

Quick Selection Guide, Asia Pacific

Circuit Protection & Control Products



Powering Business Worldwide



Energizing a world that demands more.

We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

Discover today's Eaton.

Powering business worldwide

As a global diversified power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.

We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2013 sales of \$20.0 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.



Powering Business Worldwide

Circuit Protection &
Control Products



Eaton Circuit Protection & Control Product Family

Low Voltage Circuit Protection	2
Industrial Control	2

Low Voltage Circuit Protection

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Industrial Control

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Circuit Protection & Control Products Quick Selection Guide

Product Family Snapshot

Low Voltage Circuit Protection



IZMX Series Air Circuit Breakers



NZM Series Molded Case Circuit Breakers



LZM Series Molded Case Circuit Breakers

Industrial Control



Adjustable Frequency Drives



Control Relay EASY



EASY Safety Control Relay ES4P



Soft Start Controllers



SmartWire-DT®



XC PLC



M22 Pushbuttons and Indicating Lights



Position Switches LS

Circuit Protection & Control Products Quick Selection Guide

Product Family Snapshot



BZM Series Molded Case Circuit Breakers



Miniature Circuit Breaker



Surge Protection Device



Automatic Transfer Switches



Touch Display/PLC



Motor Protective Circuit Breaker



XTCG Contactor



Foot and Palm Switches FAK



XION Remote I/O Module



Motor Control and Protection



T Cam Switches



Signal Towers SL



Relays



Electronic Timing Relay DIL ET



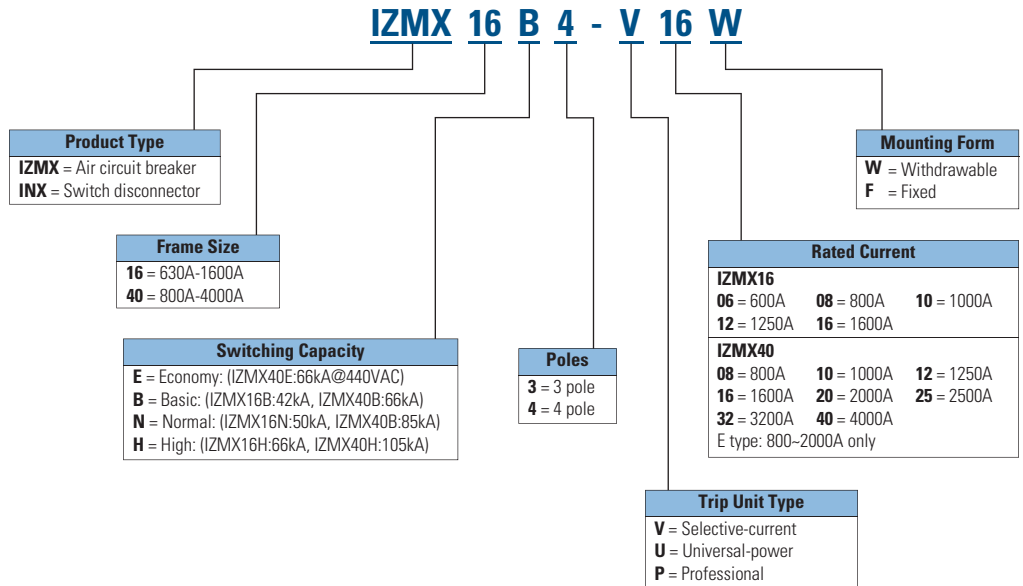
Circuit Protection & Control Products Quick Selection Guide

Air Circuit Breaker

IZMX Series



IZMX Series



Recommended Selection Examples

IZMX16 fixed 220VAC motorized example:

IZMX16B3-V16F	Fixed breaker, including 2a2b Aux contact
+IZMX-M16-230AD	220-240 VAC/DC Charging motor
+IZMX-ST230AD	220-240 VAC/DC Shunt trip
+IZMX-SR230AD	220-240 VAC/DC Closing spring release
+IZMX-AS22	Additional 2a2b Aux contact (4a4b total)
+IZMX-OTS	Over current trip switch(OTS) 2CO
IZMX-THV163	Main terminal adapter - horizontal
EASY400-POW	External power module to converter 220VAC to 24VDC to power trip unit

IZMX16 withdrawable 220VAC motorized example:

IZMX16B3-U16W	Withdrawable parent breaker, including 2a2b Aux contact
+IZMX-M16-230AD	220-240 VAC/DC Charging motor
+IZMX-ST230AD	220-240 VAC/DC Shunt trip
+IZMX-SR230AD	220-240 VAC/DC Closing spring release
+IZMX-AS22	Additional 2a2b Aux contact (4a4b total)
+IZMX-OTS	Over current trip switch(OTS) 2CO
+IZMX-CAS163-1600	Cassette(including interphase barriers and handle)
+IZMX-SH163	Safety shutters
IZMX-THV163	Main terminal adapter - horizontal
EASY400-POW	External power module to converter 220VAC to 24VDC to power trip unit

IZMX40 fixed 220VAC motorized example:

IZMX40B3-V16F	Fixed parent breaker, including 2a2b Aux contact
+IZMX-M40-230AD	220-240 VAC/DC Charging motor
+IZMX-ST230AD	220-240 VAC/DC Shunt trip
+IZMX-SR230AD	220-240 VAC/DC Closing spring release
+IZMX-AS22	Additional 2a2b Aux contact (4a4b total)
+IZMX-OTS	Over current trip switch(OTS) 2CO
IZMX-THV403-3200	Main terminal adapter – horizontal (3200A and below)
EASY400-POW	External power module to converter 220VAC to 24VDC to power trip unit

IZMX40 withdrawable 220VAC motorized example:

IZMX40B3-U16W	Withdrawable parent breaker, including 2a2b Aux contact
+IZMX-M40-230AD	220-240 VAC/DC Charging motor
+IZMX-ST230AD	220-240 VAC/DC Shunt trip
+IZMX-SR230AD	220-240 VAC/DC Closing spring release
+IZMX-AS22	Additional 2a2b Aux contact (4a4b total)
+IZMX-OTS	Over current trip switch(OTS) 2CO
+IZMX-CAS403-2000	Cassette(2000A and below)
+IZMX-SH403	Safety shutters
IZMX-THV403-3200	Main terminal adapter – horizontal (3200A and below)
EASY400-POW	External power module to converter 220VAC to 24VDC to power trip unit

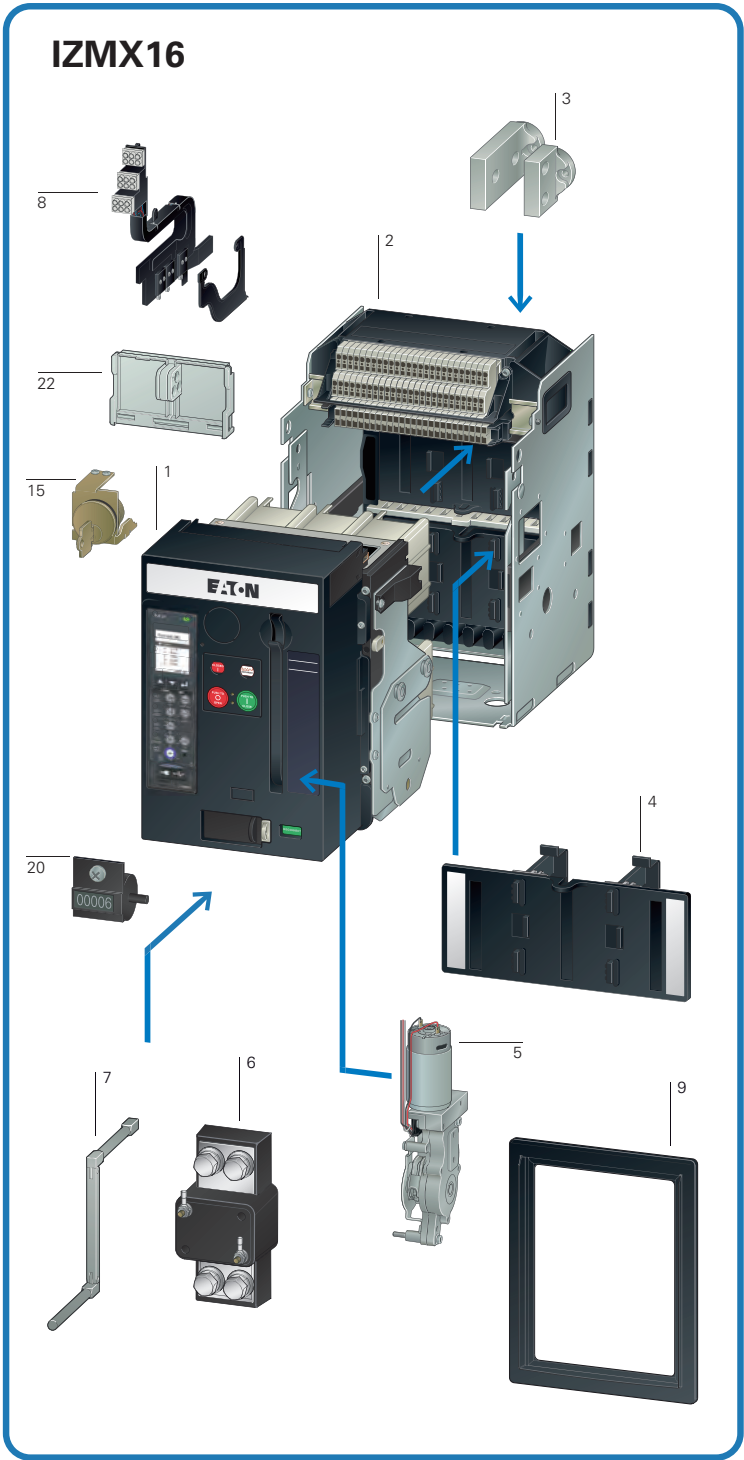
Option for ground fault protection:

- Add +IZMX-PXRV-G (V type trip unit) or +IZMX-PXRU-G(U type trip unit) for ground fault protection
- For 3-pole ACB, external neutral sensor is recommended for ground fault protection. Order IZMX-CT16-N(IZMX16) or IZMX-CT40-N(IZMX40)

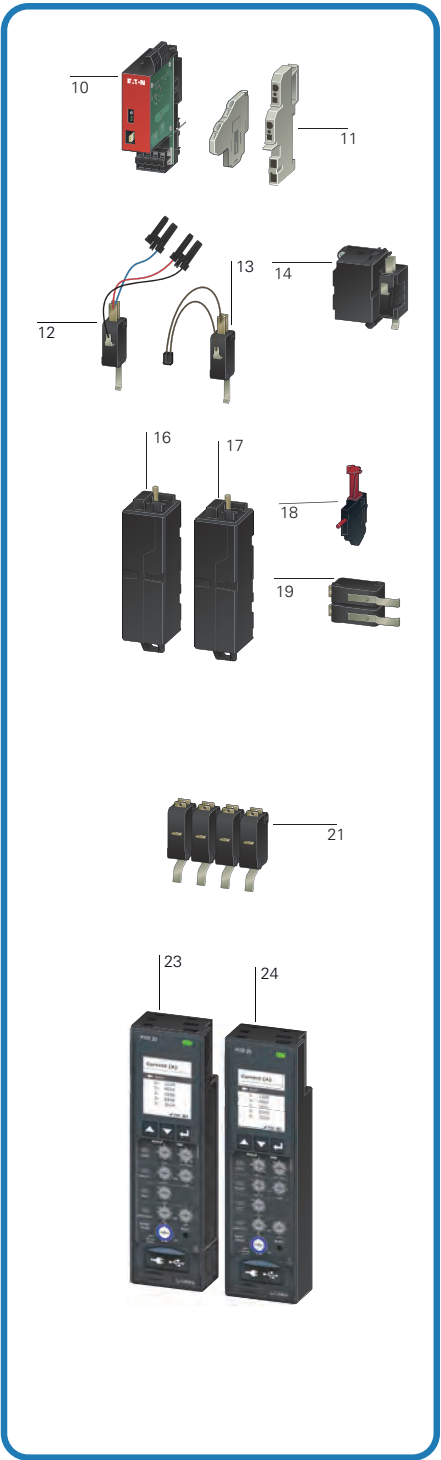
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Air Circuit Breaker

IZMX system overview



Unique parts and accessories for -IZMX16



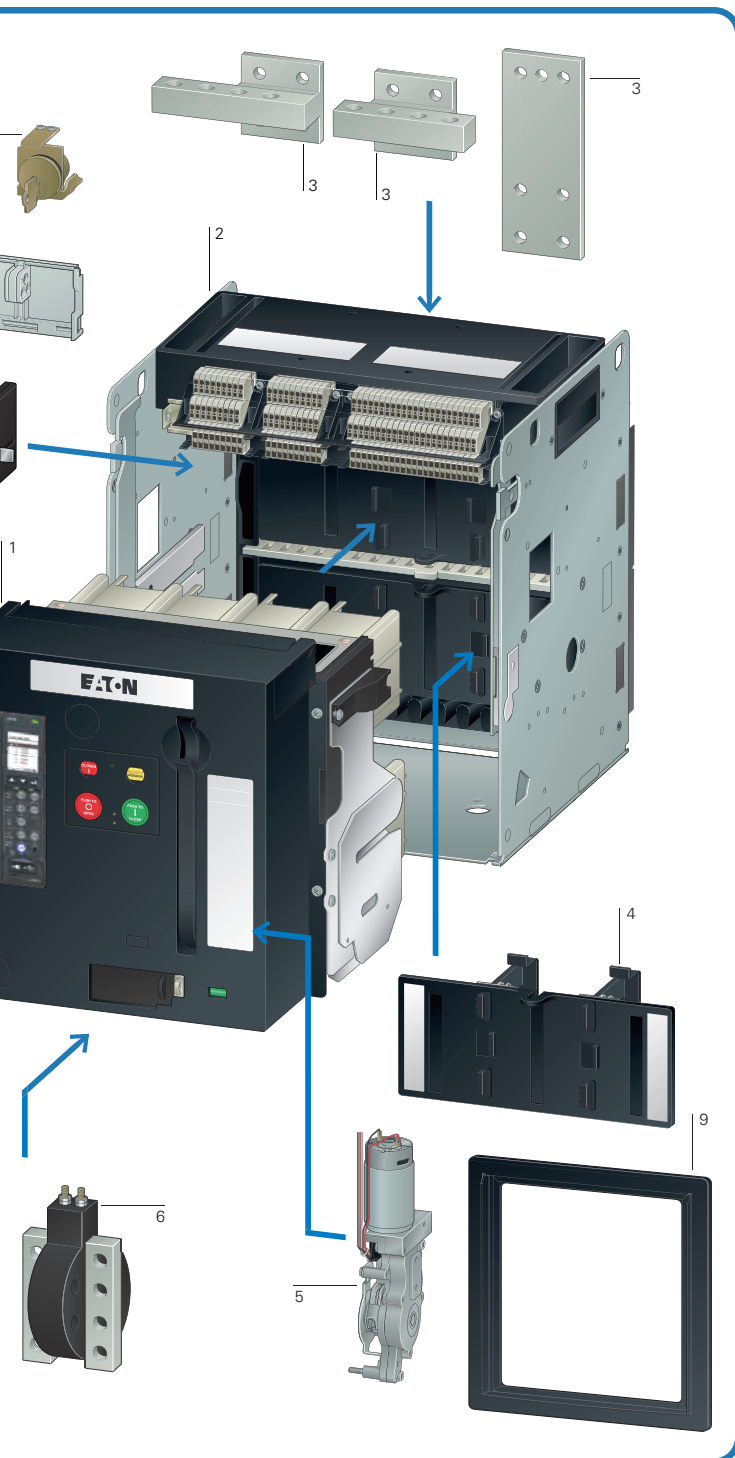
Interchangeable accessories between IZMX16 and IZMX40



Circuit Protection & Control Products Quick Selection Guide

Air Circuit Breaker

IZMX16, INX16, IZMX40, INX40



Unique parts and accessories for IZMX40

1 IZMX Circuit-breaker

IZMX16: 630 - 1600A
IZMX40: 800 - 4000A

2 Cassette for withdrawable units

+IZMX-CAS163-1600 X16, 1600A, 3P
+IZMX-CAS164-1600 X16, 1600A, 4P
+IZMX-CAS403-2000 X40, 2000A, 3P
+IZMX-CAS404-2000 X40, 2000A, 4P
+IZMX-CAS403-2500 X40, 2500A, 3P
+IZMX-CAS404-2500 X40, 2500A, 4P
+IZMX-CAS403-3200 X40, 3200A, 3P
+IZMX-CAS404-3200 X40, 3200A, 4P
+IZMX-CAS403-4000 X40, 4000A, 3P
+IZMX-CAS404-4000 X40, 4000A, 4P

3 Main terminal kits

Universal terminals, 3- and 4-pole
horizontal/vertical
IZMX-THV163 X16, 3P
IZMX-THV164 X16, 4P
IZMX-THV403-3200 X40, 3P, 3200A
IZMX-THV404-3200 X40, 4P, 3200A
IZMX-TH403 X40, 3P, 4000A, horizontal
IZMX-TV403 X40, 3P, 4000A, vertical
IZMX-TH404 X40, 4P, 4000A, horizontal
IZMX-TV404 X40, 4P, 4000A, vertical

4 Safety Shutter

+IZMX-SH163 X16, 3P
+IZMX-SH164 X16, 4P
+IZMX-SH403 X40, 3P
+IZMX-SH404 X40, 4P

5 Motor operator

Automatic charging of the spring force
storage for remote or local operations
+IZMX-M16-24DC X16, 24VDC
+IZMX-M16-110AD X16, 110VAC/DC
+IZMX-M16-230AD X16, 220VAC/DC
+IZMX-M40-24DC X40, 24VDC
+IZMX-M40-110AD X40, 110VAC/DC
+IZMX-M40-230AD X40, 110VAC/DC

6 Current sensor for neutral conductor

Current sensor for sensing the
neutral-conductor current.
IZMX-CT16-N X16
IZMX-CT40-N X40

7 Levering tool

Convenient collapsible lev-in tool for
lev-in and out operation of the Breaker
in and out of the Cassette. The lev-in
tool is stored inside the breaker.
Included in D/O breaker order

8 Position cell switches

Cell switch signals the position of the
breaker inside of the cassette.
Connect, Test and Disconnect Position.
IZMX-CS16-1 X16
IZMX-CS40-L X40, left
IZMX-CS40-R X40, right

9 Door escutcheon

Closes the gap between Breaker and
Switchgear-door.
IP41 included in breaker
For IP55:
IZMX-DC16-W X16
IZMX-DC40-W X40

10 Communication modules

External modules
IZMX-MCAM Modbus
IZMX-ECAM Ethernet
IZMX-PCAM Profibus DP

11 Control circuit terminal units

Modular design

12 Latch check switch

For external application
Usage
+IZMX-LCS

13 Latch check switch

For use with closing release.
+IZMX-LCS-SR

14 Closing releases

Closes the breaker by an electrical
signal.
+IZMX-SR24DC 24VDC
+IZMX-SR110AD 110AC/DC
+IZMX-SR230AD 220AC/DC

15 Key locking

Locking of the breaker by a keylock.
IZMX-KLP-SO-CES
IZMX-KLP-SO-KIRK
IZMX-KLP-SO-RONIS
IZMX-KLP-SO-CASTELL

16 Shunt releases

Opens the breaker by an electrical
signal.
+IZMX-ST24DC 24VDC
+IZMX-ST110AD 110VAC/DC
+IZMX-ST230AD 220VAC/DC

17 Undervoltage releases

Opens the breaker by a voltage-drop
in the control circuit.
+IZMX-UVR24DC 24VDC
+IZMX-UVR110AD 110VAC/DC
+IZMX-UVR220AD 220VAC/DC
+IZMX-UVR400AC 380VAC

18 Red-pop trip indicator

Red-pop trip indicator signals a trip
by the trip unit
Included in breaker with trip unit

19 Trip indicator switches

Overcurrent trip switch (OTS) signals
a trip by the trip unit.
+IZMX-OTS

20 Switching operations counters

Counts the number of operations.
+IZMX-OC

21 Auxiliary contacts

Signaling switch ON-OFF.
2a2b standard. 4a4b maximum for
IZMX16 and 12a12b for IZMX40
+IZMX-AS22 X16/X40, add 2a2b
+IZMX-AS44 X40, add 4a4b
+IZMX-AS66 X40, add 6a6b
+IZMX-AS88 X40, add 8a8b
+IZMX-AS1010 X40, add 10a10b

22 Locking facilities

Plastic or metal
IZMX-PLPC16-P X16, plastic
IZMX-PLPC16-M X16, metal
IZMX-PLPC40-P X40, plastic
IZMX-PLPC40-M X40, metal

23 Trip unit

PXR20, V-type, current metering
C - Onboard Modbus
G - Ground fault protection
M - Arcflash Reduction Maintenance
System™
+IZMX-PXRV-C
+IZMX-PXRV-G
+IZMX-PXRV-GC
+IZMX-PXRV-GM
+IZMX-PXRV-GMC

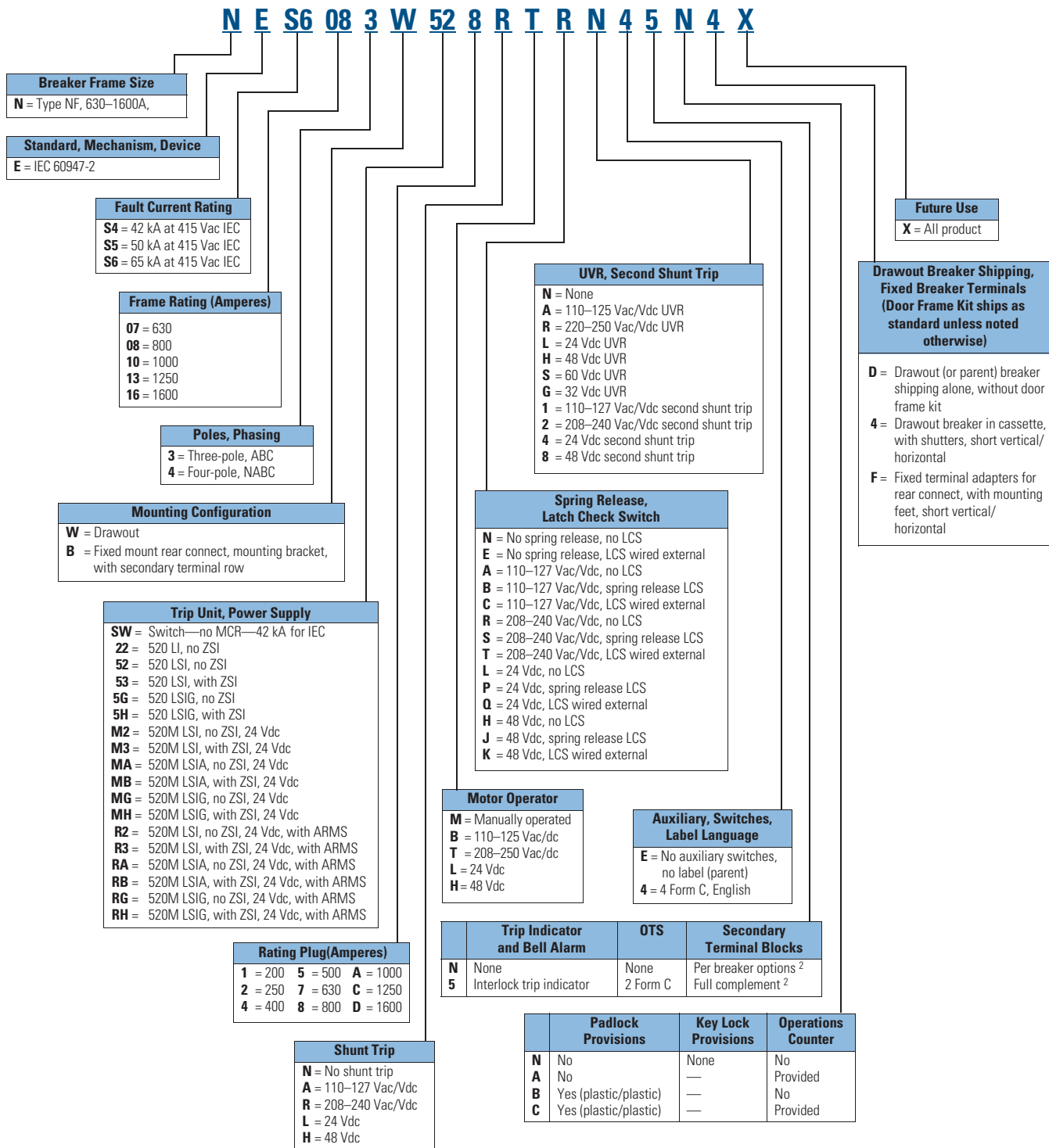
24 Trip unit

PXR25, U-type, power metering
+IZMX-PXRU-G
+IZMX-PXRU-M
+IZMX-PXRU-GM

Circuit Protection & Control Products Quick Selection Guide

Air Circuit Breaker

IZM Series NES Type*

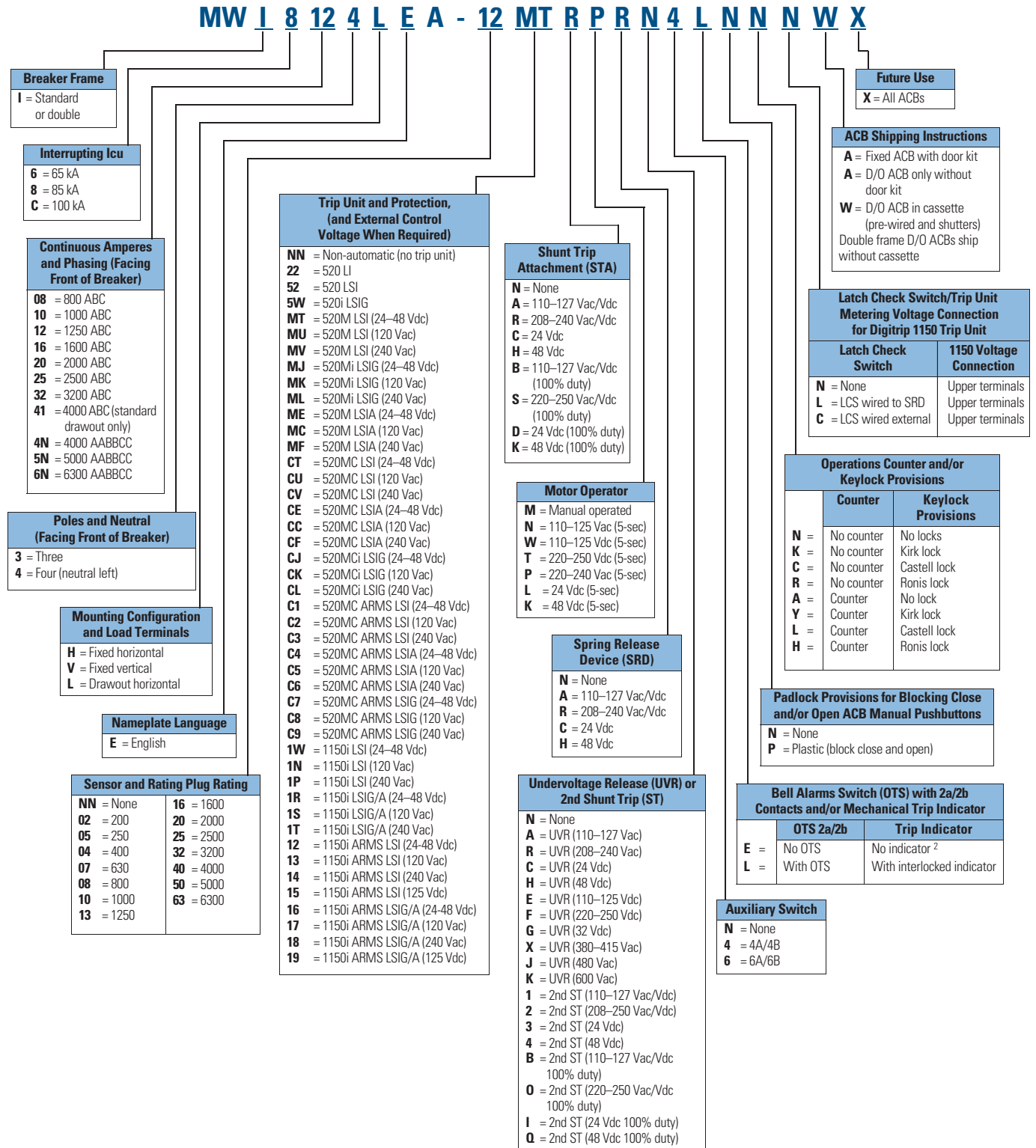


* IZM series NES type air circuit breaker will be phased-out by Dec 31st 2015 and be replaced by IZMX series"

Circuit Protection & Control Products Quick Selection Guide

Air Circuit Breaker

I ZM Series MWI Type*



* IZM series MWI type air circuit breaker will be phased-out by Dec 31st 2015 and be replaced by IZMX series*

Note

¹ Exclusionary rules apply. Refer to price list. Confirm all final part numbers with Eaton. Format structure subject to modifications and additions without notice.

² Position 20, ACB (with digitrip) must choose "L", switch-disconnector must choose "E".

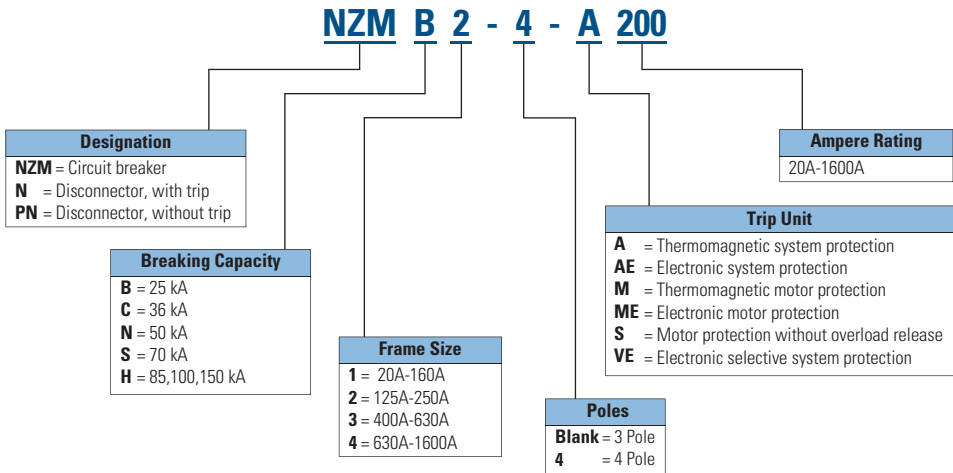
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Molded Case Circuit Breaker

NZM Series



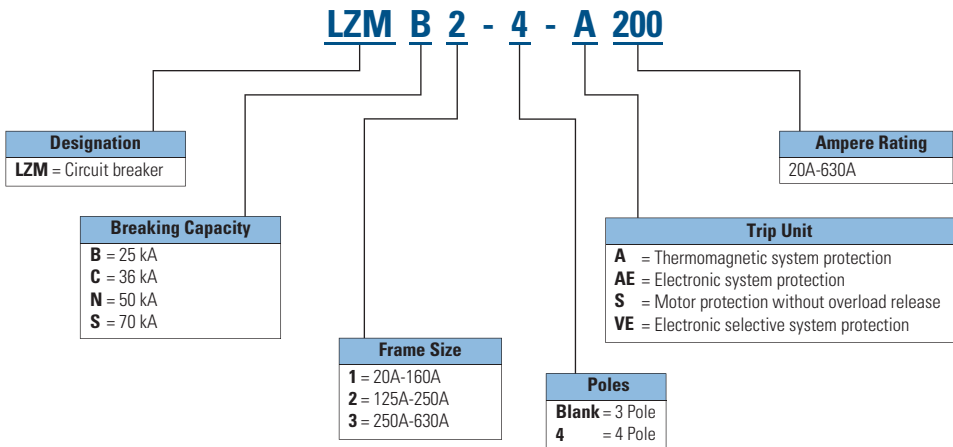
NZM Series Molded Case Circuit Breaker



LZM Series



LZM Series Molded Case Circuit Breaker



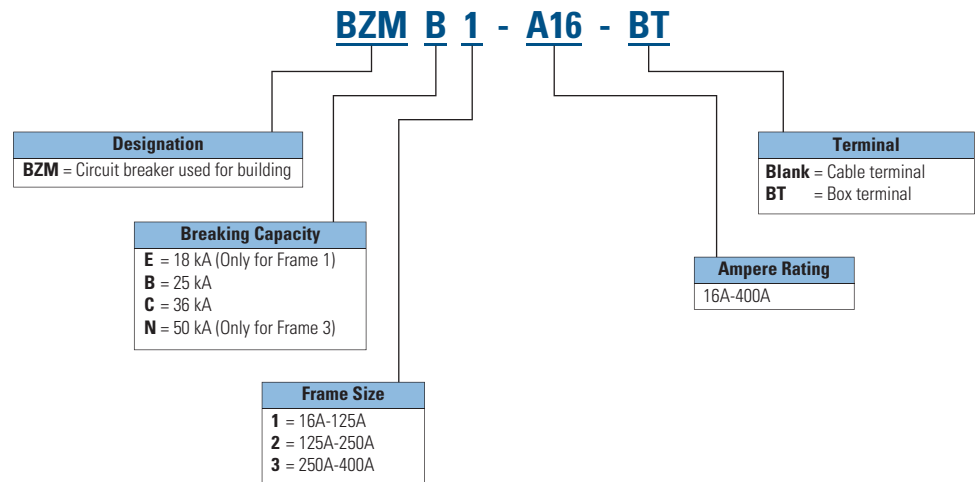
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Molded Case Circuit Breakers / Miniature Circuit Breakers

BZM Series



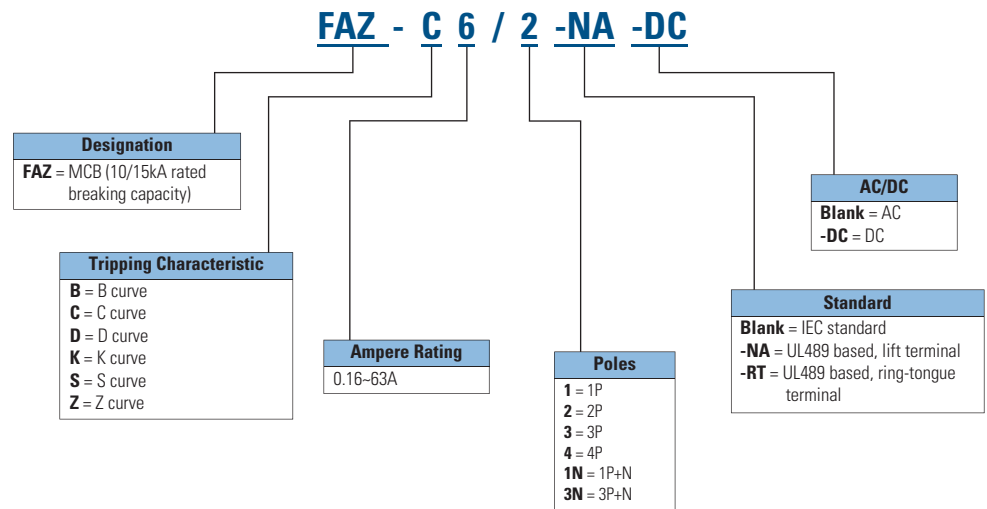
BZM Series Molded Case Circuit Breaker



FAZ Miniature Circuit Breaker



FAZ Miniature Circuit Breaker



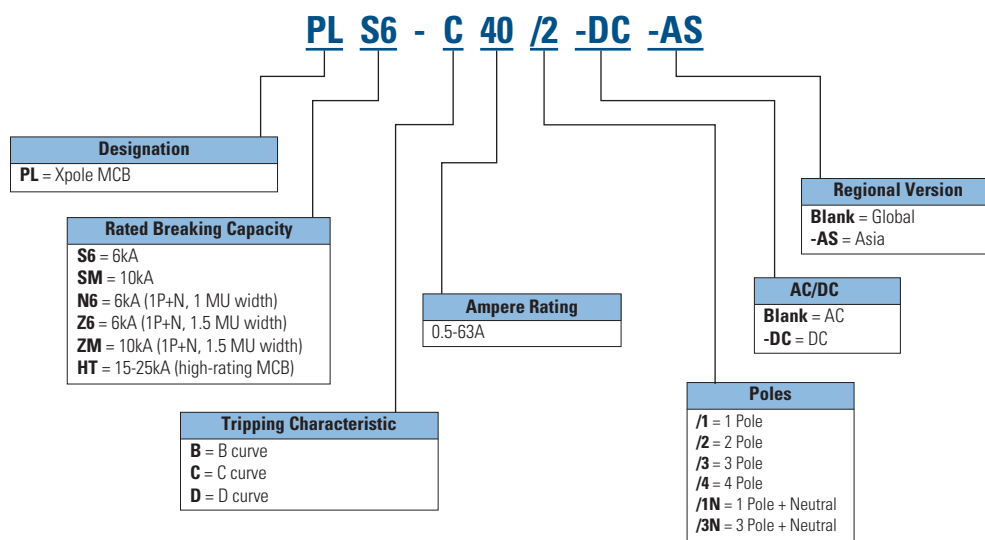
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Miniature Circuit Breakers

Xpole Miniature Circuit Breaker



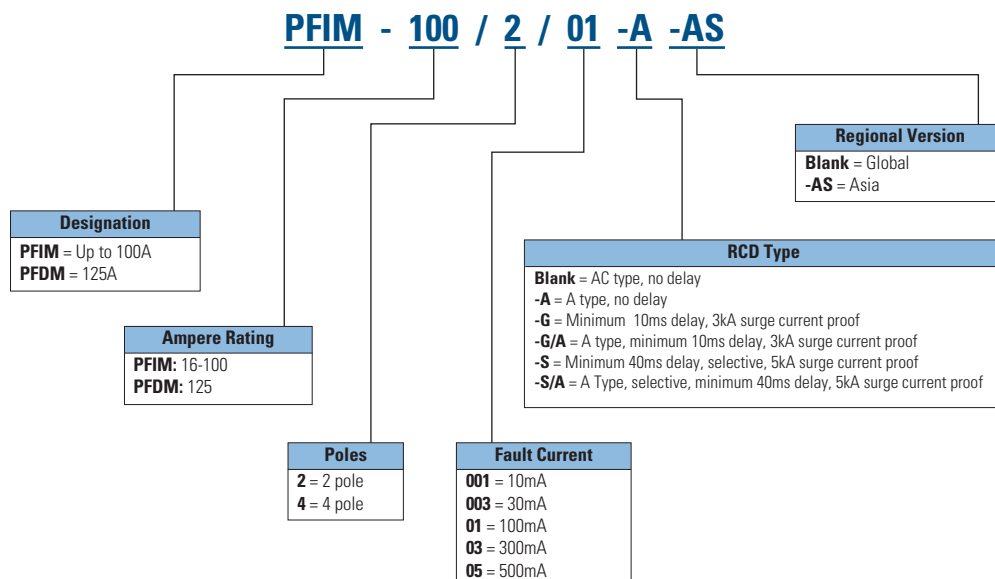
Xpole Miniature Circuit Breaker



Xpole Residual Current Device (RCCB)



Xpole Residual Current Device (RCCB)



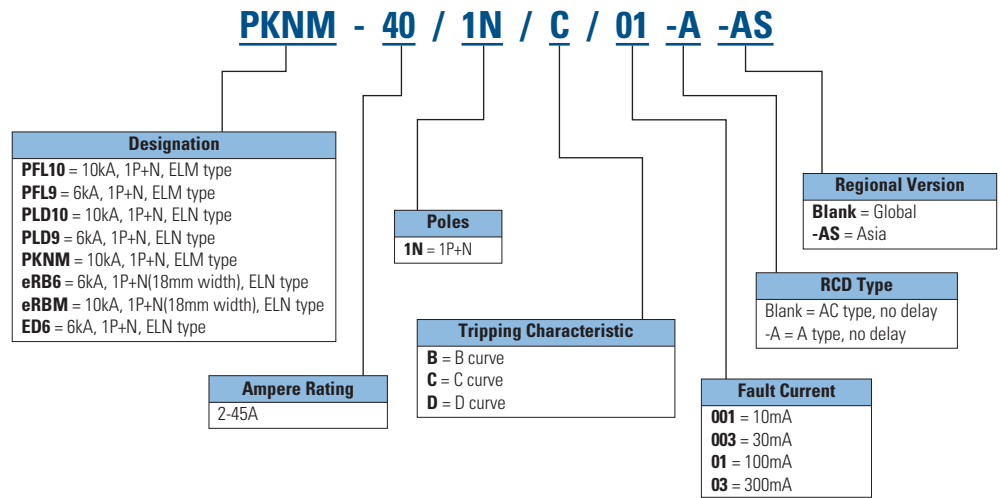
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Miniature Circuit Breakers

Xpole Residual Current Device (RCBO)



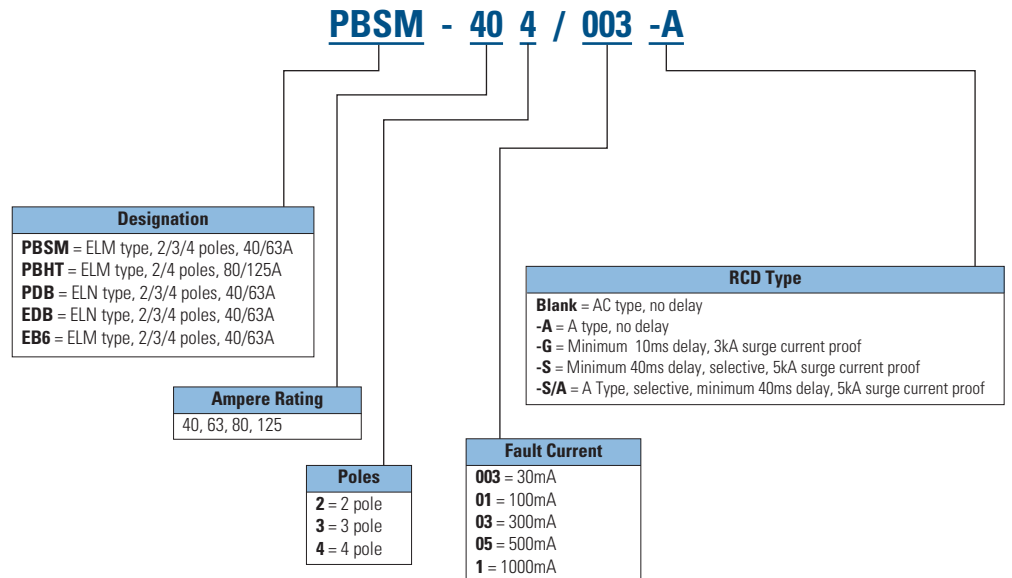
Xpole Residual Current Device (RCBO)



Xpole Residual Current Device (RCD)



Xpole Residual Current Device (RCD)



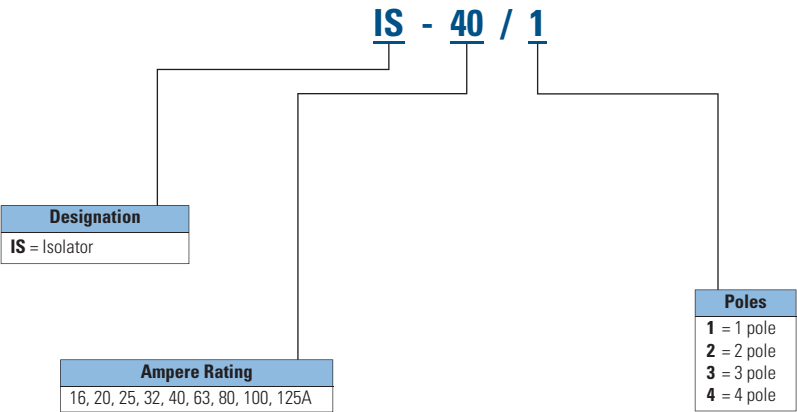
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Miniature Circuit Breakers

Xpole Main Load Disconnect Switch (Isolator)



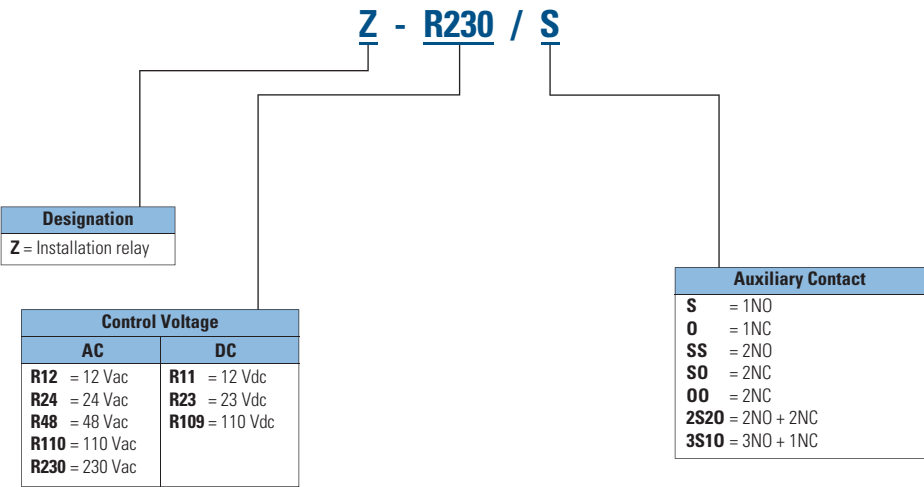
Xpole Main Load Disconnect Switch (Isolator)



Xpole Z-R Installation Relay



Xpole Z-R Installation Relay



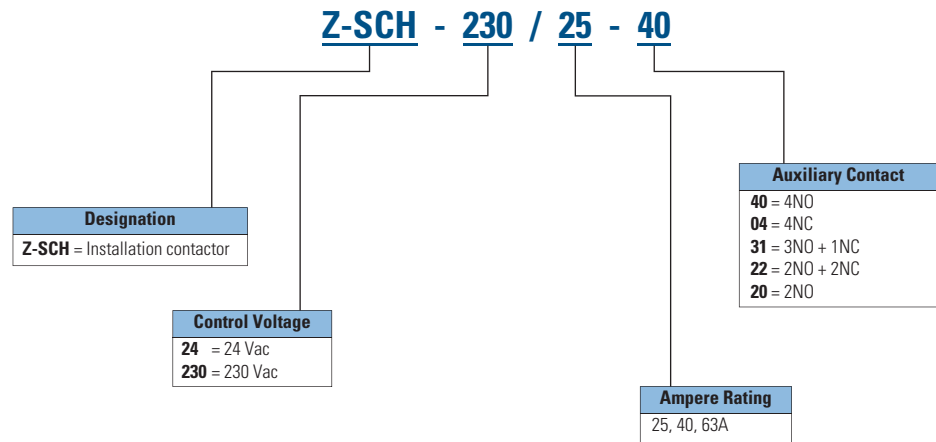
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Miniature Circuit Breakers / Surge Protection Device

Xpole Z-SCH Installation Contactor



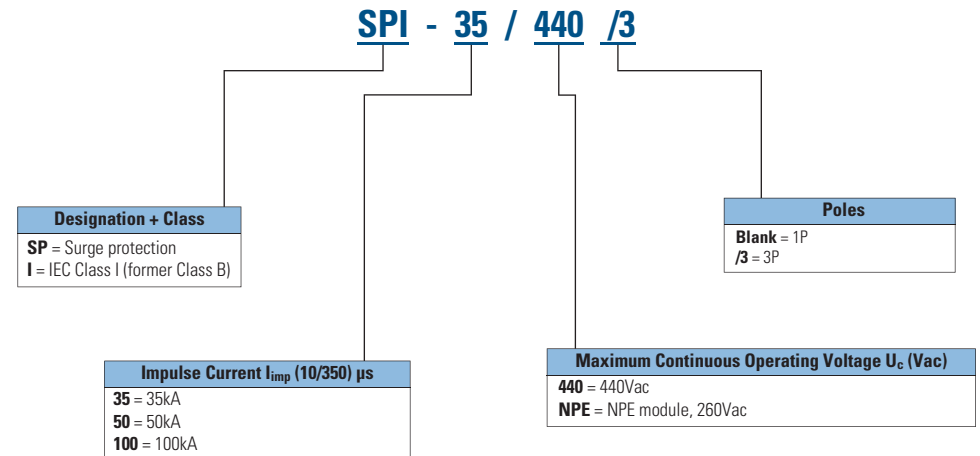
Xpole Z-SCH Installation Contactor



Surge Protection Device (SPD)—SPI



Surge Protection Device (SPD)—SPI



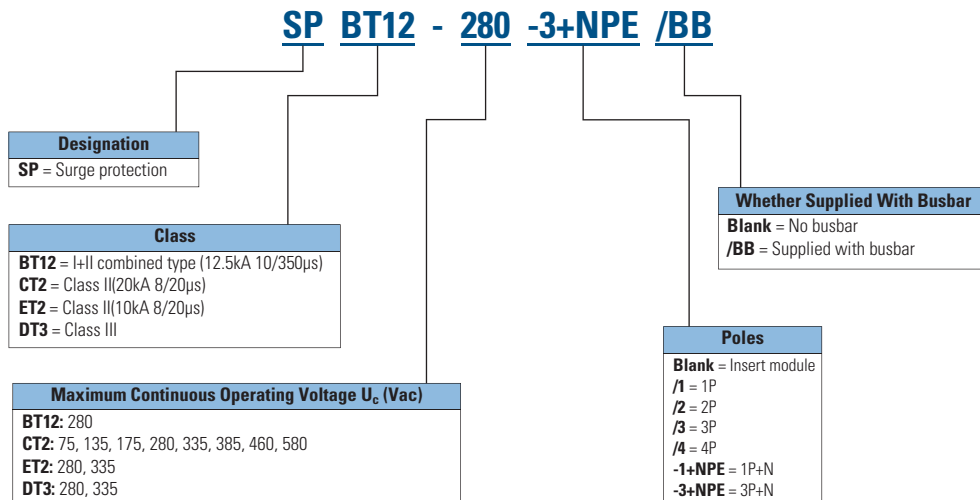
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Surge Protection Device

Surge Protection Device (SPD)— SPB/SPC/SPD/SPE



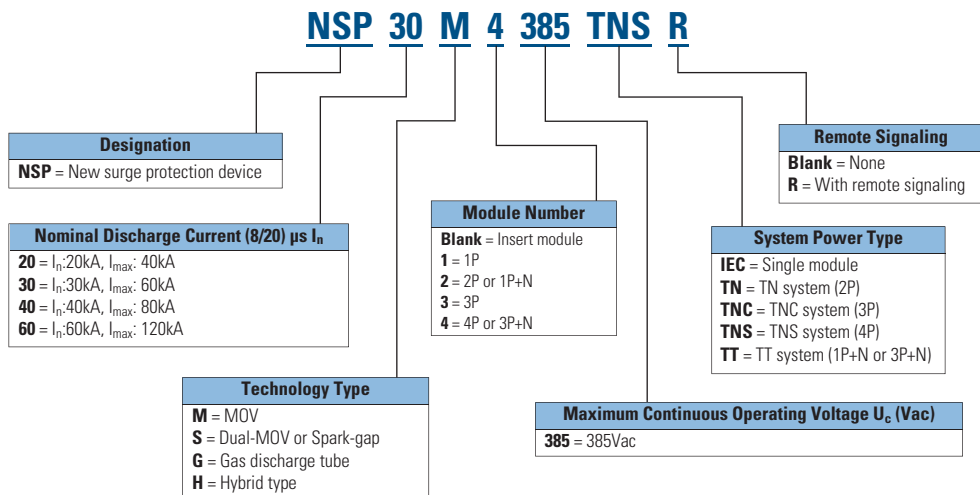
Surge Protection Device (SPD)—SPB/SPC/SPD/SPE



NSP Series SPD



NSP Series Surge Protection Device



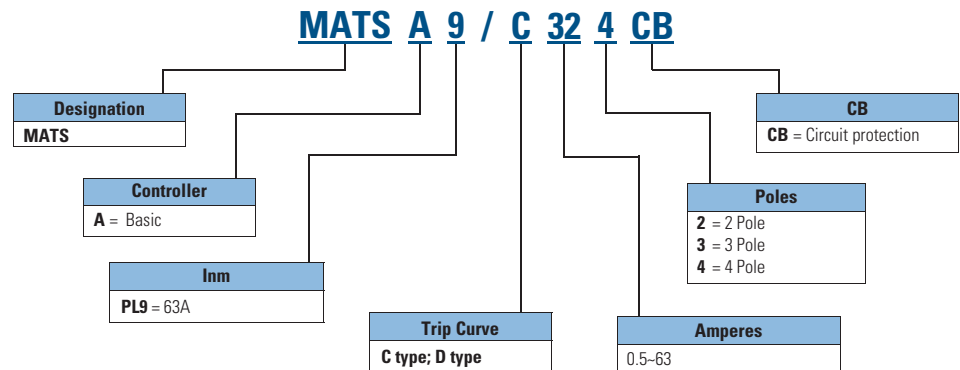
Circuit Protection & Control Products Quick Selection Guide

Automatic Transfer Switch

MATS Series ATS



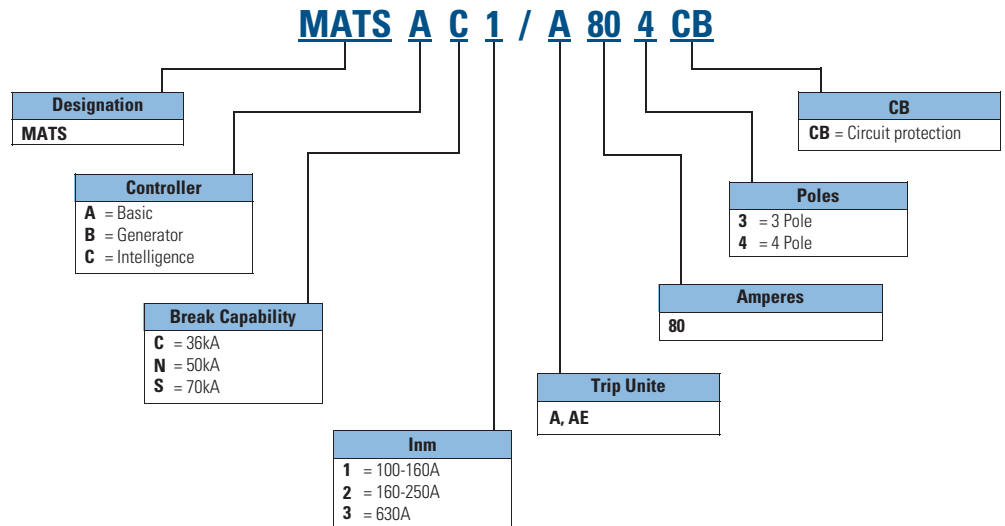
MATS Automatic Transfer Switch (MCB based)



MCB Selection Guide

- Breaker: PL9, 6kA;
- Trip curve: C type or D type;
- Amperes: 0.5, 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A;
- Controller: A type only.

MATS Automatic Transfer Switch (MCCB based)



MCB Selection Guide

- Controller: A, B, C;
- Break: LZM;
- Inm: 1: 160A, 2: 250A, 3: 630A;
- Break capability: C-36kA, N-50kA, S-70kA;
- Protective unite: A: Thermomagnetic trip;
AE: Electronic tripping device;
- Amperes: 1: 20, 25, 32, 40, 50, 63, 80, 100, 125, 160A;
2: 160, 200, 250A;
3: 320, 400, 500, 630A.

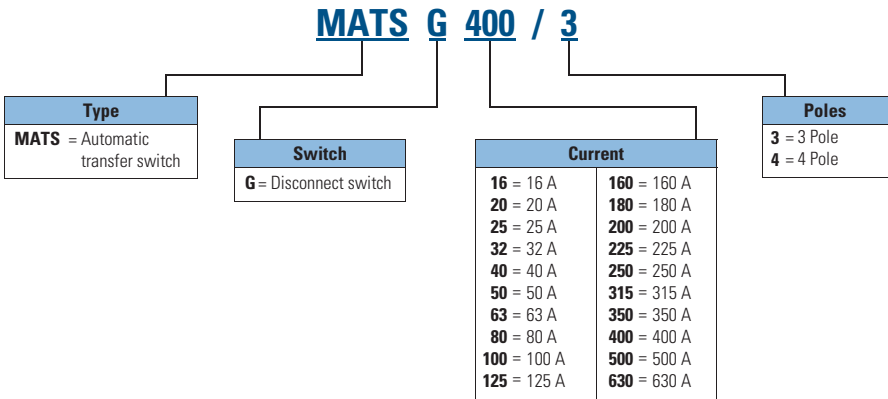
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Automatic Transfer Switch

MATS Series Automatic Transfer Switch (Disconnect based)



MATS Series Automatic Transfer Switch (Disconnect based)



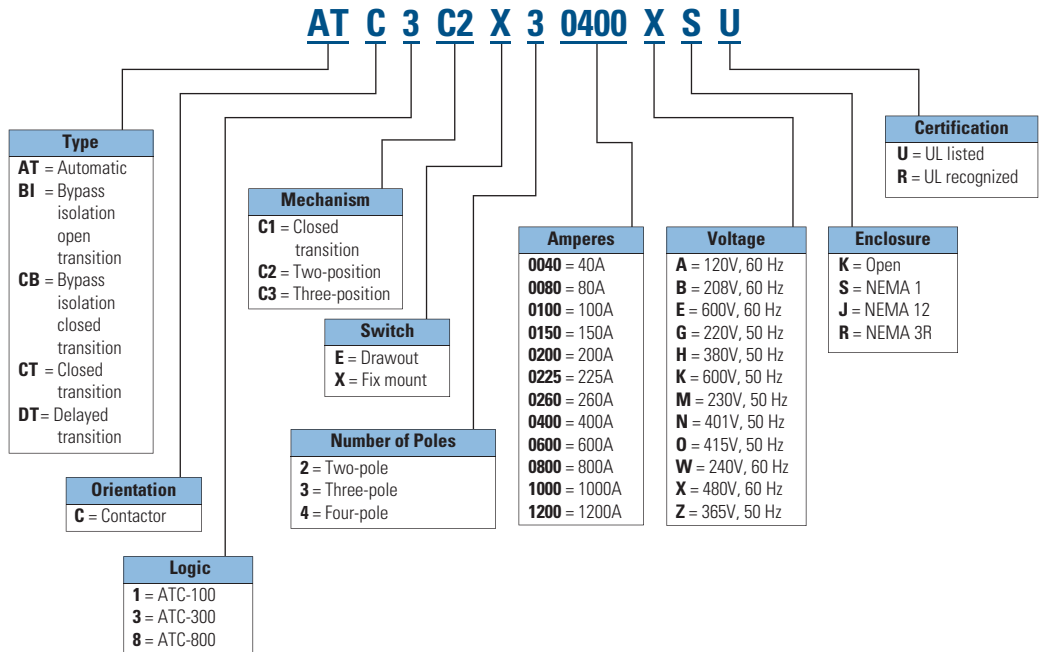
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Automatic Transfer Switch

Contactor-based Automatic Transfer Switch



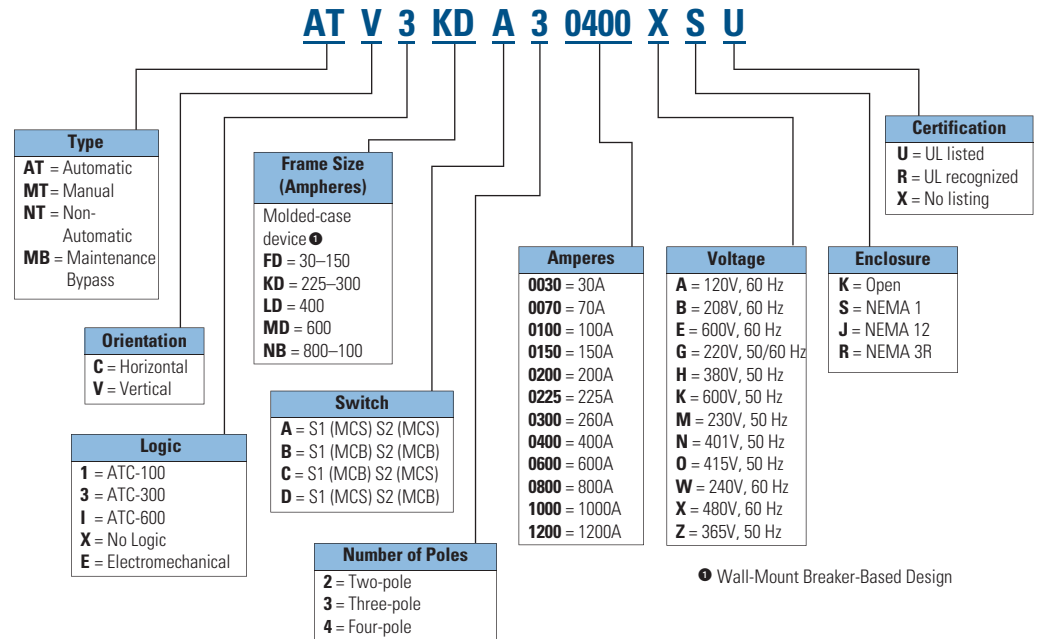
Contactor-based Automatic Transfer Switch



Industrial Molded-Case Transfer Switch



Industrial Molded-Case Transfer Switch



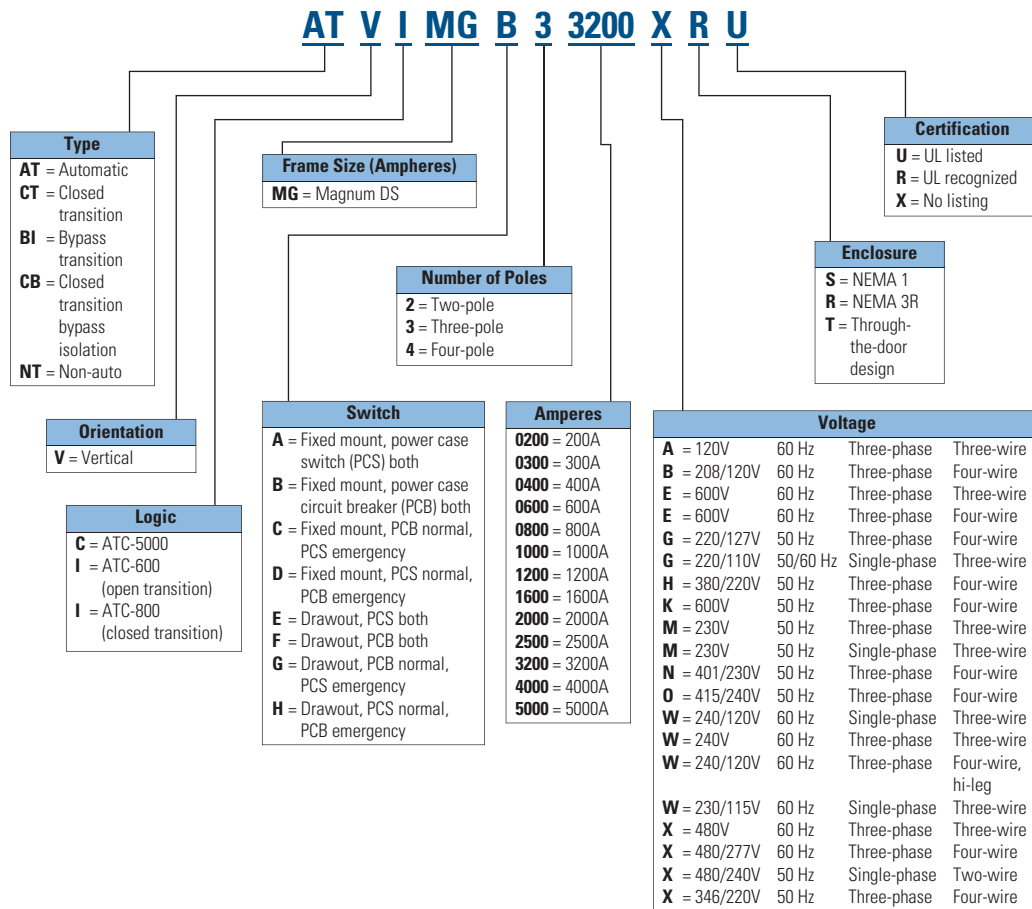
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Automatic Transfer Switch

Magnum-based Transfer Switches



Magnum-based Transfer Switches



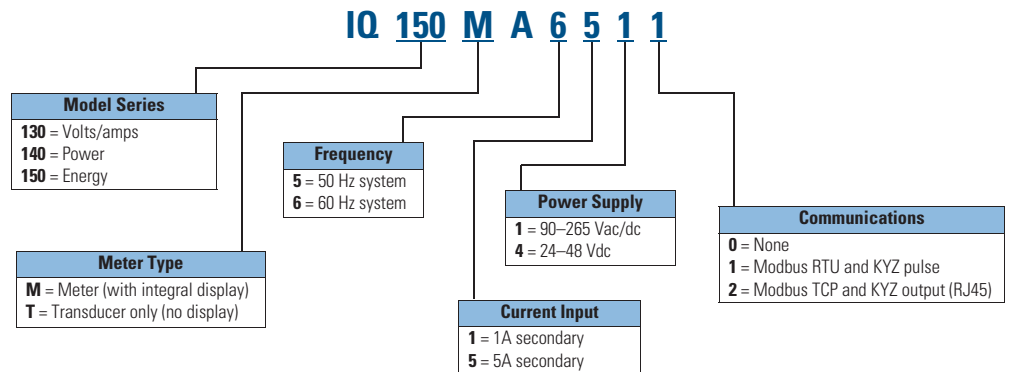
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Metering Devices

IQ130/140/150 Meter



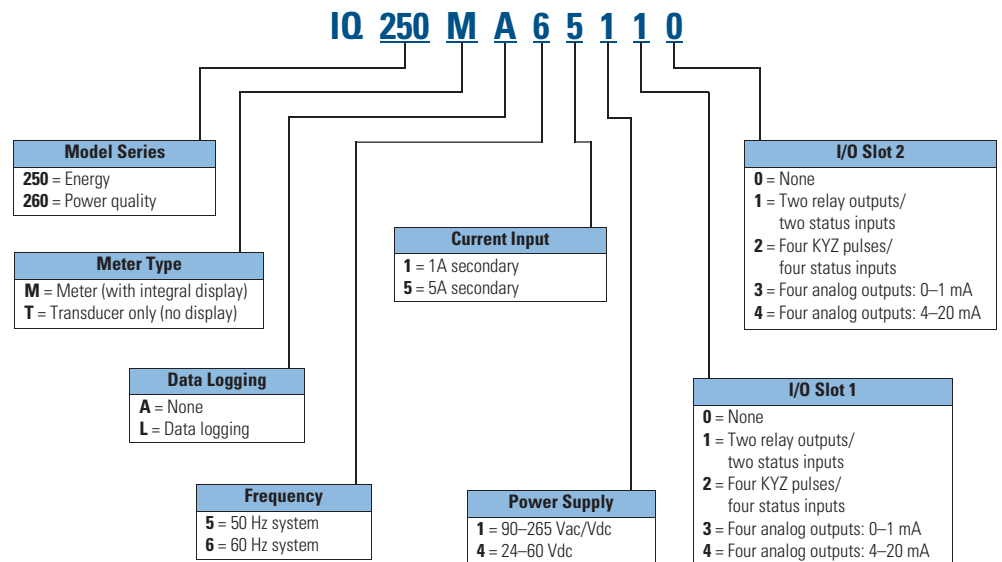
IQ130/140/150 Meter



IQ 250/260 Meter



IQ 250/260 Meter



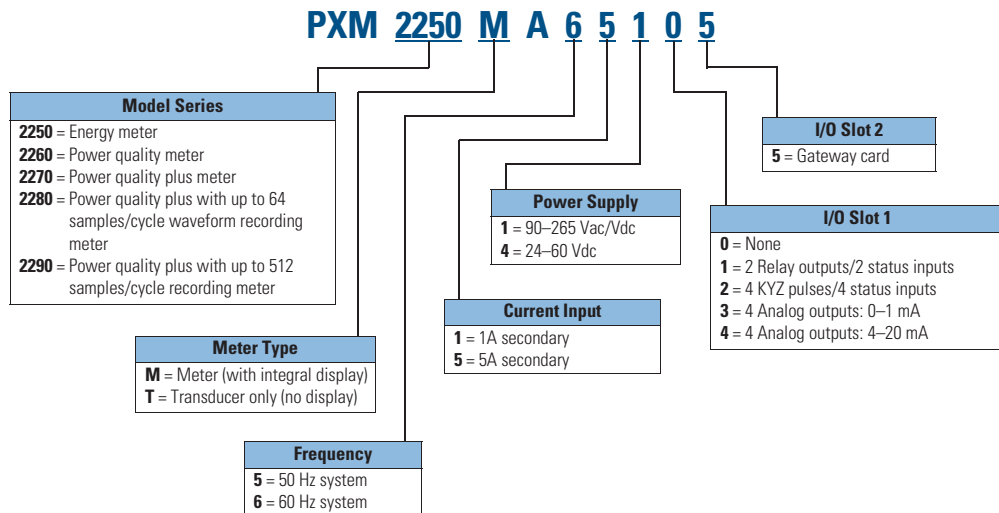
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Metering Devices

Power Xpert Meter 2000



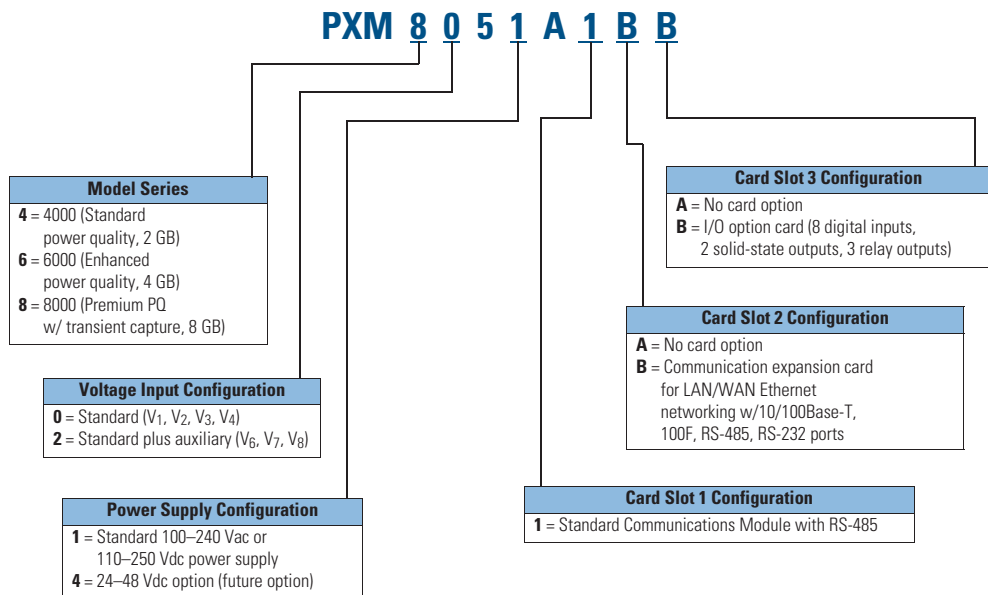
Power Xpert Meter 2000



Power Xpert Meter 4000/6000/8000



Power Xpert Meter 4000/6000/8000



Example 1: **PXM8251A5BB** (PXM 8000 meter, w/ VAUX, std. pwr., com. exp. and I/O cards)

Example 2: **PXM6251A6BA** (PXM 6000 meter, w/ VAUX, std. pwr., com. exp. card)

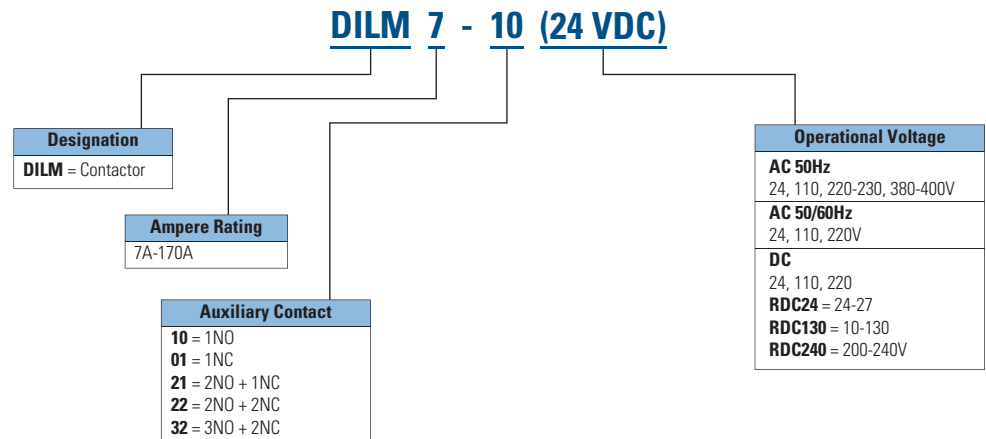
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xStart Series Motor Control & Protection

DILM Contactor (up to 170A)



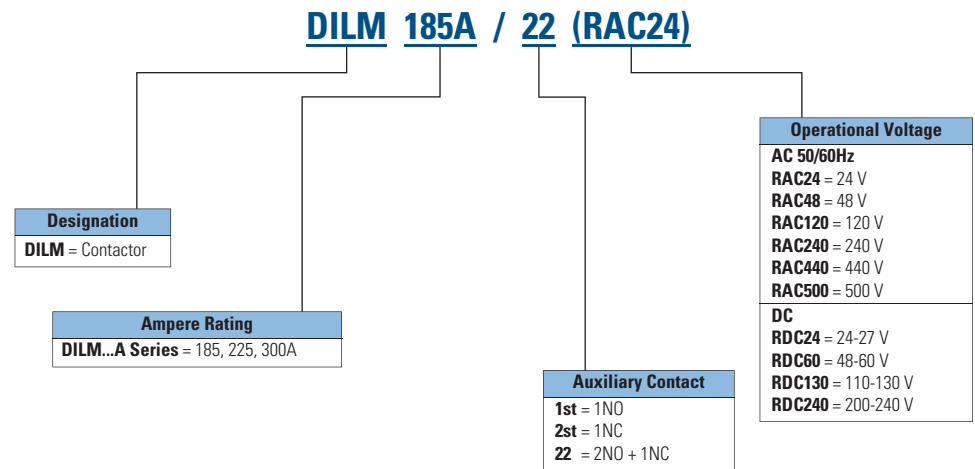
DILM Contactor (up to 170A)



DILM Large Contactor (185~300A)



DILM Large Contactor (185~300A)



Circuit Protection & Control Products Quick Selection Guide

xStart Series Motor Control & Protection

DILM/DILH Large Contactor



DILM/DILH Large Contactor

DILM 400 - S / 22 (110-120 V 50/60 Hz)

Designation
DILM, DILH = Large contactor

Ampere Rating
DILM Series = 400 to 820A
DILH Series = (AC-1)1400 to 2600A

Product Family
Blank = Advanced type
S = Standard type

Auxiliary Contact
1st = 1NO
2st = 1NC
22 = 2NO + 1NC

Operational Voltage
AC 50/60Hz 110-120 V, 220-240 V
AC 40-60Hz RAC500 = 250-500 V
DC RDC48 = 24-48 V
AC/DC RA110 = 48-110 V 40-60 Hz/ 48-110 DC
RA250 = 110-250 V 40-60 Hz/ 110-250 DC
RAW250 = 230-250 AC/DC

ZB Overload Relay



ZB Overload Relay

ZB 12 - 10

Designation
ZB = Overload relay

Frame Size
12: Frame I = 0.1-16A
32: Frame II = 0.1-38A
65: Frame III = 6-75A
150: Frame IV = 25-175A

Ampere Rating
0.1A-175A

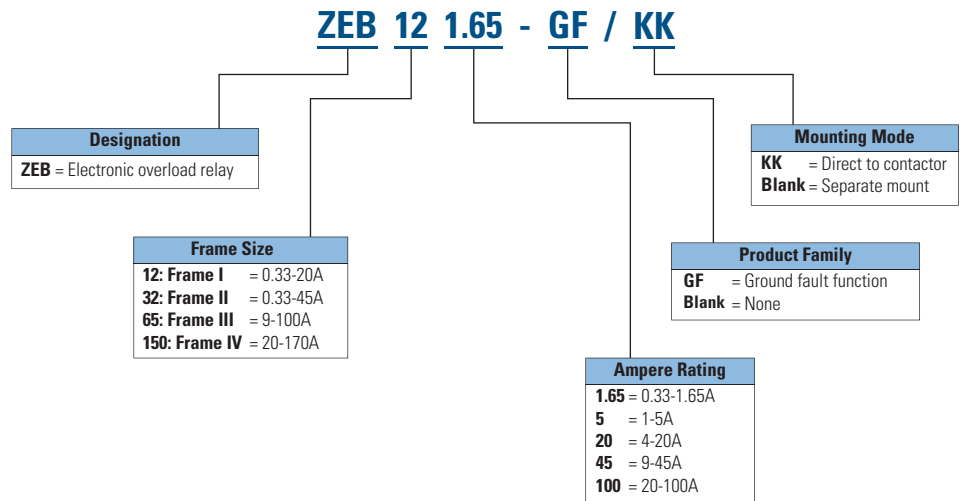
Circuit Protection & Control Products Quick Selection Guide

xStart Series Motor Control & Protection

ZEB Overload Relay



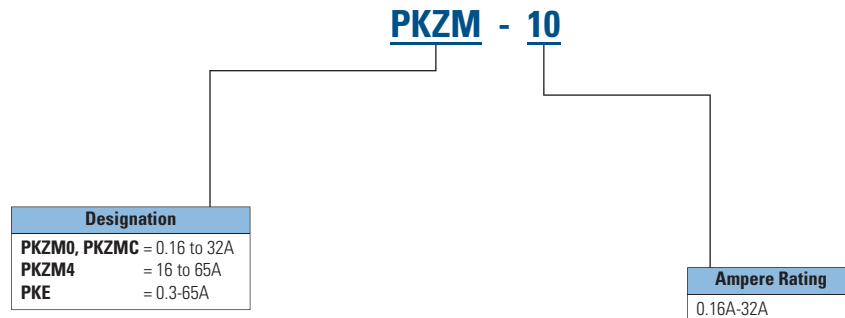
ZEB Overload Relay



PKZ Motor Protective Circuit Breaker



PKZ Motor Protective Circuit Breaker



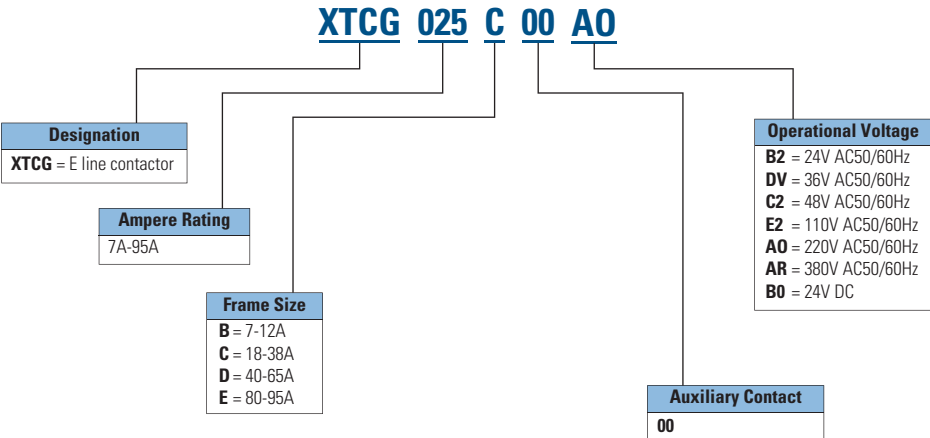
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E Line Series Motor Control & Protection

XTCG Contactor



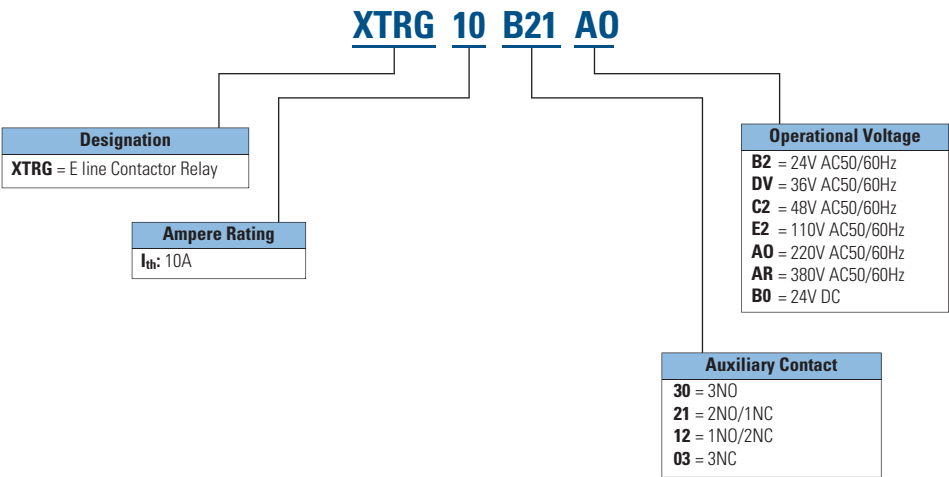
XTCG Contactor



XTRG Contactor Relay



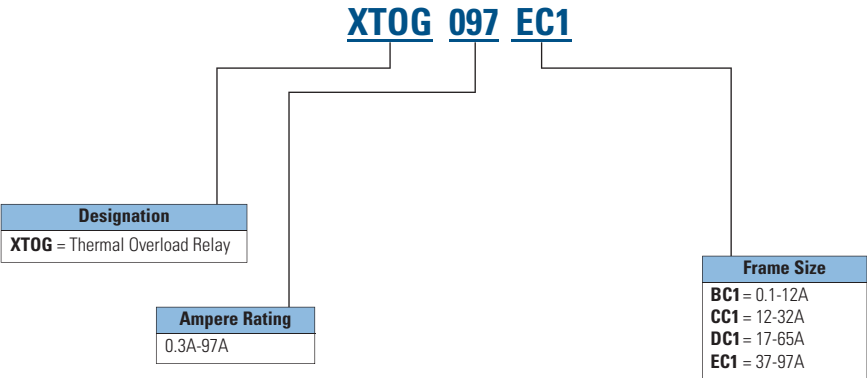
XTRG Contactor Relay



XTOG Overload Relay



XTOG Overload Relay



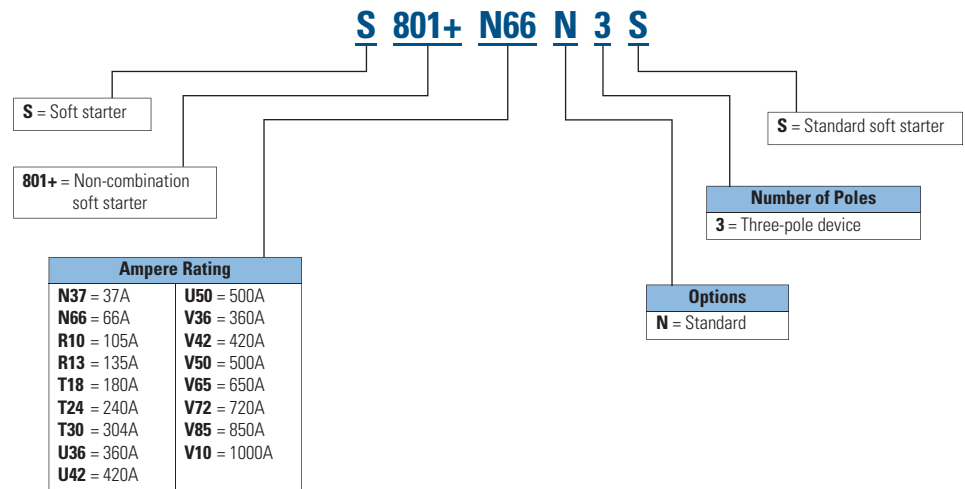
Circuit Protection & Control Products Quick Selection Guide

Soft Start Controllers

S801+ Open Soft Starters



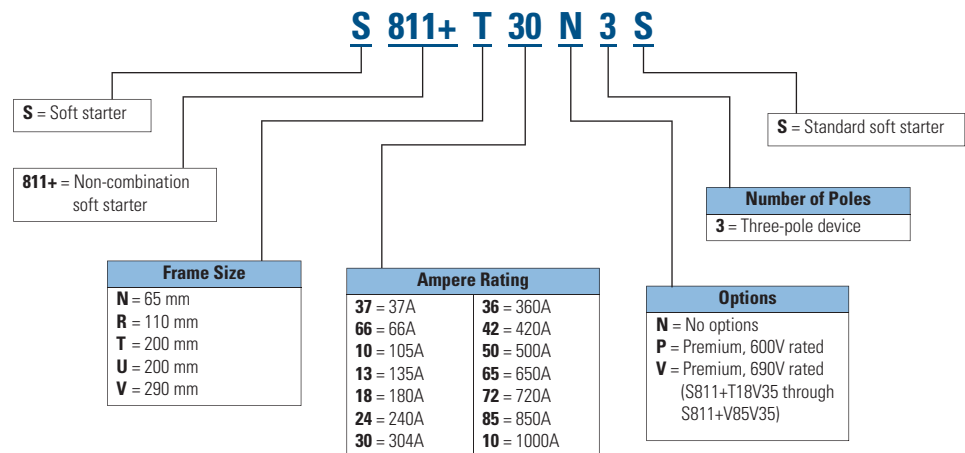
S801+ Open Soft Starters



S811+ Open Soft Starters



S811+ Open Soft Starters



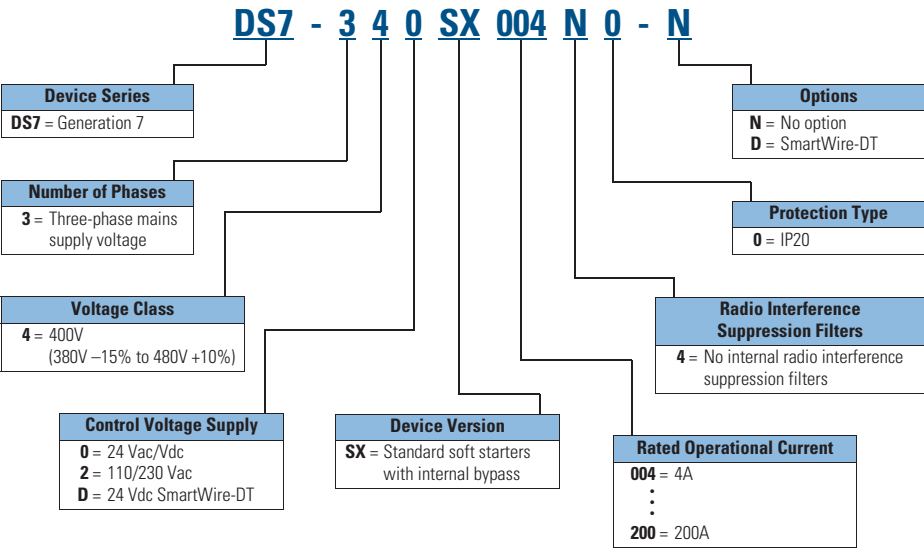
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Soft Start Controllers

DS7 Soft Start Controllers



DS7 Soft Start Controllers



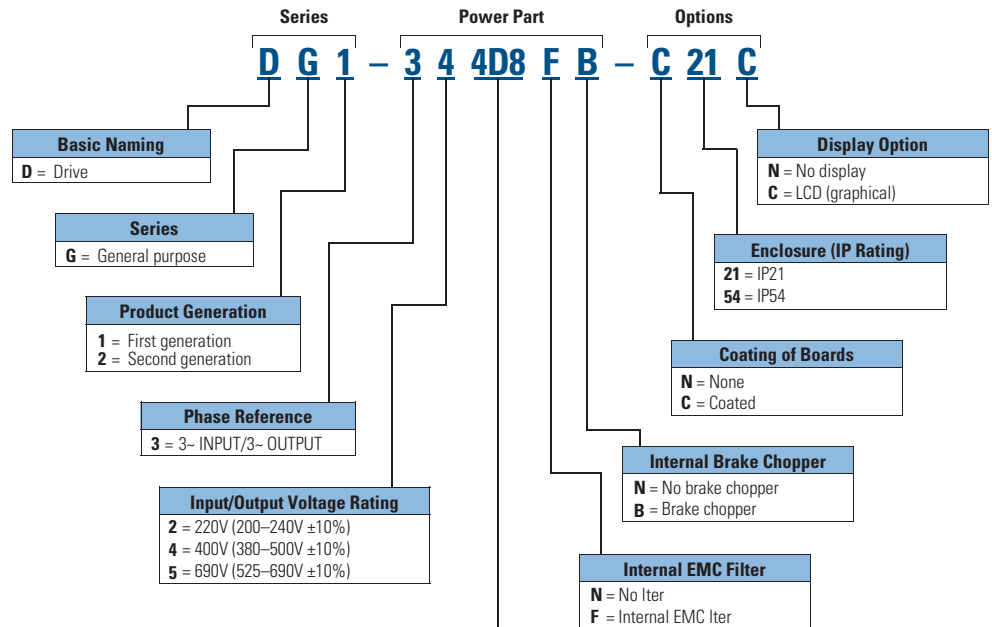
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Adjustable Frequency Drives

DG1 General Purpose Drive



DG1 General Purpose Drive



Output Current Rating (CT)		
208–240V	380–500V	525–690V
3D7 = 3.7A, 0.55 kW, 0.75 hp	2D2 = 2.2A, 0.75 kW, 1 hp	3D3 = 3.3A, 1.5 kW, 2 hp
4D8 = 4.8A, 0.75 kW, 1 hp	3D3 = 3.3A, 1.1 kW, 1.5 hp	4D5 = 4.5A, 2.2 kW, 3 hp
6D6 = 6.6A, 1.1 kW, 1.5 hp	4D3 = 4.3A, 1.5 kW, 2 hp	7D5 = 7.5A, 3.7 kW, 5 hp
7D8 = 7.8A, 1.5 kW, 2 hp	5D6 = 5.6A, 2.2 kW, 3 hp	010 = 10A, 5.5 kW, 7.5 hp
011 = 11A, 2.2 kW, 3 hp	7D6 = 7.6A, 3 kW, 5 hp	013 = 13.5A, 7.5 kW, 10 hp
012 = 12.5A, 3 kW, 5 hp (VT)	9D0 = 9A, 4 kW, 7.5 hp (VT)	018 = 18A, 11 kW, 15 hp
017 = 17.5A, 3.7 kW, 5 hp	012 = 12A, 5.5 kW, 7.5 hp	022 = 22A, 15 kW, 20 hp
025 = 25A, 5.5 kW, 7.5 hp	016 = 16A, 7.5 kW, 10 hp	027 = 27A, 18 kW, 25 hp
031 = 31A, 7.5 kW, 10 hp	023 = 23A, 11 kW, 15 hp	034 = 34A, 22 kW, 30 hp
048 = 48A, 11 kW, 15 hp	031 = 31A, 15 kW, 20 hp	041 = 41A, 30 kW, 40 hp
061 = 61A, 15 kW, 20 hp	038 = 38A, 18 kW, 25 hp	052 = 52A, 37 kW, 50 hp
075 = 75A, 18.5 kW, 25 hp	046 = 46A, 22 kW, 30 hp	062 = 62A, 45 kW, 60 hp
088 = 88A, 22 kW, 30 hp	061 = 61A, 30 kW, 40 hp	080 = 80A, 55 kW, 75 hp
114 = 114A, 30 kW, 40 hp	072 = 72A, 37 kW, 50 hp	100 = 100A, 75 kW, 100 hp
143 = 143A, 37 kW, 50 hp	087 = 87A, 45 kW, 60 hp	125 = 125A, 90 kW, 125 hp
170 = 170A, 45 kW, 60 hp	105 = 105A, 55 kW, 75 hp	144 = 144A, 110 kW, 150 hp
211 = 211A, 55 kW, 75 hp	140 = 140A, 75 kW, 100 hp	208 = 208A, 160 kW, 200 hp
261 = 261A, 75 kW, 100 hp	170 = 170A, 90 kW, 125 hp	
	205 = 205A, 110 kW, 150 hp	
	261 = 261A, 150 kW, 200 hp	

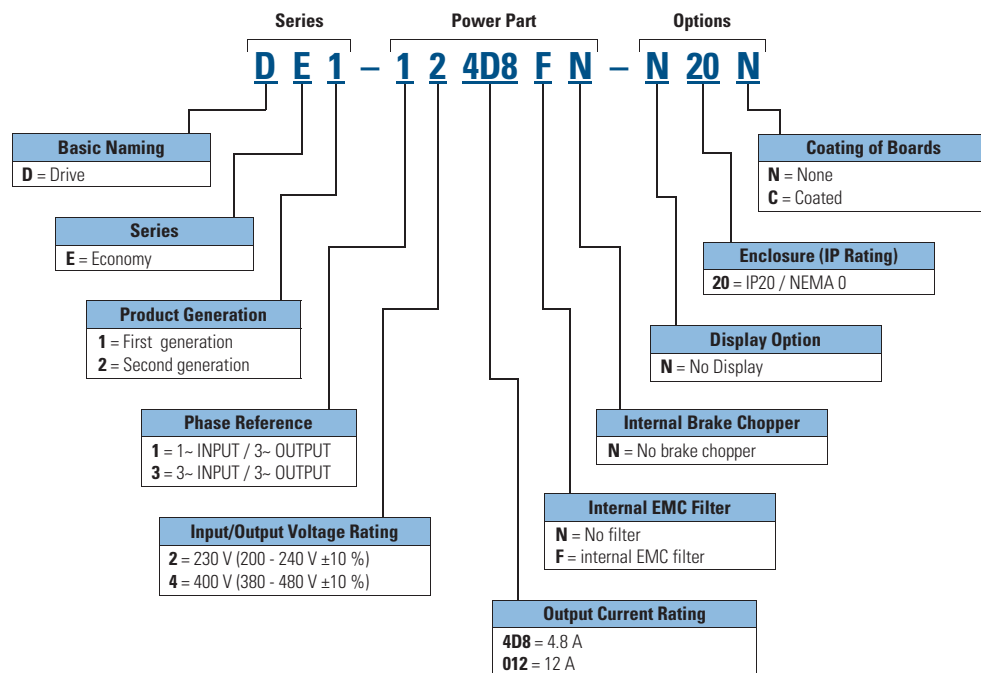
Circuit Protection & Control Products Quick Selection Guide

Adjustable Frequency Drives

DE1 Variable Speed Starter



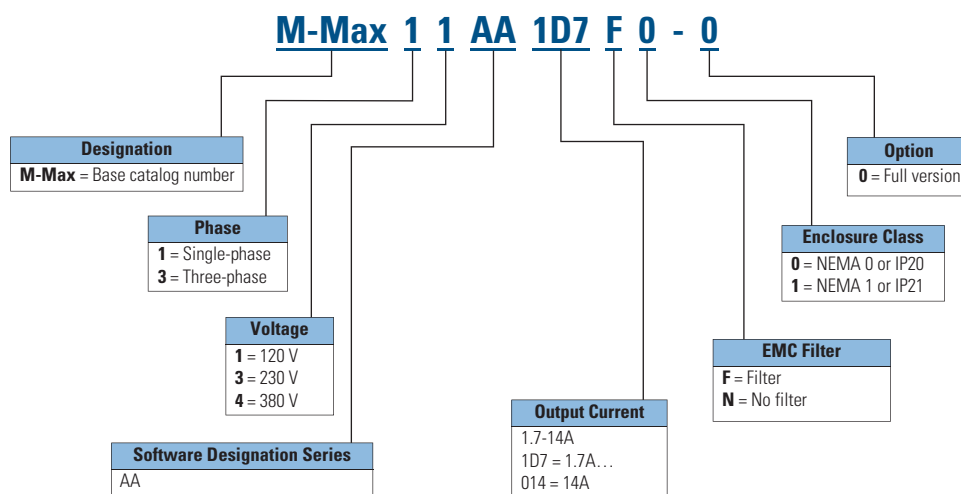
DE1 Variable Speed Starter



M-Max Series Adjustable Frequency AC Drives



M-Max Series Adjustable Frequency AC Drives



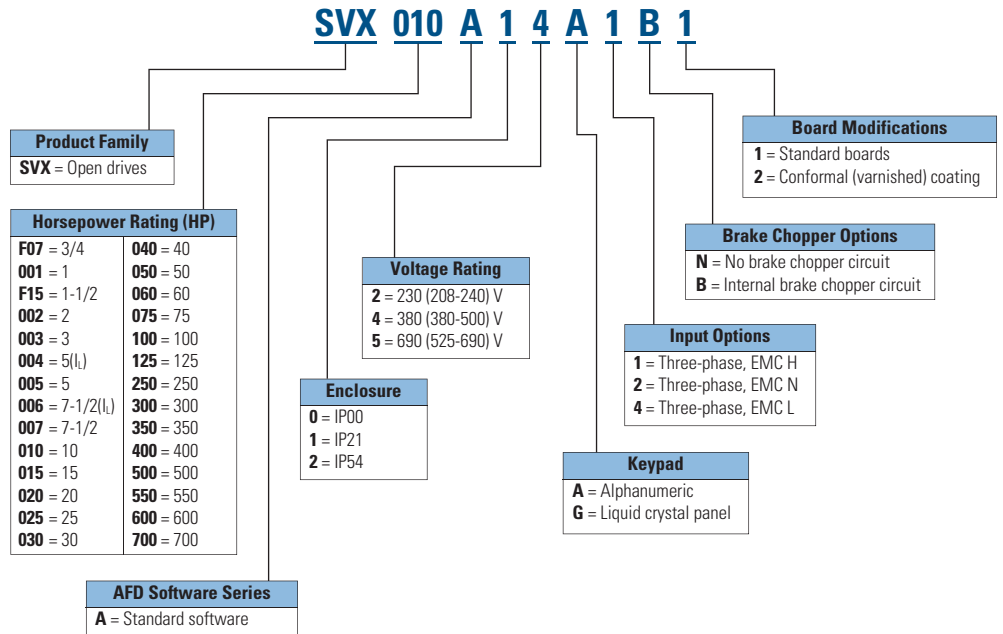
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Adjustable Frequency Drives

SVX9000 Adjustable Frequency Drives



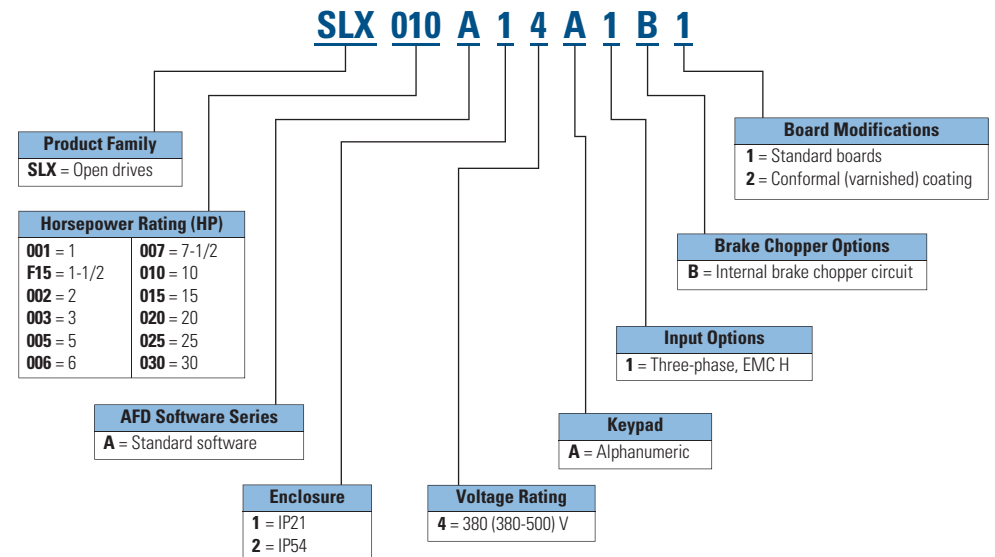
SVX9000 Adjustable Frequency Drives



SLX Adjustable Frequency Drives



SLX Adjustable Frequency Drives



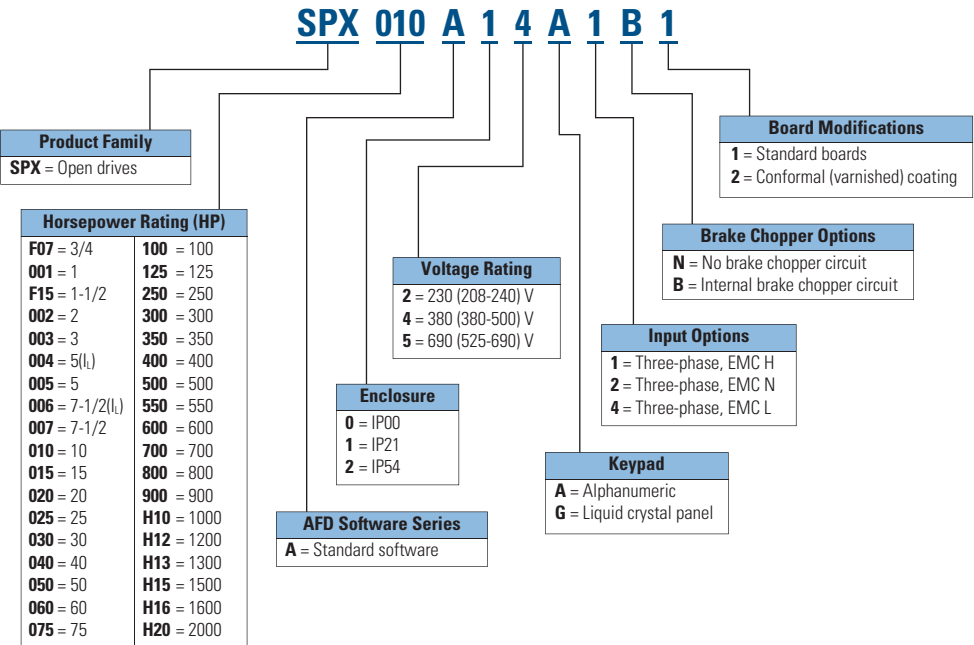
Circuit Protection & Control Products Quick Selection Guide

Adjustable Frequency Drives

SPX9000 Adjustable Frequency Drives



SPX9000 Adjustable Frequency Drives



Circuit Protection & Control Products Quick Selection Guide

Pushbuttons and Indicating Lights

A22 Pushbuttons and Indicating Lights



A22 Pushbuttons and Indicating Lights

A22(M) (1) - (2) / (3) / (4)

A22 Series Pushbuttons
22-mm pushbuttons
A22 = Front bright ring
A22M = Front dark ring

Lamp Socket Block
F = Bulb elements without resistor
FR = Bulb elements with resistor

Contact Blocks
K10 = 1NO
K01 = 1NC
K11 = 1NO + 1NC
KC/I = Control station
KC11 A/I = 1NO + 1NC/2 NC Control station

Operator Type
Flush Actuator
RD = Flush actuator
Illuminated Pushbuttons
R LT = Illuminated, flush, momentary
RLTH = Illuminated extended momentary
RLTR = Illuminated extended maintained
Illuminated Double Operator
QDDL = Illuminated double operator
Mushroom Head Pushbuttons
RP = Mushroom head pushbuttons
RPSR = Key-release mushroom head operator
Non-Illuminated Emergency Stops
RPV = Non-illuminated push-pull emergency stop
E.STOP HEADER = Emergency stop operator (turn to reset)
Indicating Lights
RL = Extended indicator light
RLF = Flush indicating light
LC = Compact indicating light
Selector Switch
RWK1R = 2-position, maintained, 60°
RWK1 = 2-position, momentary, 45°
RWK1V = 2-position, maintained, 90°
RWK3R = 3-position, maintained, 60°
RWK3 = 3-position, momentary, 45°
Key-Operated Selector Switches
RS = 2-position, maintained, 60°
RS3 = 3-position, maintained
RS3-KMS1-A4 = 3-position, momentary
RS3-KMS1-A2 = 2-position, momentary
Palm Switches
FAK-S = 1NO + 1NC
FAK-R = 2NC

Button Plate Color
Non-Illuminated Pushbuttons, Flush, Maintained
01 = Black
02 = White
03 = Green
04 = Red
05 = Yellow
06 = Blue
10,11,12,13,14,19,20,32,37,38 = Actuator with symbol
X = No plate
Illuminated Pushbuttons
WS = White
GN = Green
RT = Red
GE = Yellow
WS11 = White with symbol
Double Actuator Pushbuttons With Indicator Light
11/10 = Green / Red
Mushroom Head Pushbuttons
GN11 = Green with symbol
RT10 = Red with symbol
Indicating Lights
WS = White
GN = Green
RT = Red
DE = Yellow
BL = Blue
Compact Indicator
W = White
G = Green
R = Red
Y = Yellow

Note:

Contact block Catalog Number Selection
A22-EK10(C) = 1 Normal open contact
A22-EK10(C) = 1 Normal closed contact
A22-EC11 = 1 Normal open contact, 1 Normal closed contact
A22-EC20 = 2 Normal open contact
A22-EC02 = 2 Normal closed contact

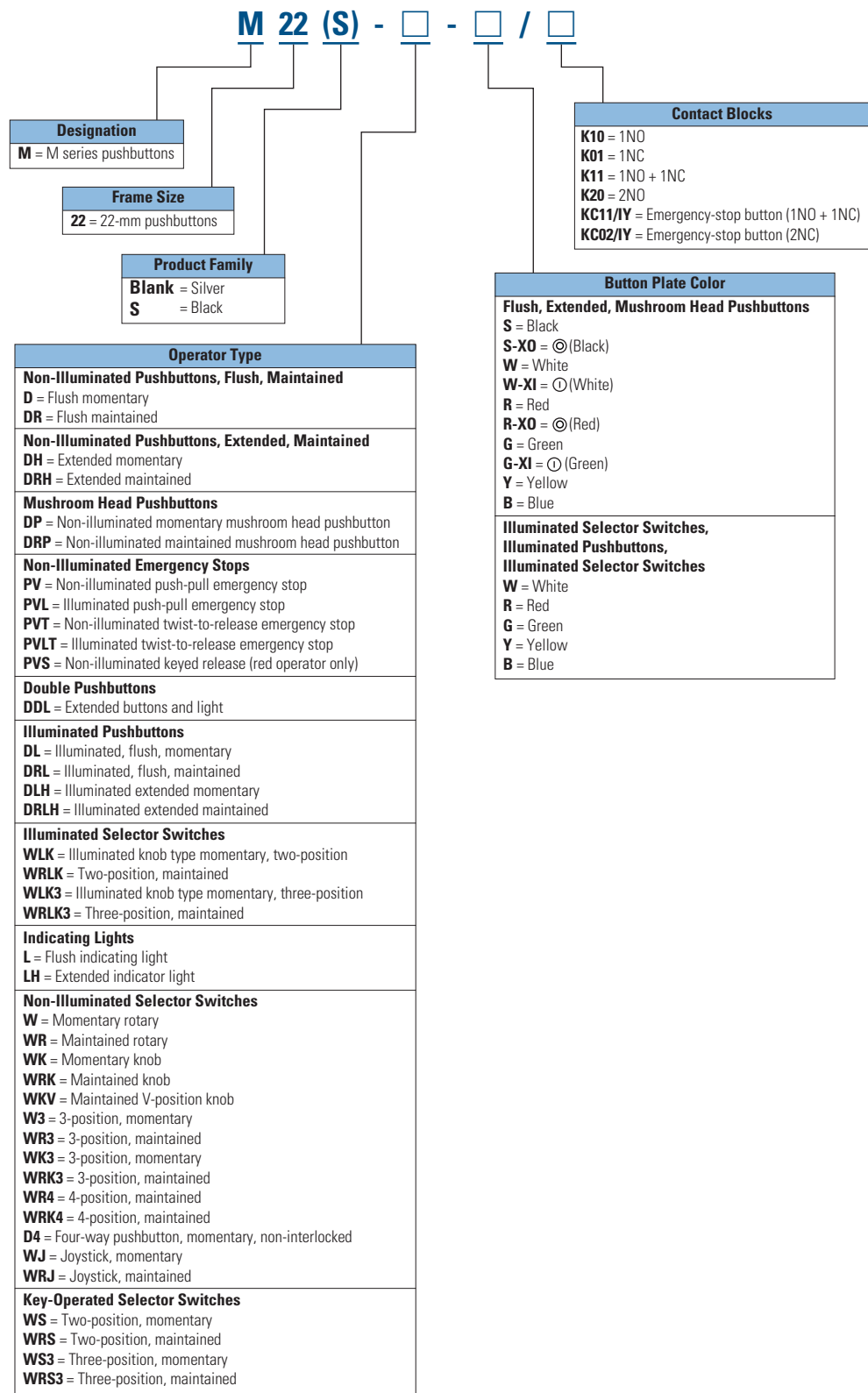
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Pushbuttons and Indicating Lights

M22 Pushbuttons and Indicating Lights



M22 Pushbuttons and Indicating Lights



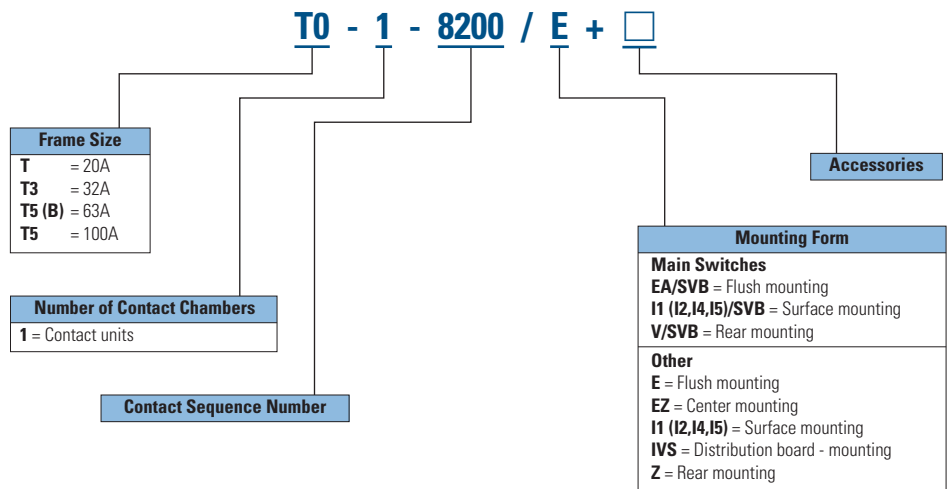
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Cam Switches / Switch-disconnectors

T Cam Switches



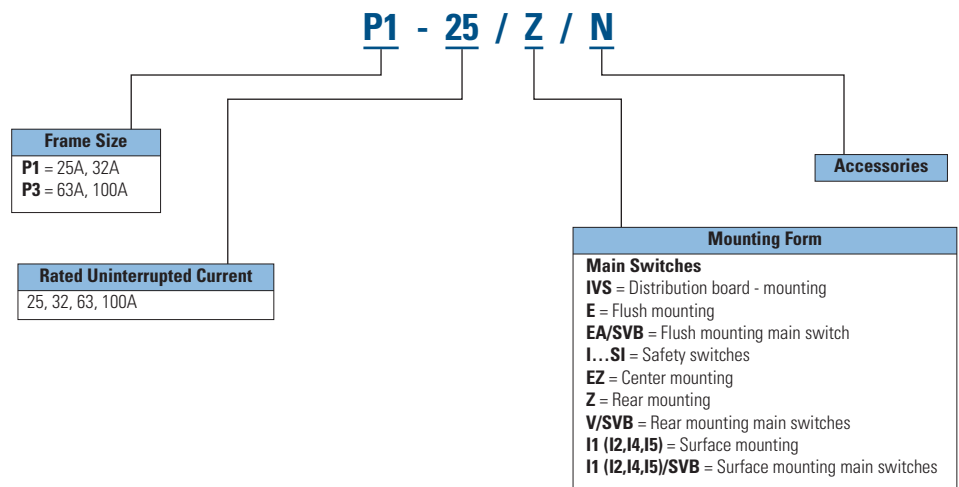
T Cam Switches



P Switch-disconnectors



P Switch-disconnectors



Circuit Protection & Control Products Quick Selection Guide

Position Switches

LSE-Titan Plastic Electronic Safety Position Switches



LSE-Titan Plastic Electronic Safety Position Switches

LSE - 11

Designation
LSE = Plastic electronic safety position switches

Contacts
02 = 2NC
11 = 1NO + 1NC
AI = Analog 4–20 mA
AU = Analog 0-10 V

LS-Titan Metal Safety Switches



LS-Titan Metal Safety Switches

LS - 11 S / RL

Designation
LS = Plastic housing
LSM = Metal housing

Contacts
02 = Cage clamp, 2NC
S02 = Screw terminal, 2NC
11 = Cage clamp, 1NO + 1NC
S11 = Screw terminal, 1NO + 1NC
20 = Cage clamp, 2NO
S20 = Screw terminal, 2NO

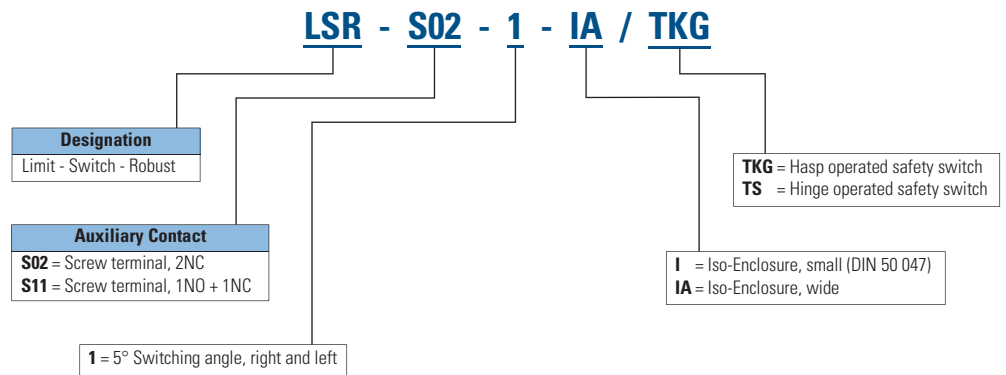
Operating Heads
RL = Roller lever
S = Spring rod actuator
P = Roller plungers
RLA = Adjustable roller levers
RR = Actuating rod
L (LS, LB) = Roller lever (Long, Short, Large)

Contact Type
Blank = Standard contact
D = Delay contact, early close, delay open
S = Snap-action contact
A = Same contact travel

LSR-TKG/TS Hasp/Hinge Operated Safety Switch



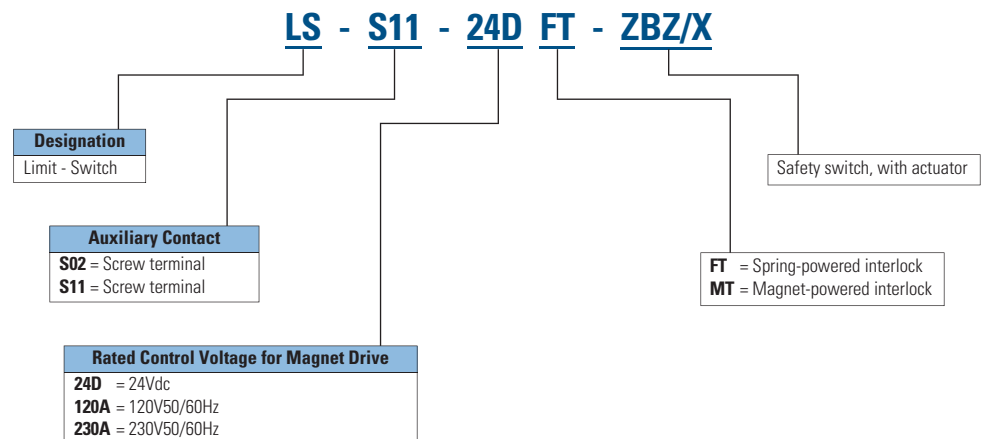
LSR-TKG/TS Hasp/Hinge Operated Safety Switch



LS...ZBZ Solenoid Safety Interlock Switches



LS...ZBZ Solenoid Safety Interlock Switches



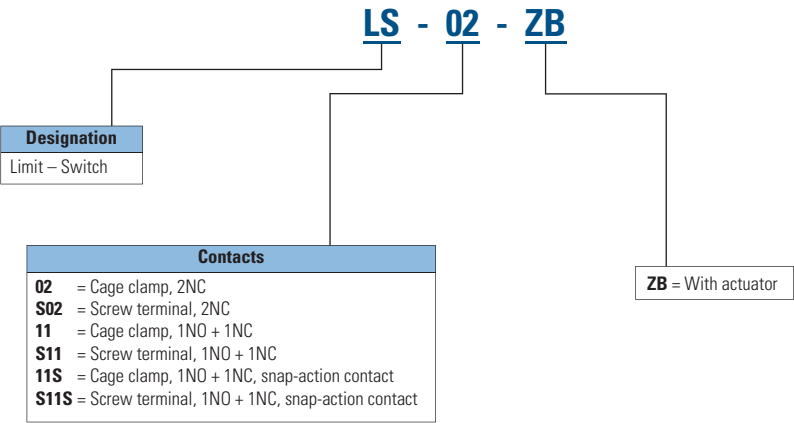
Circuit Protection & Control Products Quick Selection Guide

Position Switches

LS-ZB Safety Position Switches



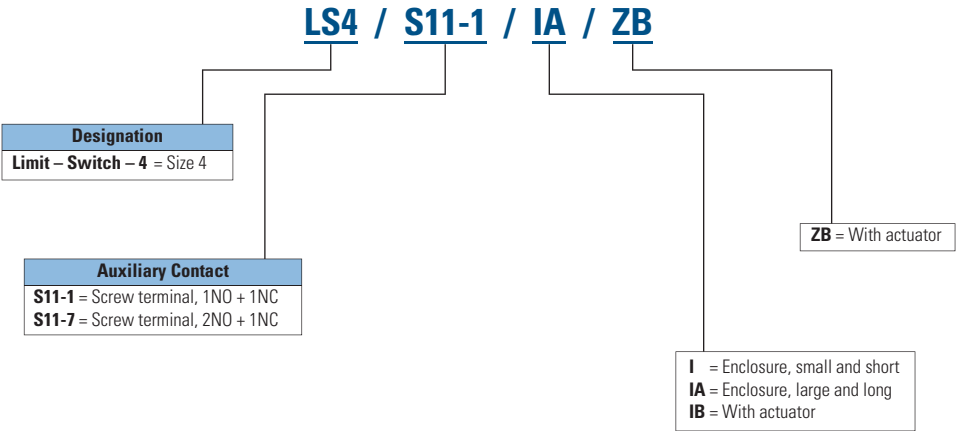
LS-ZB Safety Position Switches



LS4-ZB Safety Position Switches



LS4-ZB Safety Position Switches



XC PLC



XC PLC

XC - CPU101 - C128K - 8DI-6DO

Designation
C = CPU module
IOC = I/O module
V = Text display
T = Accessories

Model Number
101 = 100 series
201 = 200 series
121 = All-in-one 100 series

Function
8 Digital inputs, 6 Digital outputs

Memory Capacity
64K, 128K, 256K, 512K, 4M

XION Remote I/O Module



XION Remote I/O Module

XN-GWBR - PBDP

Designation
GW = Gateway
BR = Power
PF = Power
*DI = I/O Module
P/S = Base
KO/QV = Accessories

Module Type
PBDP = Profibus DP Field bus
CANOPEN = Canopen Field bus
DNET = Device net Field bus
MODBUS-TCP = Modbus TCP Gateway
24VDC = 24V DC
R = Relay Output
I = Current
U = Voltage
SB = Wiring Base

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