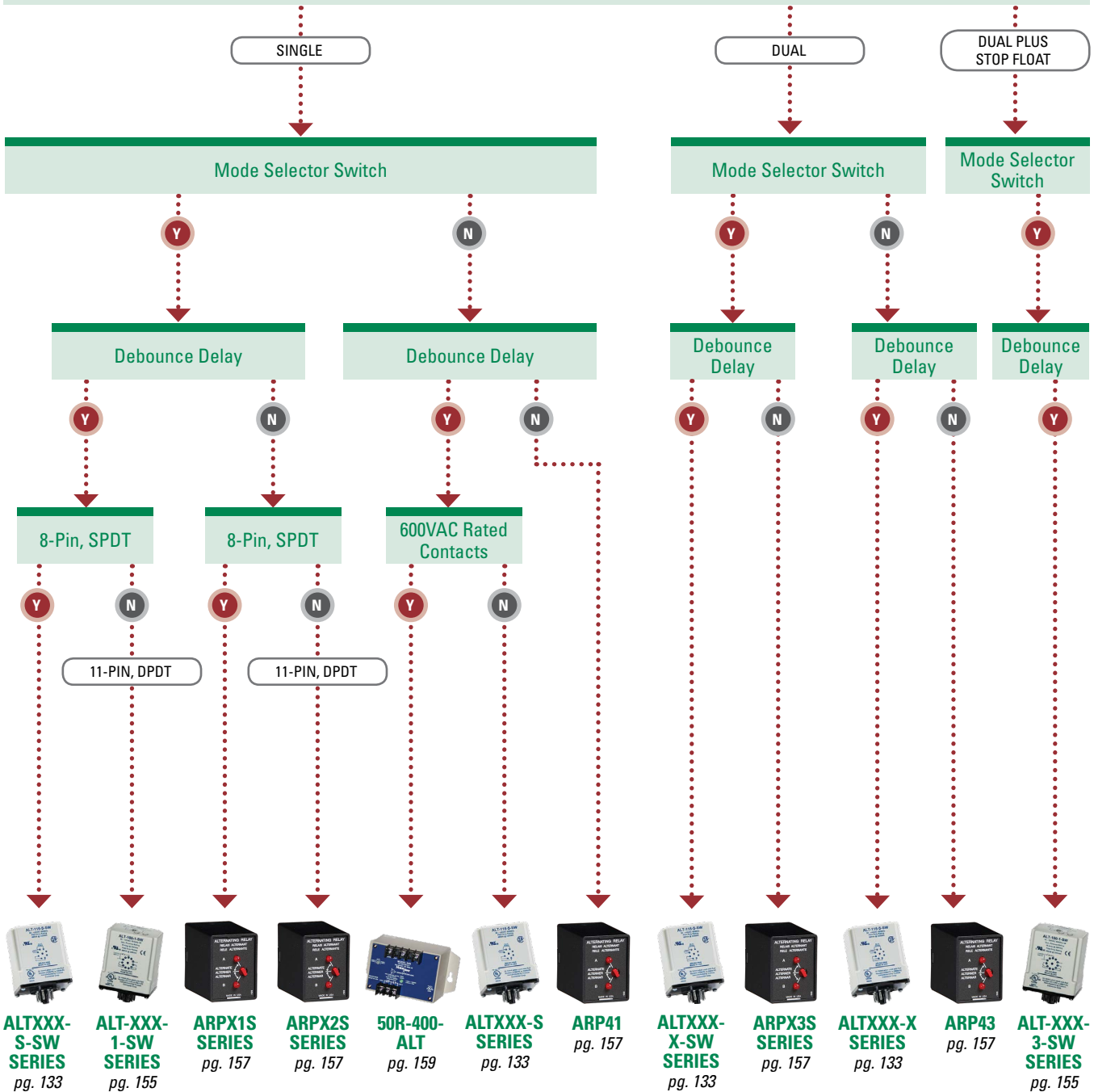
PUMP CONTROLLERS



ALTERNATING RELAYS

Used in duplex pumping applications to balance the run time of both pumps

Float Switch Configuration



Alternating Relays

STEP 1 Select product category

STEP 2 Select the needed features in each category

STEP 3 Find the recommended product for your application

PUMP CONTROLLERS



ALARM CONTROLS/ BATTERY CHARGERS

Dual-purpose alarm control/battery charger for pump control panels

INTRINSICALLY SAFE RELAYS

Used to interface between hazardous and non-hazardous areas

INTRINSICALLY SAFE PUMP CONTROLLER

Programmable to control/equalize run time of 2, 3, or 4 pumps, with the ability to interface between hazardous and non-hazardous areas

12-Pin Socket Included

Y

N

Number of Channels

SINGLE-CHANNEL

TWO CHANNELS

THREE CHANNELS

FOUR CHANNELS

FIVE CHANNELS

Mounting Option

DIN RAIL/
SURFACE MOUNT

8-PIN SOCKET



ACBC-120-SD
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ACBC-120
pg. 130



ISS-100
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ISS-101
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ISS-102 SERIES
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ISS-105-ISO-3
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ISS-105-ISO-4
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ISS-105-ISO
pg. 165



ISS-105
pg. 165

Alarm Control/Battery Charger

Intrinsically Safe Relays

Intrinsically Safe Pump Controller

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

AC SYSTEM MONITORS/LOAD SENSORS



VOLTAGE MONITORS (1 of 2)

Highly accurate and precise voltage measurements to provide high sensitivity while minimizing nuisance tripping

Three-Phase

Y

8-PIN SOCKET

Mounting Options

SURFACE MOUNT

DIN RAIL/SURFACE MOUNT

11-PIN SOCKET

Adjustable Trip Delay & Adjustable Unbalance

Adjustable % Voltage Unbalance

Reverse Phase Only

Y

N

2-8% RANGE

2-10% RANGE

Y

N

Unbalanced Voltage Protection

Contactor Failure Protection with/without Hand-held Diagnostic Tool

Y

N

Reverse Phase Only

Y

N

Y

N



201A-AU SERIES
pg. 202



PLMU11
pg. 229



201A SERIES
pg. 200



PLM SERIES
pg. 231



PLS SERIES
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PLR SERIES
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460 SERIES
pg. 216



DLMU SERIES
pg. 224



201-XXX-DPDT SERIES
pg. 204



202-RP
pg. 206



455 SERIES & INFORMER-MS
(use in combination)
pg. 214 pg. 250

Voltage Monitoring Relays

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

STEP 1 Select product category

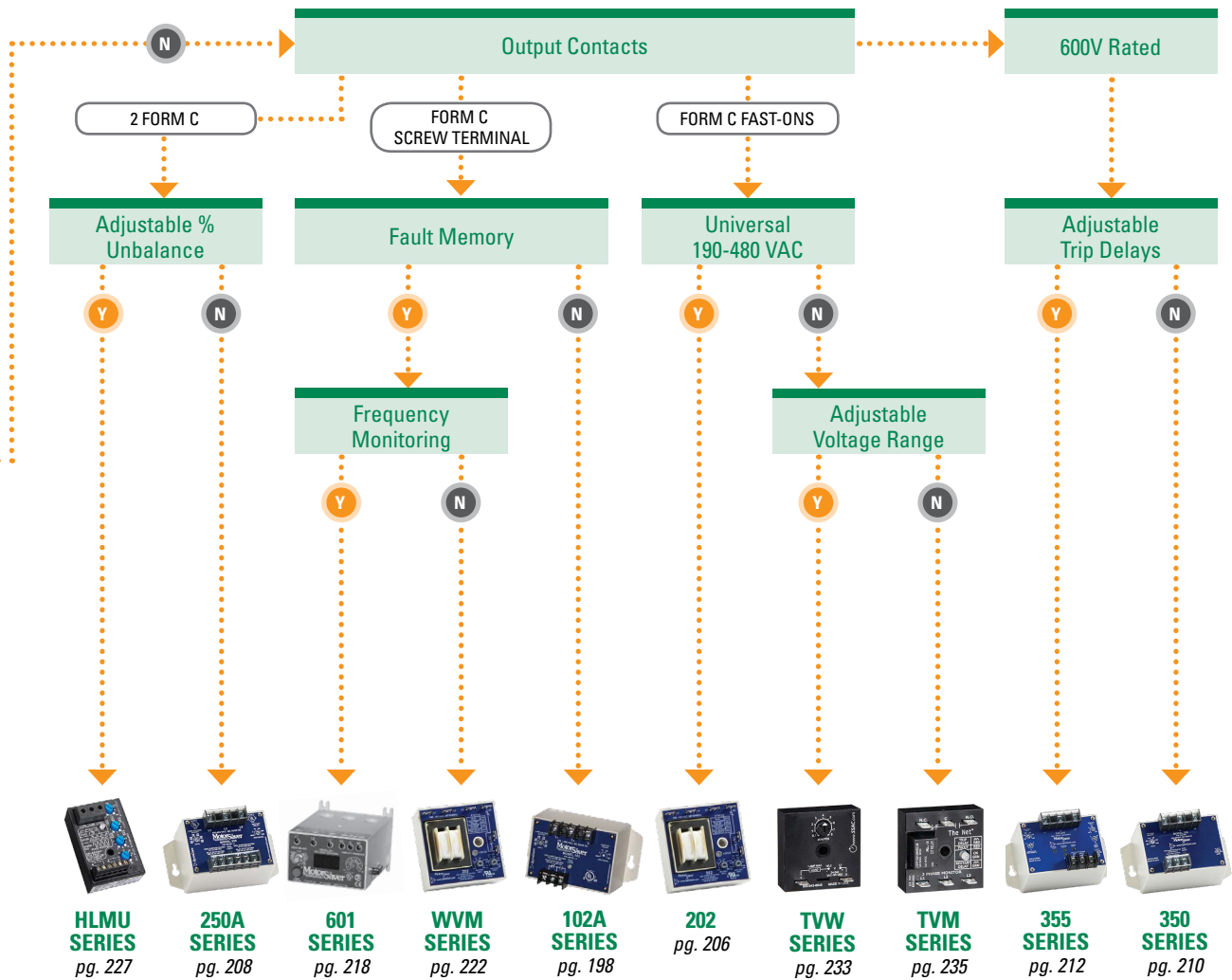
STEP 2 Select the needed features in each category

STEP 3 Find the recommended product for your application



VOLTAGE MONITORS (1 of 2)

(Continued from previous page)



Voltage Monitoring Relays

AC SYSTEM MONITORS/LOAD SENSORS

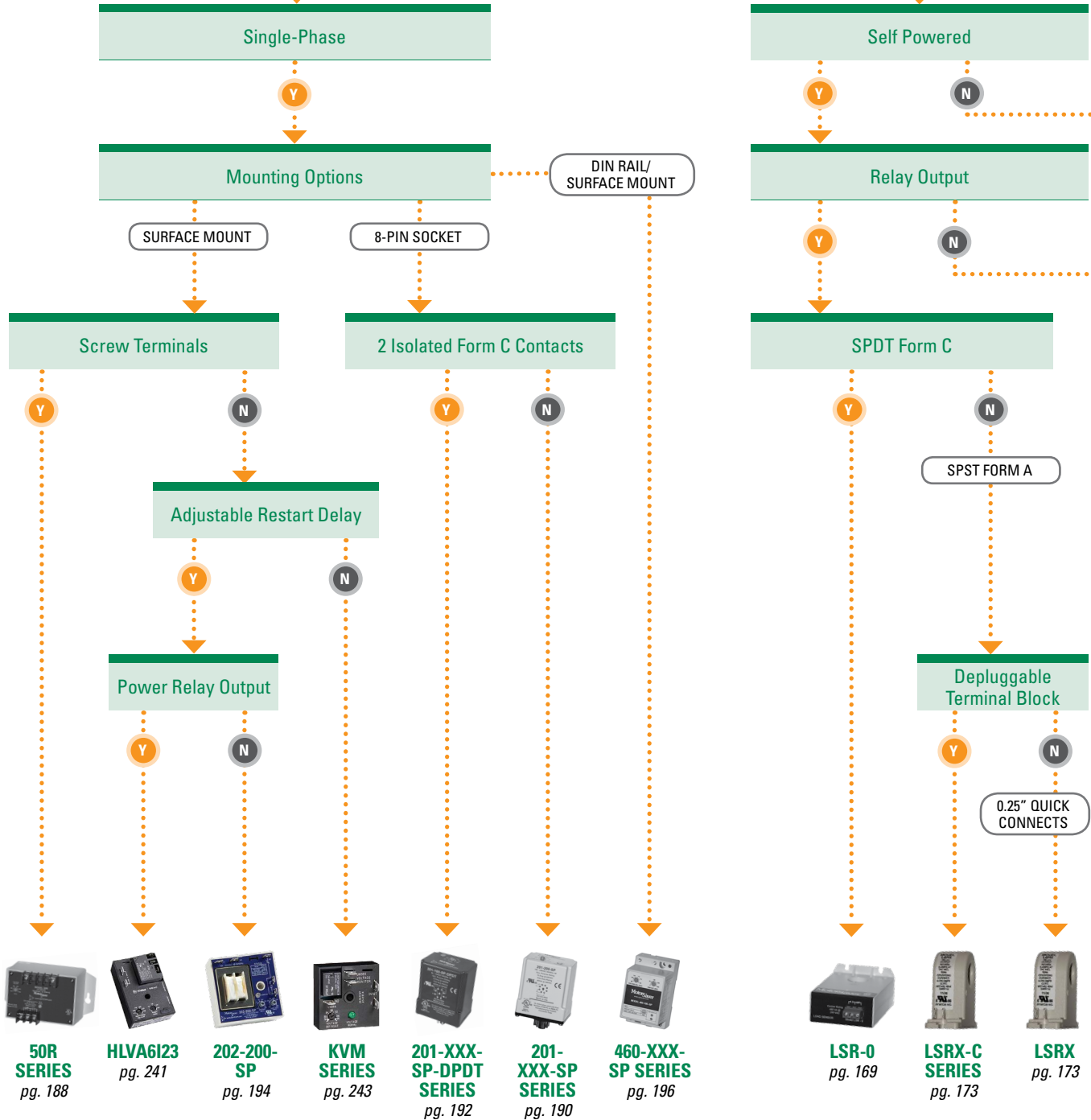


VOLTAGE MONITORS (2 of 2)

(Continued from previous page)

CURRENT MONITORS/LOAD SENSORS (1 of 2)

Multi-purpose controls used for pump and motor protection, to provide closed-loop feedback in a system, as a proof relay to indicate a load is energized, and more...

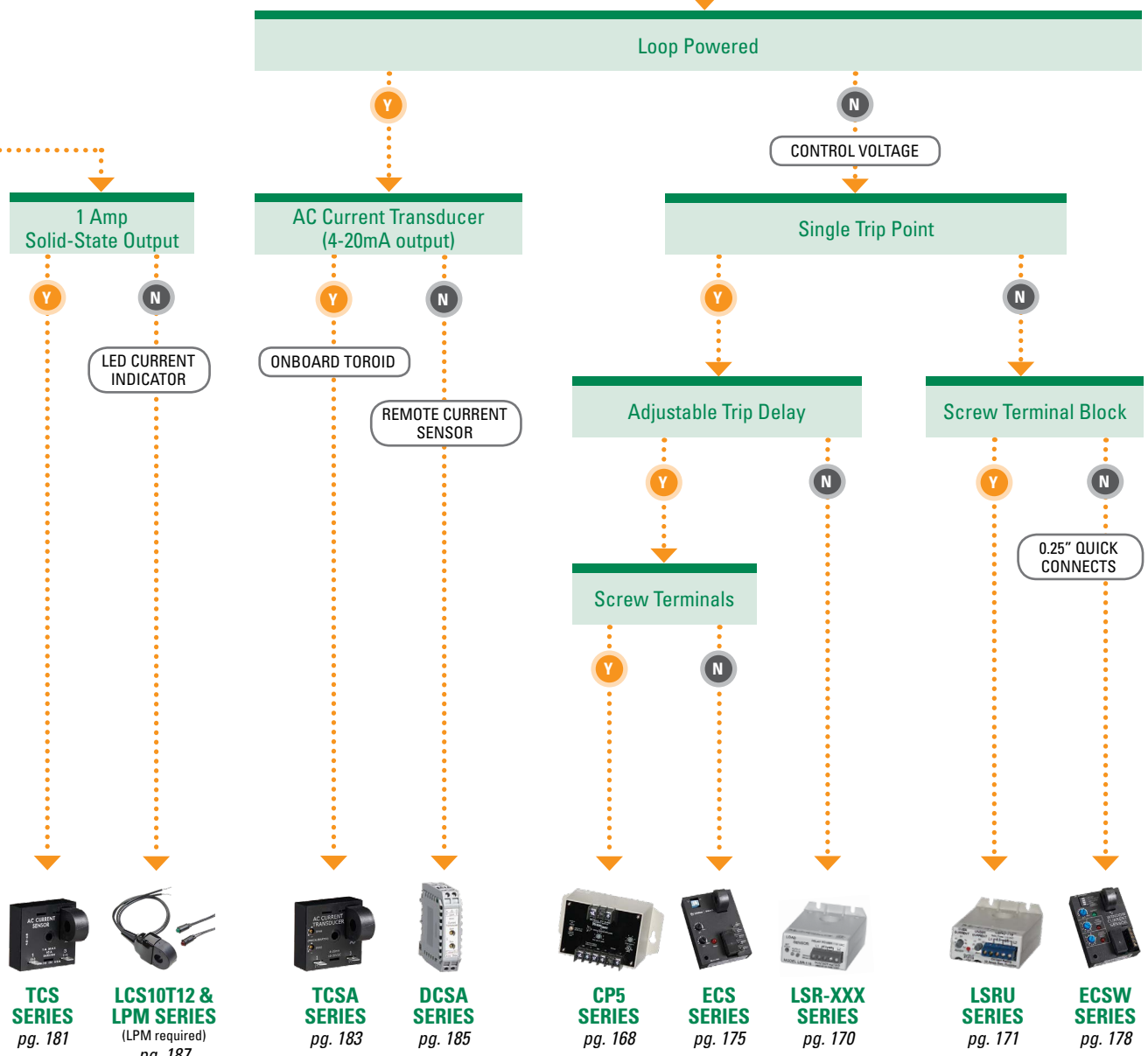


Voltage Monitoring Relays

Current Monitoring/Load Sensing Relays



CURRENT MONITORS/LOAD SENSORS (2 of 2)
 (Continued from previous page)



Current Monitoring/Load Sensing Relays

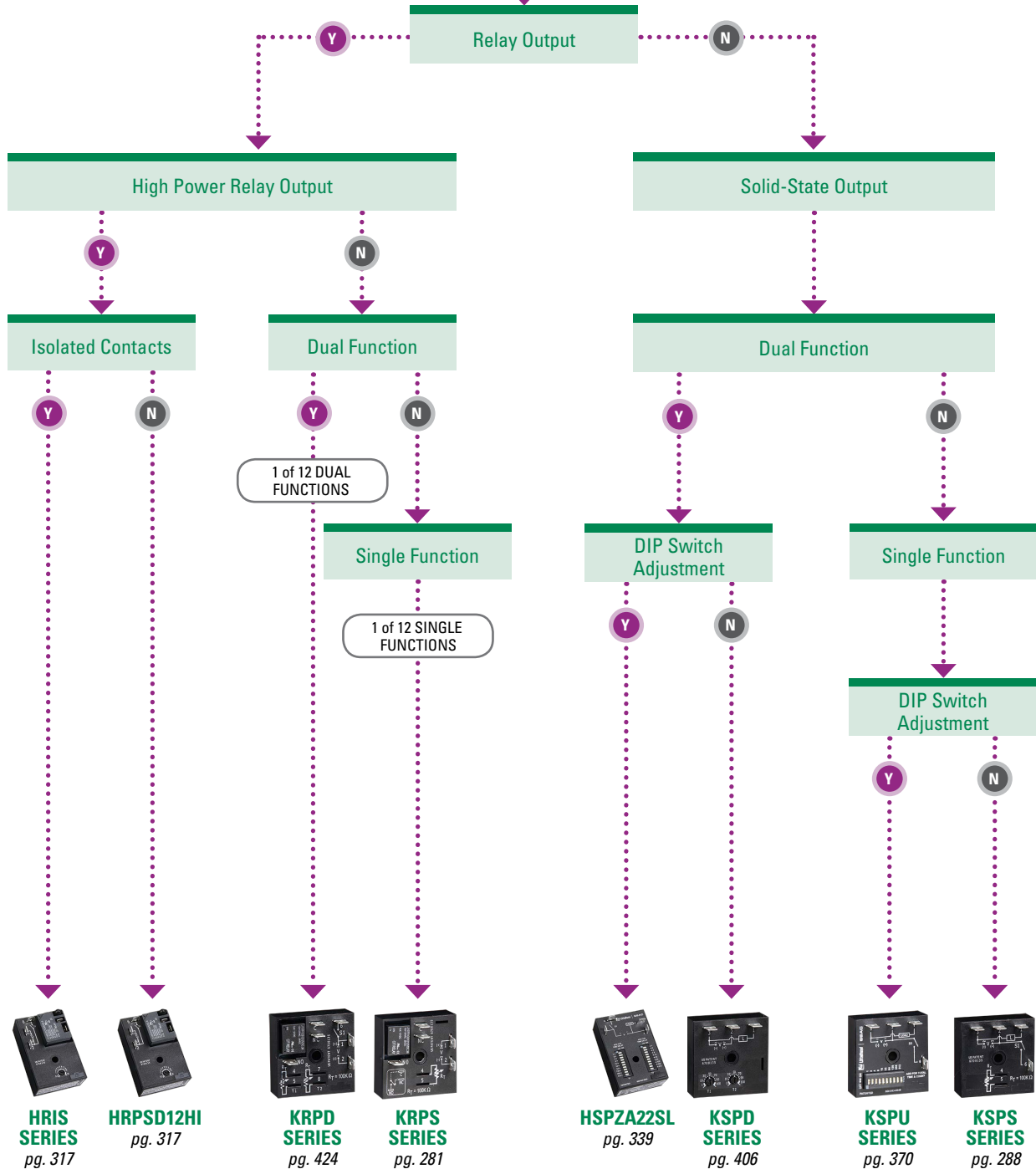
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TIMERS



FACTORY PROGRAMMABLE

Microprocessor based circuitry provides excellent repeat accuracy and stability



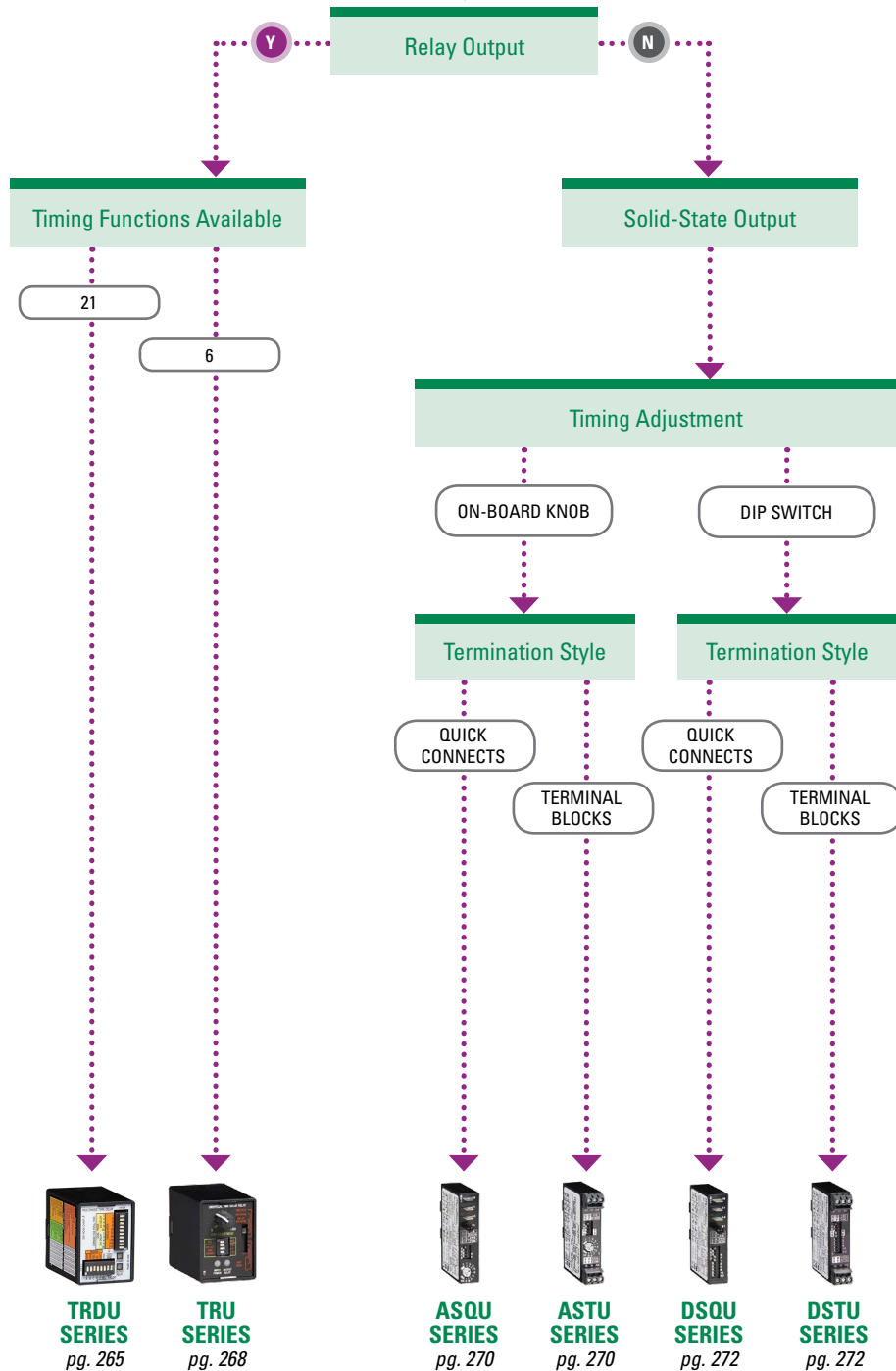
Factory Programmable Timers

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog



MULTIFUNCTION

Universal and fully programmable timing relays



TRDU SERIES
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TRU SERIES
pg. 268

ASQU SERIES
pg. 270

ASTU SERIES
pg. 270

DSQU SERIES
pg. 272

DSTU SERIES
pg. 272

Multifunction Timers

TIMERS



DEDICATED — SINGLE FUNCTION

Wide product offering to meet OEM and industrial requirements

DELAY-ON-MAKE

Package Style

8-PIN PLUG-IN

8-PIN OR 11-PIN
PLUG-IN

PC MOUNT/
STRANDED WIRE
LEADS TO
REPLACE BIMETAL
TYPE TIMERS

SURFACE MOUNT

DIP Switch Adjustment

Relay Output

Timing Ranges

Isolated

1-1023 s
in increments
of 1 s

0.1-102.3 s
in increments
of 0.1 s

10-10,230 s
in increments
of 10 s

Relay with
Isolated
DPDT or
SPDT

Isolated
DPDT
Relay

Contact Type

DPDT

SPDT

480/600V Contacts



**TDM
SERIES**
pg. 297



**TDMH
SERIES**
pg. 297



**TDML
SERIES**
pg. 297



**PRLM
SERIES**
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**TRM
SERIES**
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**ORM
SERIES**
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**MSM
SERIES**
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**ERDM
SERIES**
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T10
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**KRDM
SERIES**
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**HRDM
SERIES**
pg. 277

Delay-on-Make Timers

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

STEP 1 Select product category

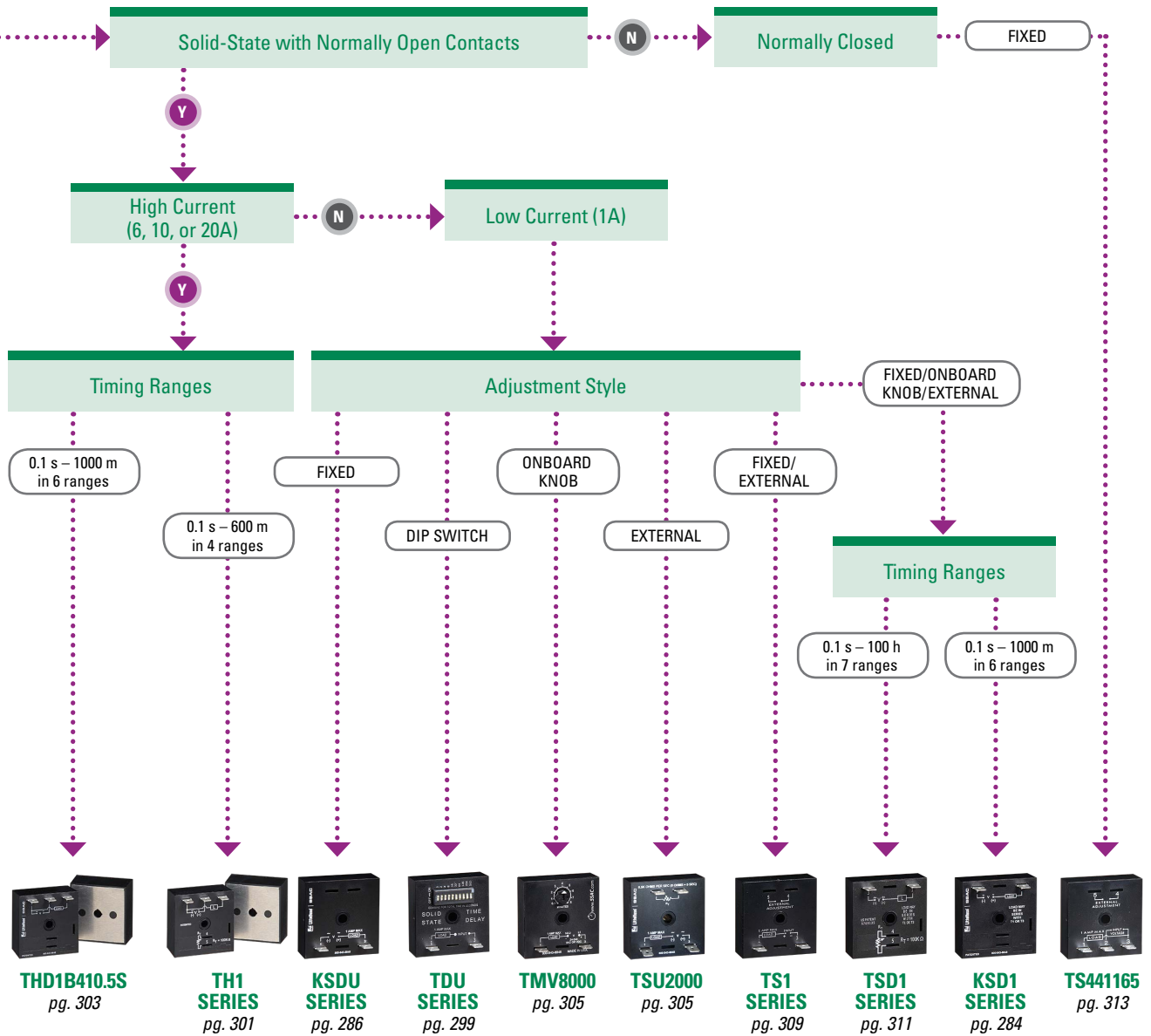
STEP 2 Select the needed features in each category

STEP 3 Find the recommended product for your application



DEDICATED — SINGLE FUNCTION

(Continued from previous page)



Delay-on-Make Timers

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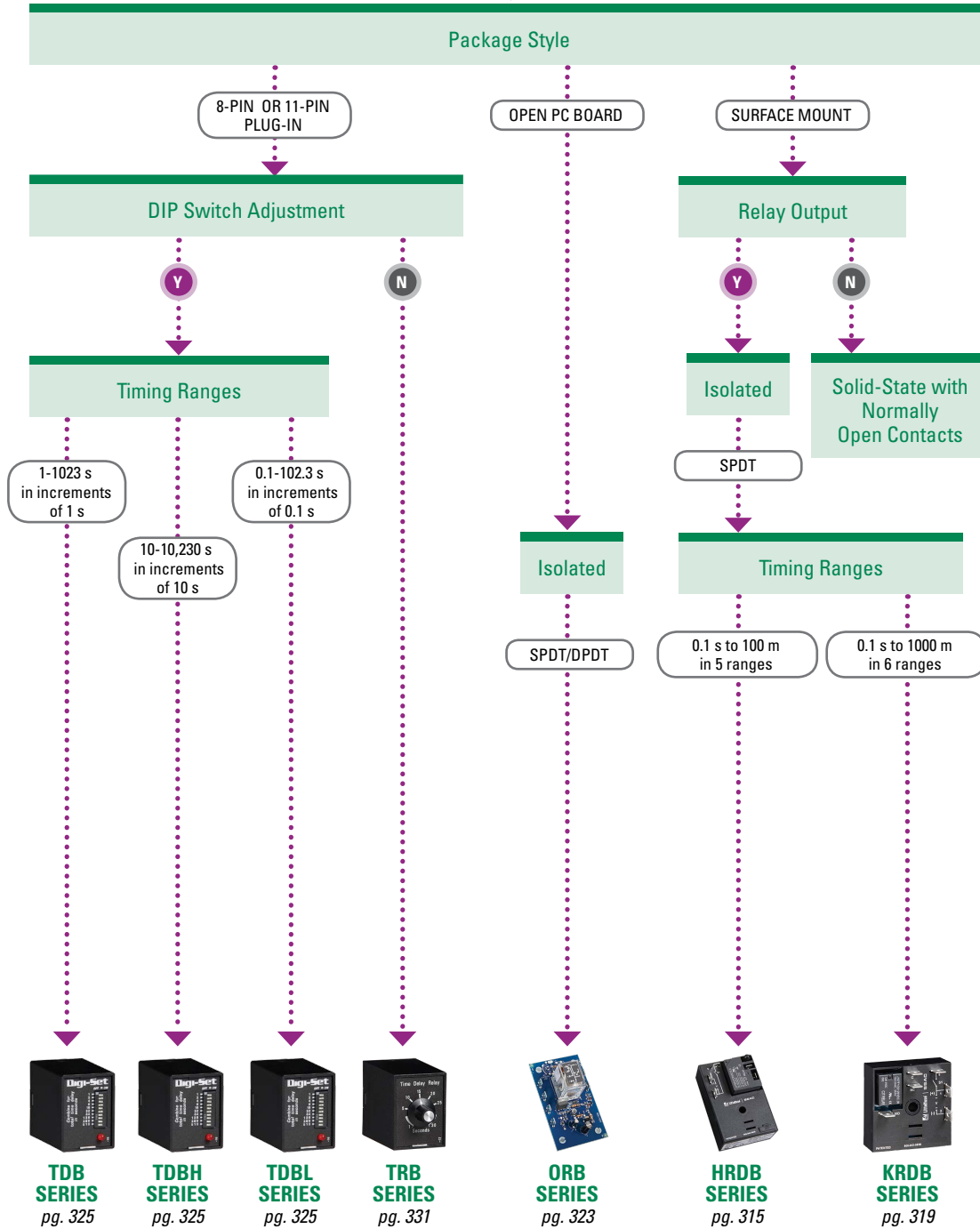
TIMERS



DEDICATED — SINGLE FUNCTION

Wide product offering to meet OEM and industrial requirements

DELAY-ON-BREAK



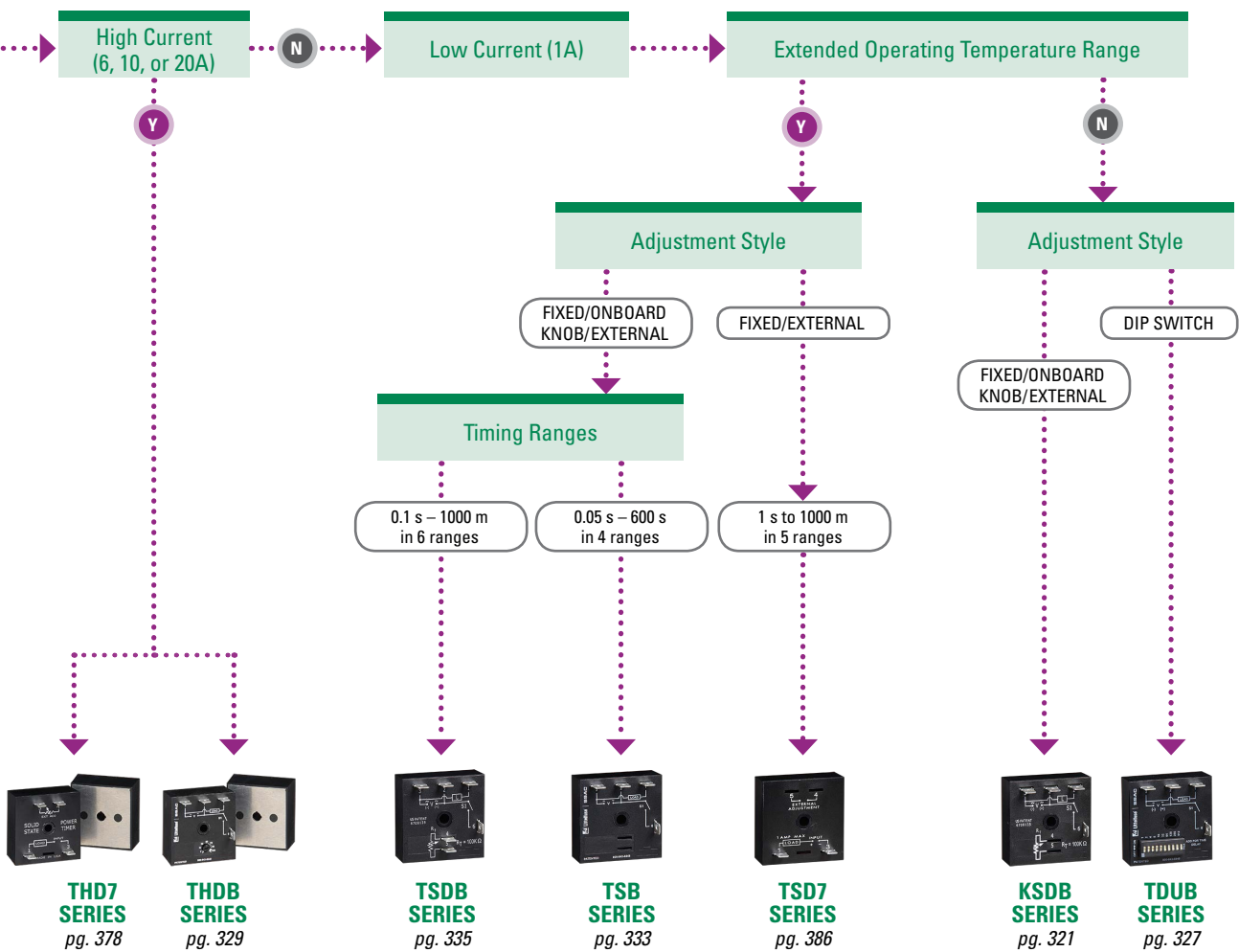
Delay-on-Break Timers

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DEDICATED — SINGLE FUNCTION

(Continued from previous page)



Delay-on-Break Timers

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

TIMERS



DEDICATED — SINGLE FUNCTION

Wide product offering to meet OEM and industrial requirements

SINGLE SHOT

Package Style

8-PIN OR 11-PIN
PLUG-IN

OPEN PC BOARD

SURFACE MOUNT

DIP Switch Adjustment

Retriggerable

Relay Output

Timing Ranges

Fixed/Knob/ External Adjustment

Isolated

Relay Output

Isolated

1-1023 s
in increments
of 1 s

0.1-102.3 s
in increments
of 0.1 s

10-10,230 s
in increments
of 10 s

Knob Adjust Only

Timing Ranges

0.1 s to 1000 m
in 6 ranges

DPDT

SPDT



TDS SERIES
pg. 348



TDSH SERIES
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TDSL SERIES
pg. 348



TRS SERIES
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PRS65
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ORS SERIES
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KRD9 SERIES
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TSD94110SB
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ERDI SERIES
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KRDS SERIES
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HRDS SERIES
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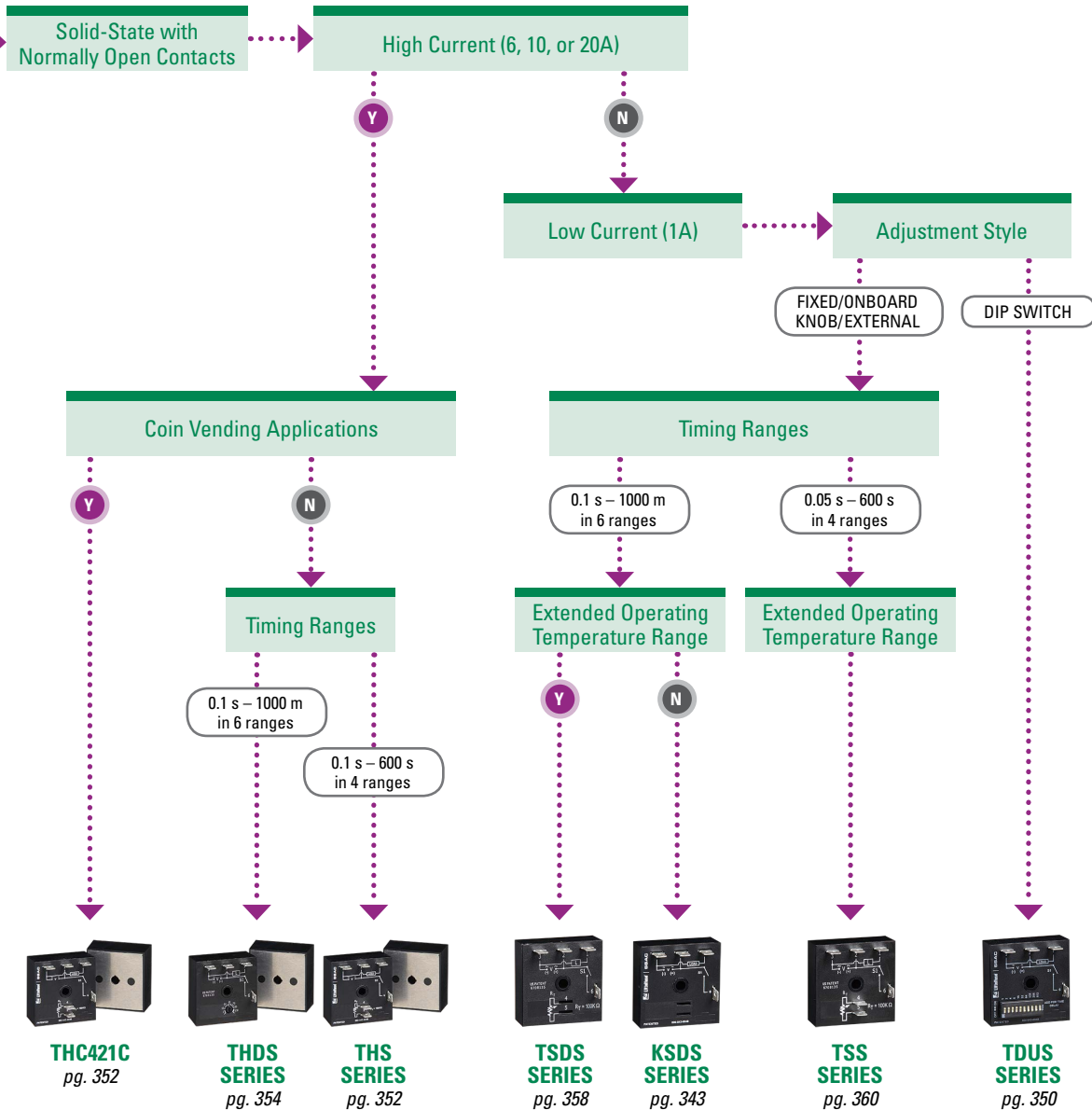
Single Shot Timers

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DEDICATED — SINGLE FUNCTION

(Continued from previous page)



Single Shot Timers

TIMERS



DEDICATED — SINGLE FUNCTION

Wide product offering to meet OEM and industrial requirements

INTERVAL

Package Style

8-PIN PLUG-IN

SURFACE MOUNT

Timing Ranges

1-1023 s in increments of 1 s

0.1-102.3 s in increments of 0.1 s

10-10,230 s in increments of 10 s

Relay Output

N

Solid-State Output

Isolated

Y

N

High Current (6, 10, or 20A)

N

Timing Ranges

0.1 s to 1000 m in 6 ranges

1 s to 1000 m in 5 ranges

DPDT

SPDT



TDI SERIES
pg. 372



TDIH SERIES
pg. 372



TDIL SERIES
pg. 372



ERDI SERIES
pg. 362



KRDI SERIES
pg. 366



HRDI SERIES
pg. 364



THD2 SERIES
pg. 376



THD7 SERIES
pg. 378

Interval Timers

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog

STEP 1 Select product category

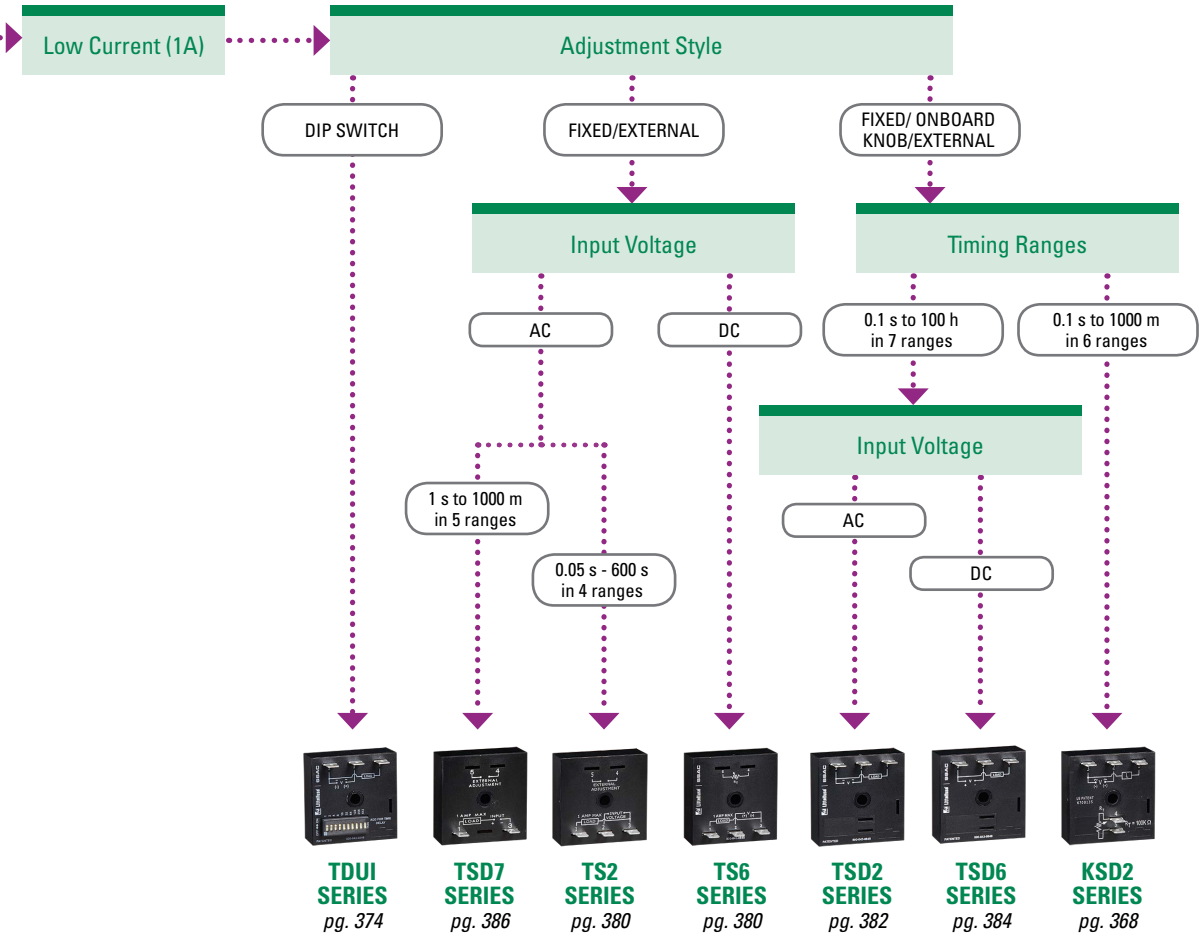
STEP 2 Select the needed features in each category

STEP 3 Find the recommended product for your application



DEDICATED — SINGLE FUNCTION

(Continued from previous page)



Interval Timers

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog



DEDICATED — SINGLE FUNCTION

Wide product offering to meet OEM and industrial requirements

RECYCLING

Package Style

SURFACE MOUNT

8-PIN PLUG-IN

Relay Output

Solid-State with Normally Open Contacts

Recycling Flashers

Y

Y

Isolated

High Current (6, 10, or 20A)

Y

N

Y

N

Contacts Type

Timing Ranges

Low Current (1A)

SPDT

DPDT

0.1 s to 1000 m in 6 ranges

Adjustment Style

Extended Operating Temperature Range

FIXED/ONBOARD KNOB

FIXED/ONBOARD KNOB/EXTERNAL

FIXED

0.1 s to 1000 m in 6 ranges



TDR SERIES
pg. 410



KRDR SERIES
pg. 400



KRD3 SERIES
pg. 398



ERD3425A
pg. 391



HRDR SERIES
pg. 396



THD3C42A0
pg. 412



TSD3411S
pg. 414



KSD3 SERIES
pg. 402

Recycling Timers

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STEP 1 Select product category

STEP 2 Select the needed features in each category

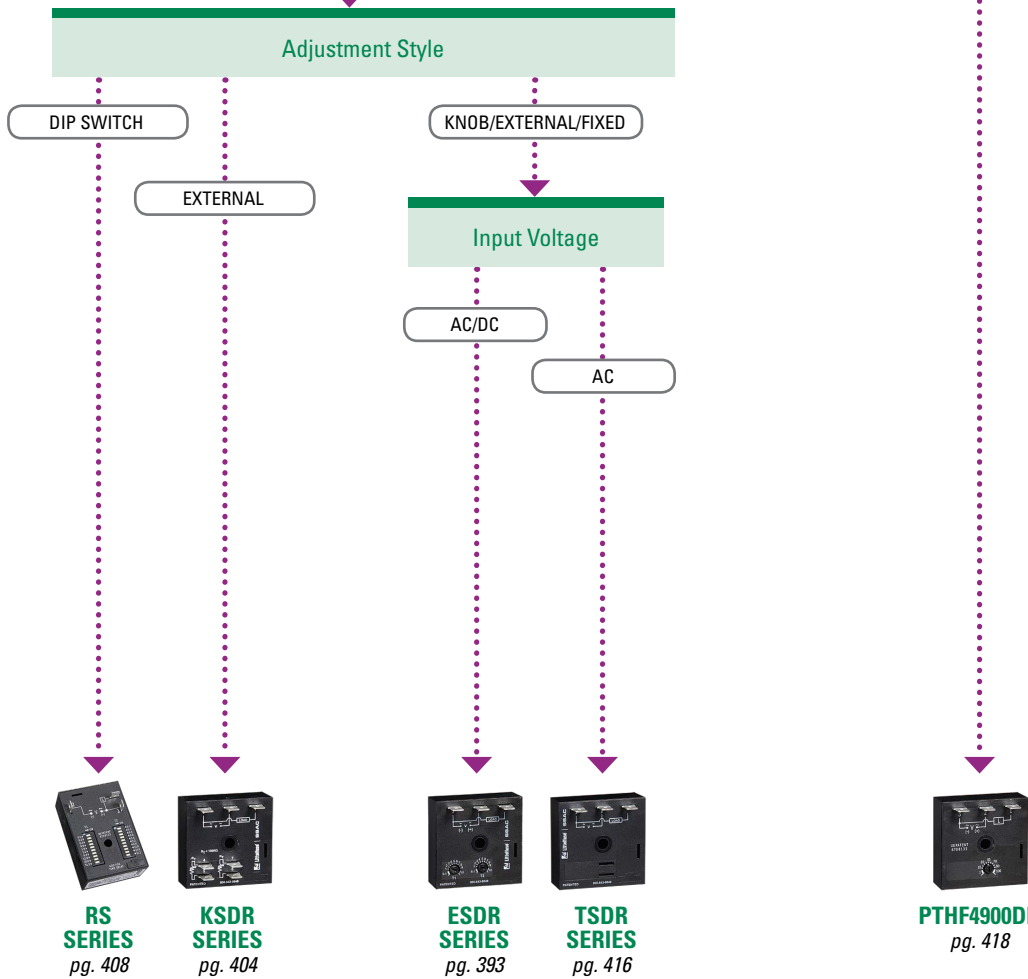
STEP 3 Find the recommended product for your application



DEDICATED — SINGLE FUNCTION

(Continued from previous page)

PERCENTAGE



RS SERIES
pg. 408

KSDR SERIES
pg. 404

ESDR SERIES
pg. 393

TSDR SERIES
pg. 416

PTHF4900DK
pg. 418

Recycling Timers

Percentage Timers

TIMERS



DEDICATED

Wide product offering to meet OEM and industrial requirements

DUAL FUNCTION

HVAC

COIN VENDING

DELAY-ON-MAKE/
DELAY-ON-BREAK

DELAY-ON-MAKE/
INTERVAL

Lockout Delay

Anti-short Cycle with Random Start

Anti-short Cycle with Random Start

Low Voltage Brownout Protection

Fan Delay



TDMB SERIES
pg. 420



ESD52233 SERIES
pg. 422



T2D120A15M SERIES
pg. 428



TSA141300
pg. 436



TA SERIES
pg. 430



TL SERIES
pg. 434



TAC1 SERIES
pg. 432



CT SERIES
pg. 426



HRV SERIES
pg. 437

Dedicated Timers – Dual Function

Dedicated Timers – HVAC

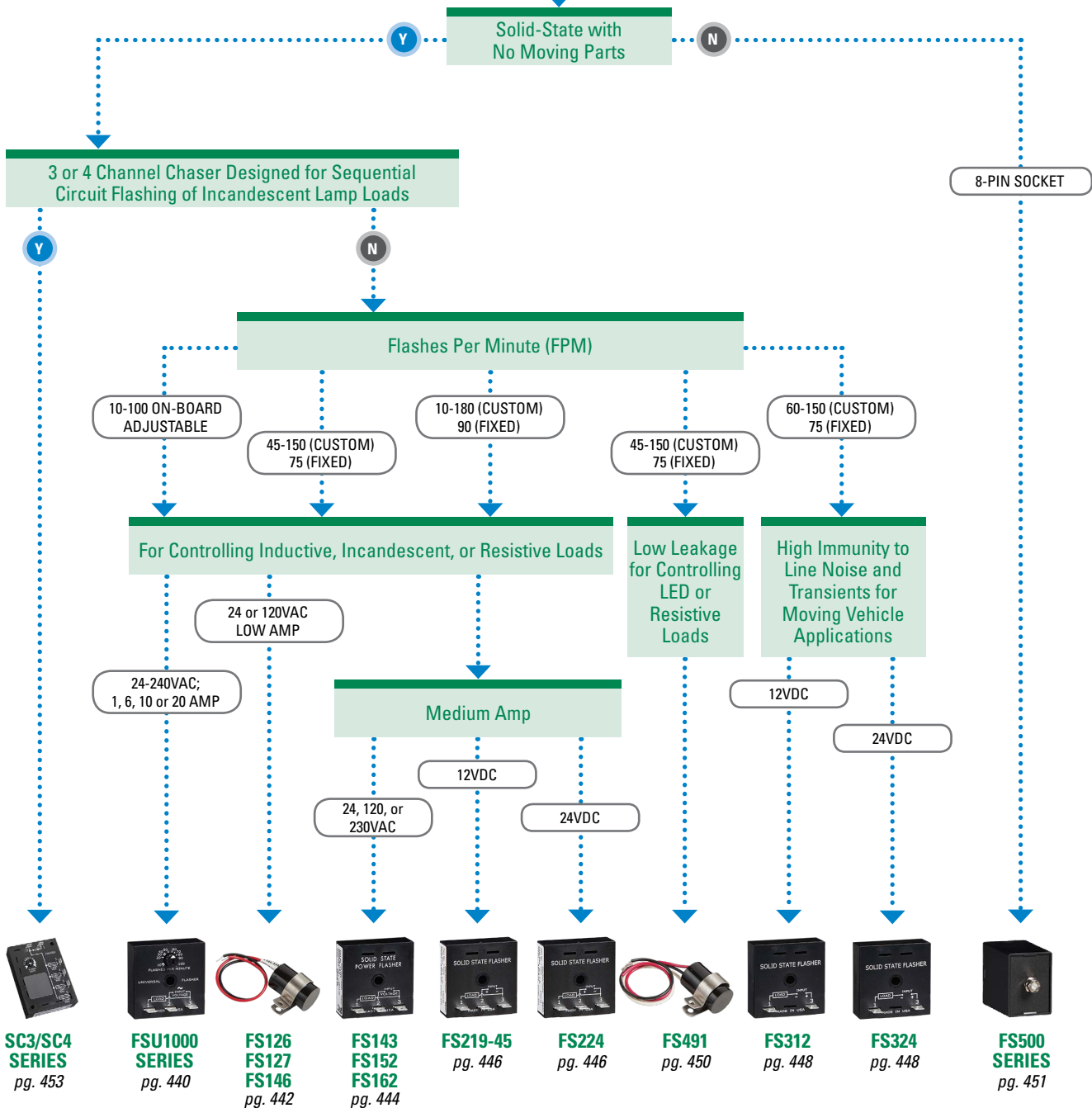
Dedicated Timers – Coin Vending

Page numbers beneath products refer to our Protection Relay & Controls Catalog available in print or online at www.littelfuse.com/relayscontrols/catalog



FLASHERS

Designed to cycle power to lamps and LEDs to turn them on and off repeatedly



Flashers



ALARM RELAYS

Monitors any failures in flashers & incandescent beacons, obstruction and universal lamps

FLASHER AND
INCANDESCENT BEACON

BEACON OR
OBSTRUCTION LAMP

UNIVERSAL LAMP

Used to Monitor
the Operation of
One Two-lamp
Incandescent
Beacon and One
Beacon Flasher

Used to Provide
Remote Monitoring
of Steady Burning
Incandescent
Marker and
Obstruction Lighting

Designed to Sense the Failure of Various Kinds of Lamps

FLASHING LED
BEACON LAMPS

BEACON LAMPS/
STEADY SIDE LIGHTS

FLASHING/STEADY
LED BEACON LAMPS/
OBSTRUCTION LAMPS



**FB
SERIES**
pg. 457



SCR490D
pg. 458



**SCR
SERIES**
pg. 459



FB9L
pg. 461



SCR9L
pg. 463

Alarm Relays



BEACON TOWER FLASHERS

Designed for use on communication towers, smoke stacks, cooling towers, tall buildings, bridges, and utility towers

FLASHER (OFF FIRST)

AUXILIARY MODULES



**FS
SERIES**
pg. 455



**FA
SERIES**
pg. 455

Beacon Tower Flashers

PHOTO CONTROL

Designed to meet the demands of the most vigorous requirement tower & obstruction lighting control. Factory calibrated to meet FAA and FCC specifications



**PCR
SERIES**
pg. 465

Photo Control

INDUSTRIAL SUCCESS STORIES



HVACR: Climate of Reliability

A major furnace manufacturer has a reputation for extreme environmental testing of their products before the design makes it to market. They know to trust the reliability of Littelfuse fuse, relay and timer components in their designs to provide the ultimate protection that stands up to rigorous testing. Our OEM customers rely on the Littelfuse reputation for making extreme reliability an everyday practice.



Manufacturing: Assembly of Protection

A brick manufacturing plant in the western United States processes clay into bricks and other building materials for residential and commercial projects. The Littelfuse SB6100 is installed between the MCC and the wet saws on the factory floor as shock protection for their workers. High-speed fuses and the PGR-8800 arc-flash relays are found in their switchgear for advanced circuit protection and improved worker safety from arc-flash incidents.



Oil & Gas: Refined Power Protection

Littelfuse industrial products such as ground-check monitors are used by one of the largest producers of crude oil from oil sands. Our high resistance grounding packages are found on oil and gas drilling rigs to reduce ground-fault troubleshooting time by 90%. Refineries producing 140,000 barrels a day rely on Littelfuse to protect their VFD drives from ground faults. Fracking firms depend on Littelfuse circuit protection for service mains and injection panels. Upstream, midstream, or downstream. No matter where safety is needed, Littelfuse is there to deliver reliable protection.



Mining: Power and Protection Run Deep

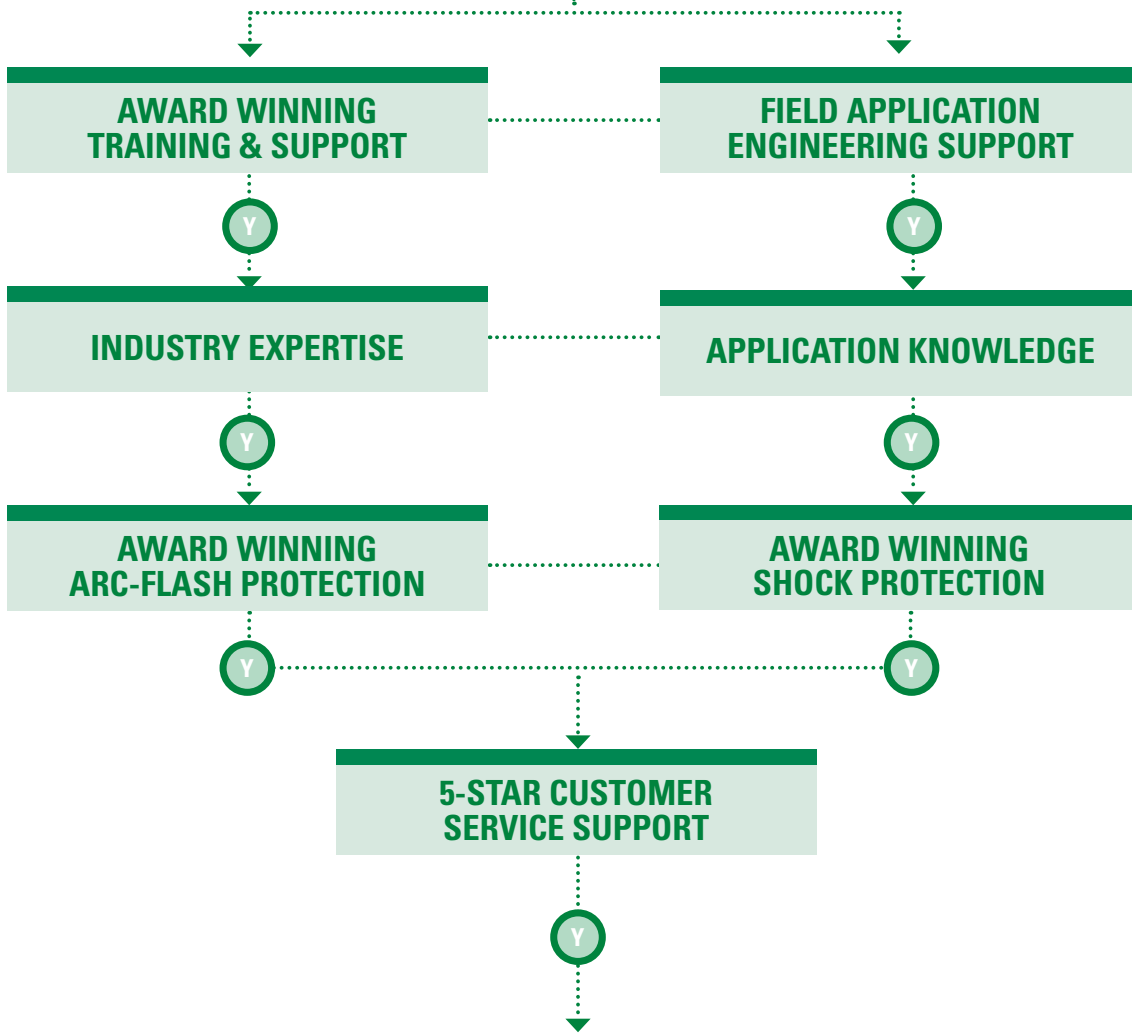
When the world's largest fertilizer company is mining for potash 1000 meters below the surface, they come to Littelfuse because of our reputation for quality and engineering expertise. There is no room for poor quality in mining. Littelfuse products are an integral part of the electrical systems that power and protect critical applications in the harshest underground and above ground mining environments. The world's top mining companies trust Littelfuse for custom power distribution centers, substations, switchgear, mining machine controls and protection relays.



Water/Wastewater: Reclaiming Productivity and Protection

One of the Top 200 Electrical Wholesalers recommends Littelfuse MotorSaver® and PumpSaver relays with confidence because it saved their customer from replacing a 200 hp motor valued at \$30,000. Their customer experienced a phase loss situation and thankfully had a MotorSaver 201A-AU installed on a motor in their treatment plant. The MotorSaver relay was a wise investment that saved the cost of the motor and kept the plant humming.

PARTNER SELECTION GUIDE



PROTECTING CRITICAL INDUSTRIAL APPLICATIONS



CONSTRUCTION



CONTRACTOR



FOOD & BEVERAGE



GENERAL INDUSTRIAL



HVAC/R



MINING



OEM



OIL & GAS



PANEL SHOP



PORTS & MARINA



WATER/WASTEWATER



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Littelfuse products are certified to many standards around the world. To check certifications on specific product please refer to the product datasheet on Littelfuse.com.

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