
US CATALOG

ProLine

UL 67 Panelboards and breakers

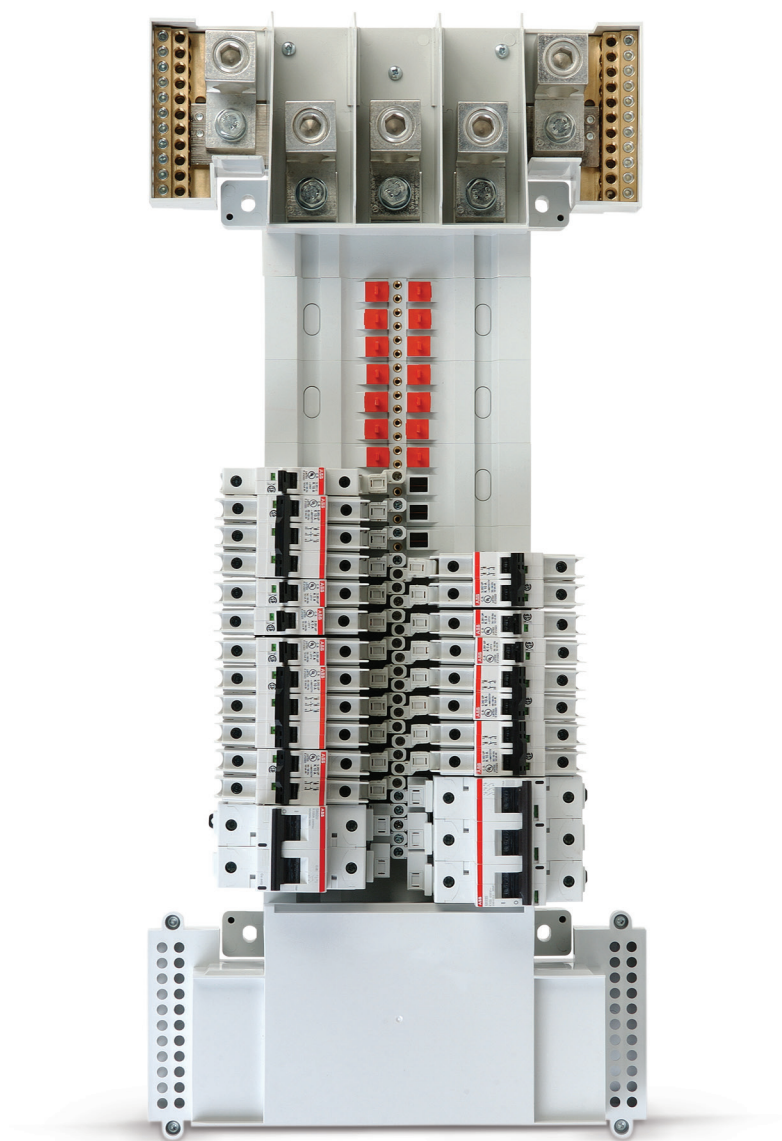
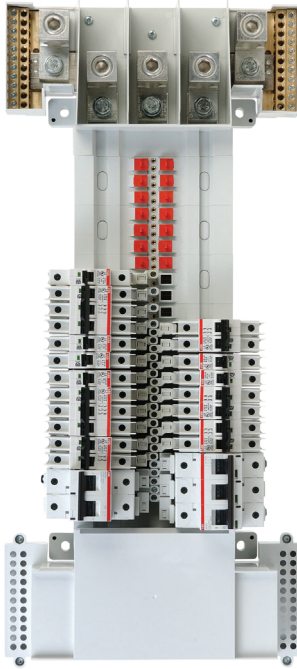


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ProLine panelboard and breakers description

The ProLine panelboard is the electrical industry's first current-limiting, touch-safe and fully coordinated UL 67 panelboard.



Electrical

- UL File #E499134
- UL 67
- 225 A and 400 A
- 42 and 84 circuits (12- and 24-circuit types upon request)
- Panelboard rating 480Y/277 V AC, branch breaker rating 480Y/277 V AC up to 35 A and 240 V AC up to 100 A
- Up to 35 kAIC series rating @240 V AC
- Up to 30 kAIC series rating @480Y/277 V AC
- Single- or double-ended (feed-through)
- 1 A to 100 A branch breakers
- Fully rated sub-fed lugs or breaker
- NEMA 1 enclosure optional

Features

- Breakers UL current-limiting
- Fully coordinated
- IP20 touch-safe
- Pluggable breaker with non-energized bolt-on screw

The ProLine branch circuit breakers are the industry's first UL listed current-limiting breakers to be used in a panelboard application.



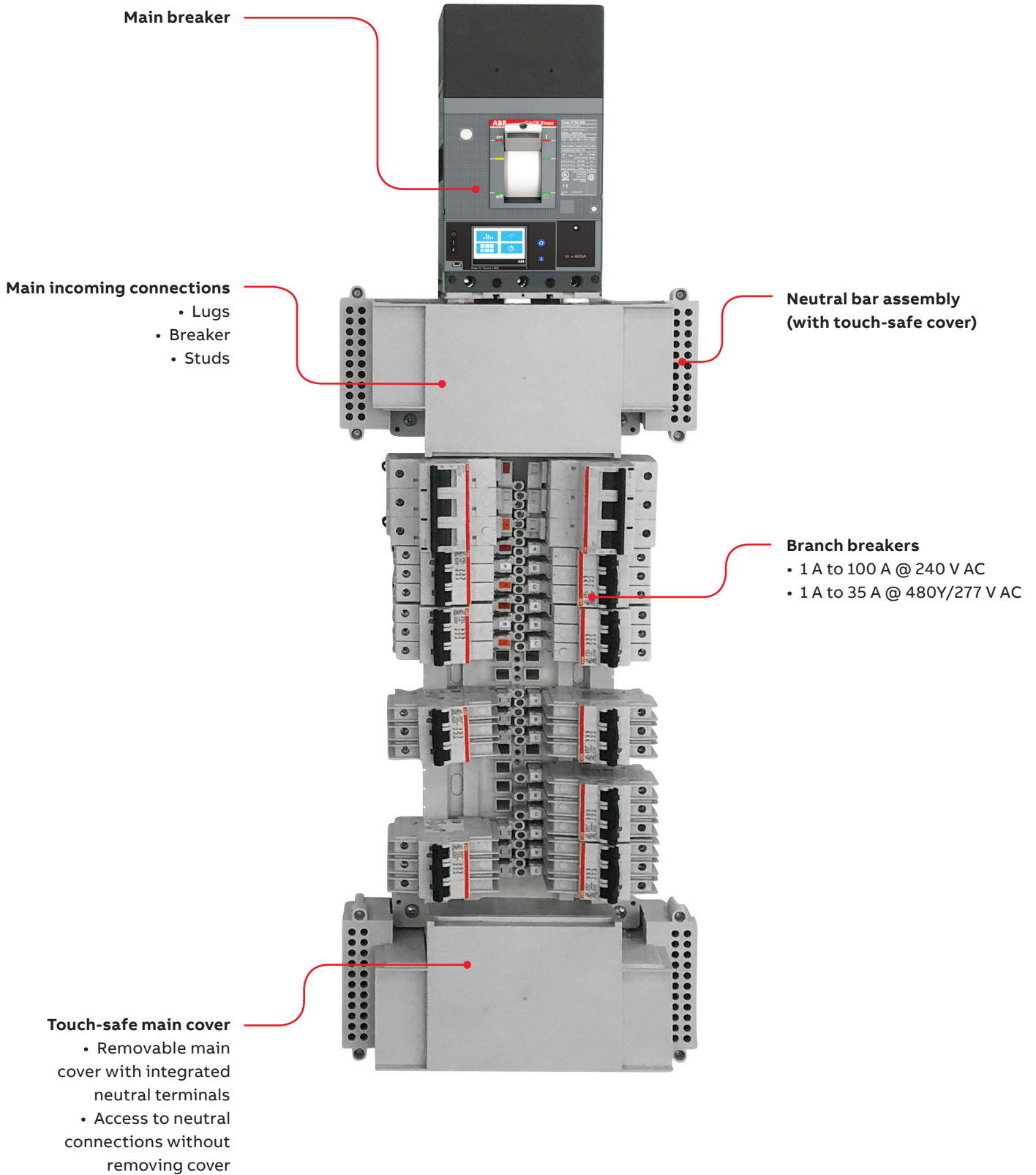
Electrical

- Current-limiting according to UL 489
- Up to 240 V and 480Y/277 V AC
- Stand-alone rating up to 50 kA (depending on breaker type)
- K trip curve
- 1 A to 100 A

Features

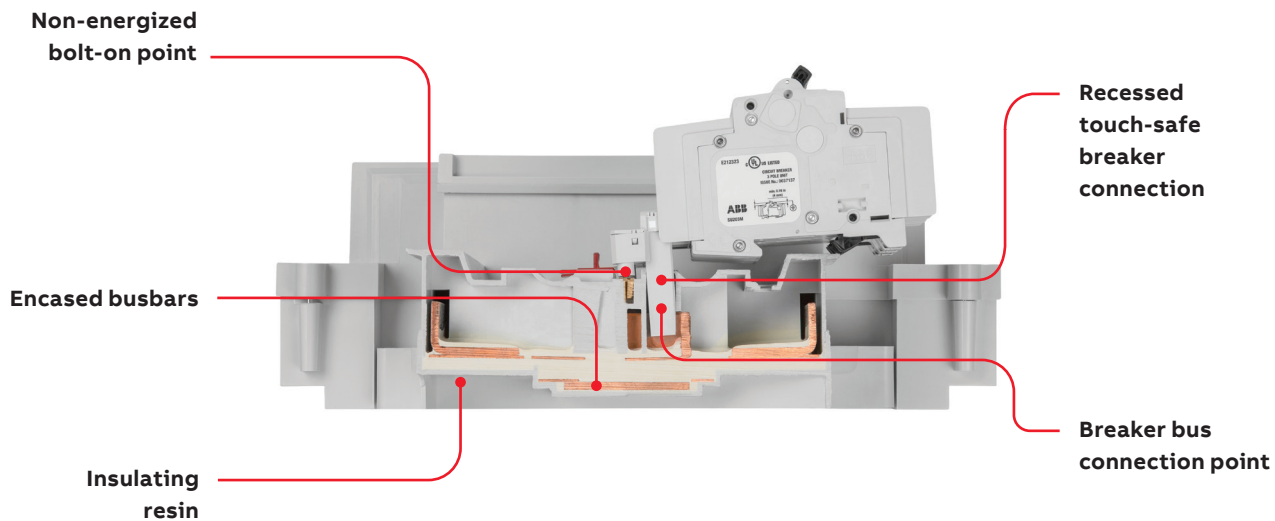
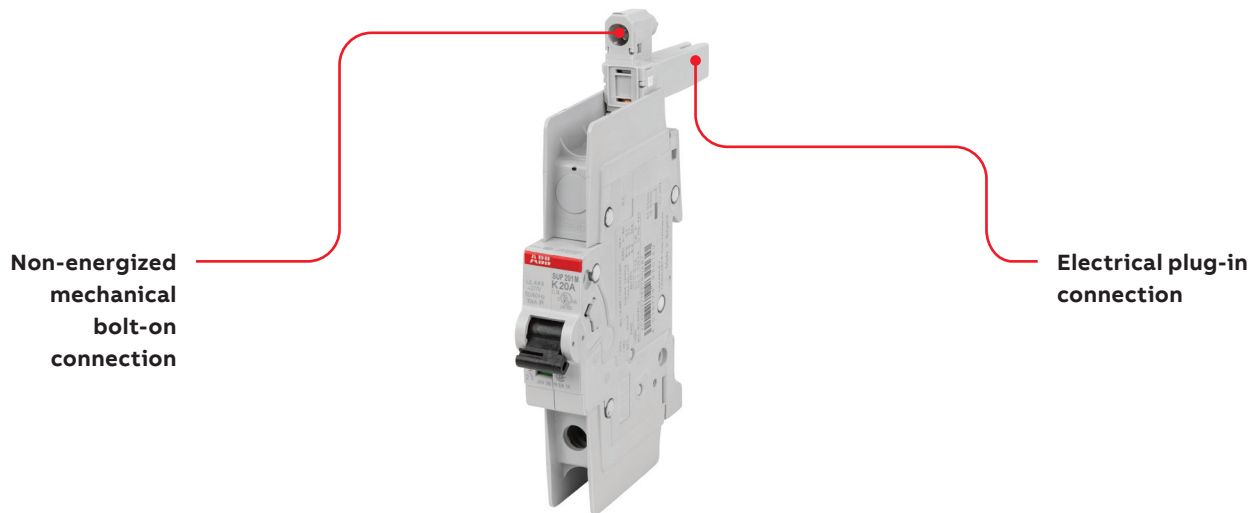
- Contact position window
- Independent thermal and magnetic trip units
- Branch breakers with separated electrical (plug-in) and mechanical (bolt-on) connection

Panelboard features



Breaker features

Pluggable with non-energized bolt-on connection



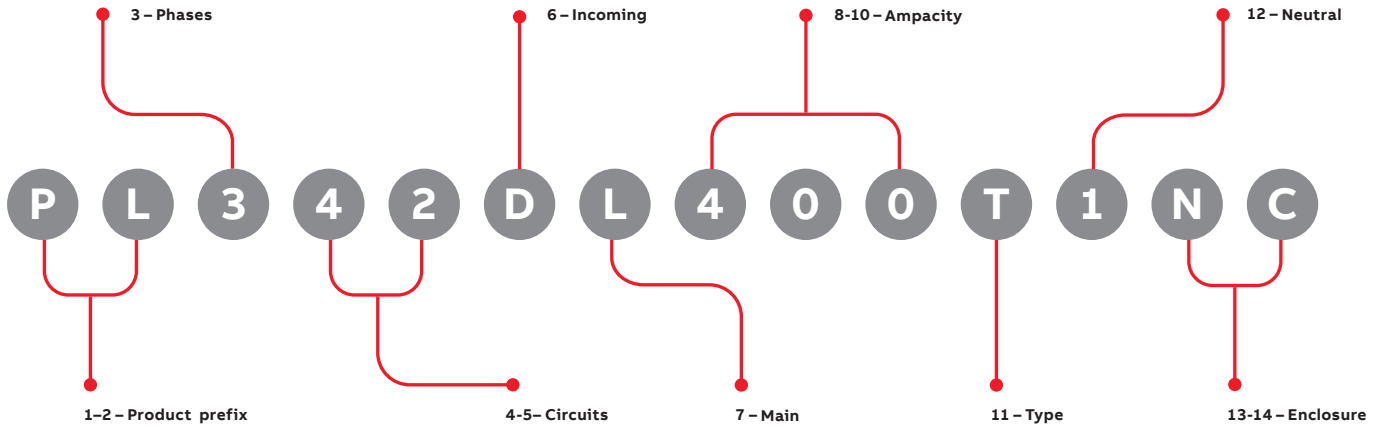
Stable busbar design for high withstand ratings

- Busbar designed with more surface area than typical panelboard busbar
- Busbar encased in resin to aid stabilization in case of a fault

Catalog number guide and panelboard configurator

Proline order code explanation

A complete Proline part number consists of 14 characters.
All characters shown are mandatory.



Mandatory characters

1-2 - Product prefix	4-5 - Circuits	7 - Main	12 - Neutral
Code	Code	Code	Code
Proline (P L)	12 circuits (upon request) ¹ (1 2)	Main breaker (B)	100% (1)
	24 circuits (upon request) (2 4)	Main lugs (L)	200% (2)
	42 circuits (4 2)	Studs (S)	
	84 circuits (8 4)		
3 - Phases	6 - Incoming	8-10 - Ampacity	13-14 - Enclosure
Code	Code	Code	Code
Three-phase (3)	Single (S)	225 Amps (2 2 5)	Open-style (N C)
	Double (D)	400 Amps (4 0 0)	With NEMA 1 enclosure (N 1)
		11 - Type	
		Code	
		Touch-safe (T)	

¹12-circuit version not available with double incoming.

ProLine panelboard standard order codes

Catalog number	Description
PL342SL225T1NC	3-phase, 42 circuits, single incomer, main lug, 225 A, 100% neutral, open style
PL342SB225T1NC	3-phase, 42 circuits, single incomer, main breaker, 225 A, 100% neutral, open style
PL342SL225T2NC	3-phase, 42 circuits, single incomer, main lug, 225 A, 200% neutral, open style
PL342SB225T2NC	3-phase, 42 circuits, single incomer, main breaker, 225 A, 200% neutral, open style
PL342SL400T1NC	3-phase, 42 circuits, single incomer, main lug, 400 A, 100% neutral, open style
PL342SB400T1NC	3-phase, 42 circuits, single incomer, main breaker, 400 A, 100% neutral, open style
PL384SL400T2NC	3-phase, 42 circuits, single incomer, main lug, 400 A, 200% neutral, open style
PL384SB400T2NC	3-phase, 42 circuits, single incomer, main breaker, 400 A, 200% neutral, open style
PL384SS400T2NC	3-phase, 84 circuits, single incomer, main lug, 400 A, 200% neutral, open style

Branch breakers

SUP200M series



SUP201M

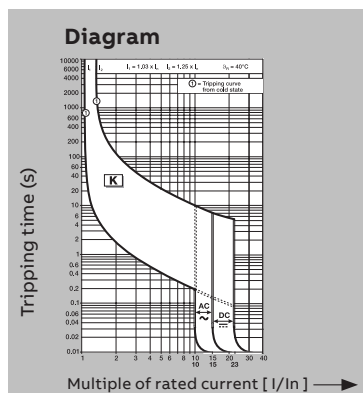


SUP202M



SUP203M

Number of poles	Rated current		Number of poles	Rated current	
	I_n A	Catalog number		I_n A	Catalog number
1	1	SUP201M-K1	3	1	SUP203M-K1
	1.6	SUP201M-K1.6		1.6	SUP203M-K1.6
	2	SUP201M-K2		2	SUP203M-K2
	3	SUP201M-K3		3	SUP203M-K3
	4	SUP201M-K4		4	SUP203M-K4
	5	SUP201M-K5		5	SUP203M-K5
	6	SUP201M-K6		6	SUP203M-K6
	7	SUP201M-K7		7	SUP203M-K7
	8	SUP201M-K8		8	SUP203M-K8
	10	SUP201M-K10		10	SUP203M-K10
	13	SUP201M-K13		13	SUP203M-K13
	15	SUP201M-K15		15	SUP203M-K15
	16	SUP201M-K16		16	SUP203M-K16
	20	SUP201M-K20		20	SUP203M-K20
	25	SUP201M-K25		25	SUP203M-K25
	30	SUP201M-K30		30	SUP203M-K30
	2	1		SUP202M-K1	
1.6		SUP202M-K1.6			
2		SUP202M-K2			
3		SUP202M-K3			
4		SUP202M-K4			
5		SUP202M-K5			
6		SUP202M-K6			
7		SUP202M-K7			
8		SUP202M-K8			
10		SUP202M-K10			
13		SUP202M-K13			
15		SUP202M-K15			
16		SUP202M-K16			
20		SUP202M-K20			
25		SUP202M-K25			
30		SUP202M-K30			
32		SUP202M-K32			
35	SUP202M-K35				
40	SUP202M-K40				
50	SUP202M-K50				

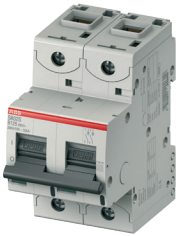


Branch breakers

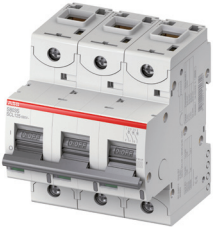
S800U series



S801U



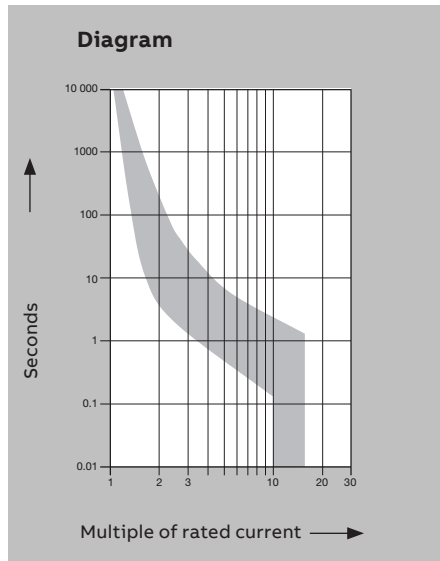
S802U



S803U

Number of poles	Rated current		Number of poles	Rated current	
	I_n A	Catalog number		I_n A	Catalog number
1	10	S801U-K10	3	10	S803U-K10
	15	S801U-K15		15	S803U-K15
	20	S801U-K20		20	S803U-K20
	25	S801U-K25		25	S803U-K25
	30	S801U-K30		30	S803U-K30
	40	S801U-K40		40	S803U-K40
	50	S801U-K50		50	S803U-K50
	60	S801U-K60		60	S803U-K60
	70	S801U-K70		70	S803U-K70
	80	S801U-K80		80	S803U-K80
2	90	S801U-K90		90	S803U-K90
	100	S801U-K100		100	S803U-K100
	10	S802U-K10			
	15	S802U-K15			
	20	S802U-K20			
	25	S802U-K25			
	30	S802U-K30			
	40	S802U-K40			
	50	S802U-K50			
	60	S802U-K60			
70	S802U-K70				
80	S802U-K80				
90	S802U-K90				
100	S802U-K100				

Available with ring tongue terminals upon request.



Bus connectors for branch breakers



PLBCS2



PLBCS8L1L



PLBCS8L2L



PLBCS8L3L



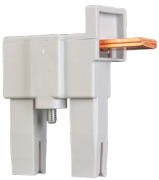
PLBCS8L1R



PLBCS8L2R



PLBCS8L3R



PLBCS8DL1



PLBCS8DL2



PLBCS8DL3

Catalog number	Description
PLBCS2	Bus connector SUP200M
PLBCS8L1L	Bus connector S800U 10-70 A, L1, left
PLBCS8L2L	Bus connector S800U 10-70 A, L2, left
PLBCS8L3L	Bus connector S800U 10-70 A, L3, left
PLBCS8L1R	Bus connector S800U 10-70 A, L1, right
PLBCS8L2R	Bus connector S800U 10-70 A, L2, right
PLBCS8L3R	Bus connector S800U 10-70 A, L3, right
PLBCS8DL1	Bus connector S800U 80-100 A double connector, L1
PLBCS8DL2	Bus connector S800U 80-100 A, double connector, L2
PLBCS8DL3	Bus connector S800U 80-100 A, double connector, L3

ProLine breakers 120, 208, 240 V AC (factory-assembled with bus connector)

PLU700M



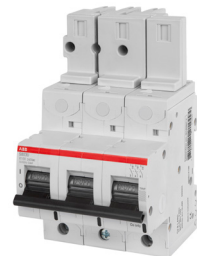
PLU701M



PLU703M



PLU702M-K60L



PLU703M-K100R

120/208/240 V AC

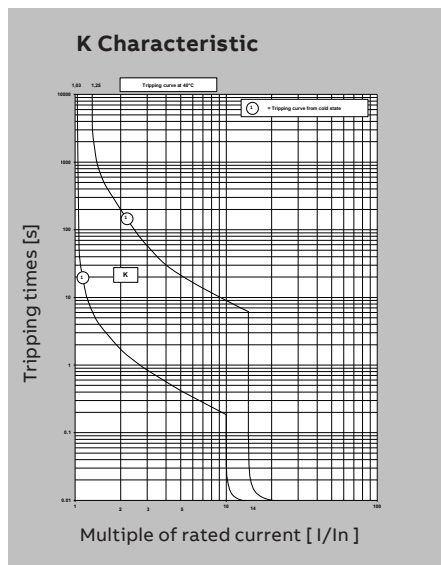
Rated current (A)	K curve, 1-pole		K curve, 2-pole		K curve, 3-pole	
	Catalog number	Rated current (A)	Catalog number	Rated current (A)	Catalog number	Rated current (A)
1	PLU701M-K1	1	PLU702M-K1	1	PLU703M-K1	1
2	PLU701M-K2	2	PLU702M-K2	2	PLU703M-K2	2
3	PLU701M-K3	3	PLU702M-K3	3	PLU703M-K3	3
4	PLU701M-K4	4	PLU702M-K4	4	PLU703M-K4	4
5	PLU701M-K5	5	PLU702M-K5	5	PLU703M-K5	5
6	PLU701M-K6	6	PLU702M-K6	6	PLU703M-K6	6
7	PLU701M-K7	7	PLU702M-K7	7	PLU703M-K7	7
8	PLU701M-K8	8	PLU702M-K8	8	PLU703M-K8	8
10	PLU701M-K10	10	PLU702M-K10	10	PLU703M-K10	10
13	PLU701M-K13	13	PLU702M-K13	13	PLU703M-K13	13
15	PLU701M-K15	15	PLU702M-K15	15	PLU703M-K15	15
16	PLU701M-K16	16	PLU702M-K16	16	PLU703M-K16	16
20	PLU701M-K20	20	PLU702M-K20	20	PLU703M-K20	20
25	PLU701M-K25	25	PLU702M-K25	25	PLU703M-K25	25
30	PLU701M-K30	30	PLU702M-K30	30	PLU703M-K30	30
32	PLU701M-K32	32	PLU702M-K32	32	PLU703M-K32	32
35	PLU701M-K35	35	PLU702M-K35	35	PLU703M-K35	35
40	PLU701M-K40	40	PLU702M-K40	40	PLU703M-K40	40
50	PLU701M-K50	50	PLU702M-K50	50	PLU703M-K50	50
25	PLU701M-K25L	25	PLU702M-K25L	25	PLU703M-K25L	25
30	PLU701M-K30L	30	PLU702M-K30L	30	PLU703M-K30L	30
40	PLU701M-K40L	40	PLU702M-K40L	40	PLU703M-K40L	40
50	PLU701M-K50L	50	PLU702M-K50L	50	PLU703M-K50L	50
60	PLU701M-K60L	60	PLU702M-K60L	60	PLU703M-K60L	60
70	PLU701M-K70L	70	PLU702M-K70L	70	PLU703M-K70L	70
25	PLU701M-K25R	25	PLU702M-K25R	25	PLU703M-K25R	25
30	PLU701M-K30R	30	PLU702M-K30R	30	PLU703M-K30R	30
40	PLU701M-K40R	40	PLU702M-K40R	40	PLU703M-K40R	40
50	PLU701M-K50R	50	PLU702M-K50R	50	PLU703M-K50R	50
60	PLU701M-K60R	60	PLU702M-K60R	60	PLU703M-K60R	60
70	PLU701M-K70R	70	PLU702M-K70R	70	PLU703M-K70R	70
80	PLU701M-K80R	80	PLU702M-K80R	80	PLU703M-K80R	80
90	PLU701M-K90R	90	PLU702M-K90R	90	PLU703M-K90R	90
100	PLU701M-K100R	100	PLU702M-K100R	100	PLU703M-K100R	100

ProLine breakers 480Y/277 V AC, UL 489

PLU700M

480Y/277 V AC

K curve, 1-pole		K curve, 2-pole		K curve, 3-pole	
Rated current (A)	Catalog number	Rated current (A)	Catalog number	Rated current (A)	Catalog number
1	PLU701M-K1	1	PLU702M-K1	1	PLU703M-K1
2	PLU701M-K2	2	PLU702M-K2	2	PLU703M-K2
3	PLU701M-K3	3	PLU702M-K3	3	PLU703M-K3
4	PLU701M-K4	4	PLU702M-K4	4	PLU703M-K4
5	PLU701M-K5	5	PLU702M-K5	5	PLU703M-K5
6	PLU701M-K6	6	PLU702M-K6	6	PLU703M-K6
7	PLU701M-K7	7	PLU702M-K7	7	PLU703M-K7
8	PLU701M-K8	8	PLU702M-K8	8	PLU703M-K8
10	PLU701M-K10	10	PLU702M-K10	10	PLU703M-K10
13	PLU701M-K13	13	PLU702M-K13	13	PLU703M-K13
15	PLU701M-K15	15	PLU702M-K15	15	PLU703M-K15
16	PLU701M-K16	16	PLU702M-K16	16	PLU703M-K16
20	PLU701M-K20	20	PLU702M-K20	20	PLU703M-K20
25	PLU701M-K25	25	PLU702M-K25	25	PLU703M-K25
30	PLU701M-K30	30	PLU702M-K30	30	PLU703M-K30
32	PLU701M-K32	32	PLU702M-K32	32	PLU703M-K32
35	PLU701M-K35	35	PLU702M-K35	35	PLU703M-K35



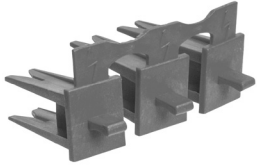
Trip curve K

- UL 489
- K curve
- Curve allows for loads with higher inrush current during system start-up

Notes:

- PLU70xM-R and L have different dimensions (see dimension drawings)
- PLU70xM-K...R 80 A/90 A/100 A
 - Have double stab adapters
 - Are available as R only

Accessories — panelboard



PLBUSCVR

Panelboard chassis hole bus cover

Description	Catalog number
Bus cover to cover empty branch circuit breaker spaces	PLBUSCVR

Neutral and ground bar assemblies

Description	Catalog number
Neutral bar assembly (100%), 42-circuit, 400 A	PLN42400S
Neutral bar assembly (200%), 42-circuit, 400 A	PLN42400S2
Ground bar assembly, 42-circuit, 400 A	PLG42400S
Neutral bar assembly (100%), 42-circuit, 225 A	PLN42225S
Neutral bar assembly, (200%), 42-circuit, 225 A	PLN42225S2
Ground bar assembly, 42-circuit, 225 A	PLG42225S

Neutral/ground lugs

Description	Catalog number
ProLine, 42-circuit, 250 A, N/G lug	PLNG42250
ProLine, 42-circuit, 400 A, N/G lug	PLNG42400



PL350MECLUG

Main and sub-feed lugs

Lugs for incoming and outgoing connections

Description	Catalog number
225 A single 4/0 AWG to 350 MCM	PL350MECLUG
400 A single 4/0 AWG to 600 MCM	PL600MECLUG



PLMVCVR

Mains cover (incomer and neutral lugs)

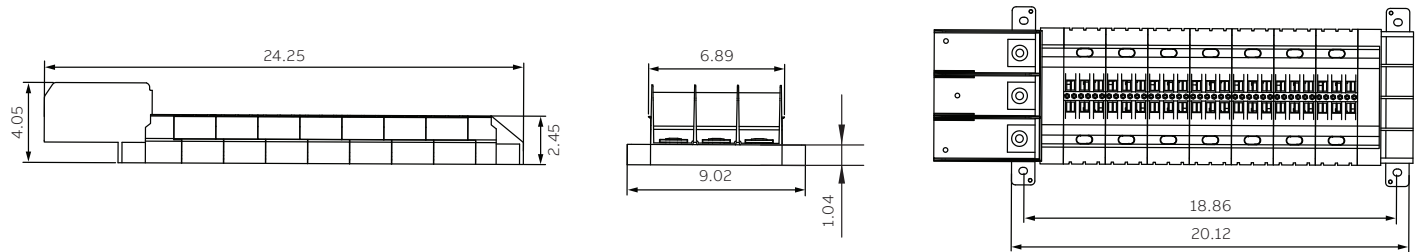
Description	Catalog number
Mains cover	PLMVCVR

Approximate dimensions

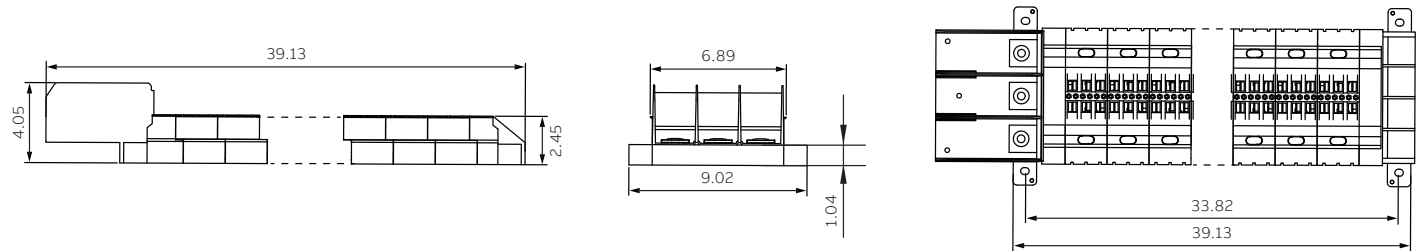
Panelboards single-ended and double-ended

Dimensions in inches.

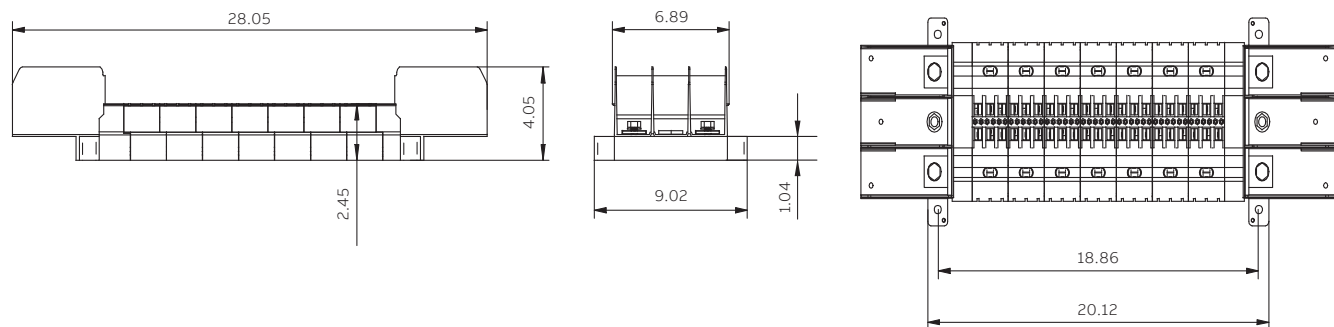
42-Circuit, single-ended



84-Circuit, single-ended



42-Circuit, double-ended



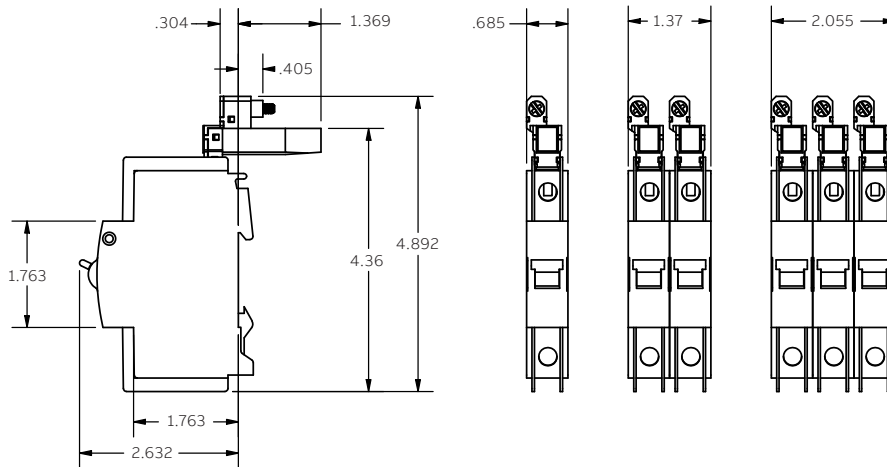
Approximate dimensions

PL700 breakers

Dimensions in inches.

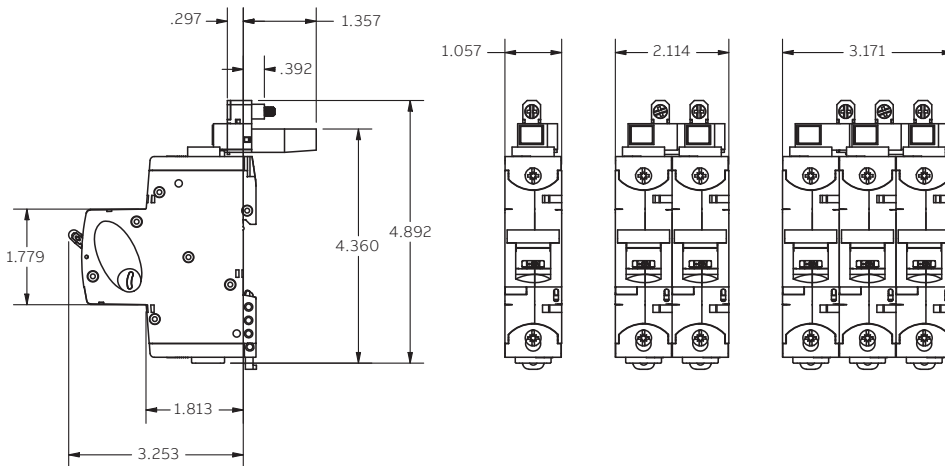
PLU700M

1 A-50 A



PLU700M

25 A L/R - 70 A L/R

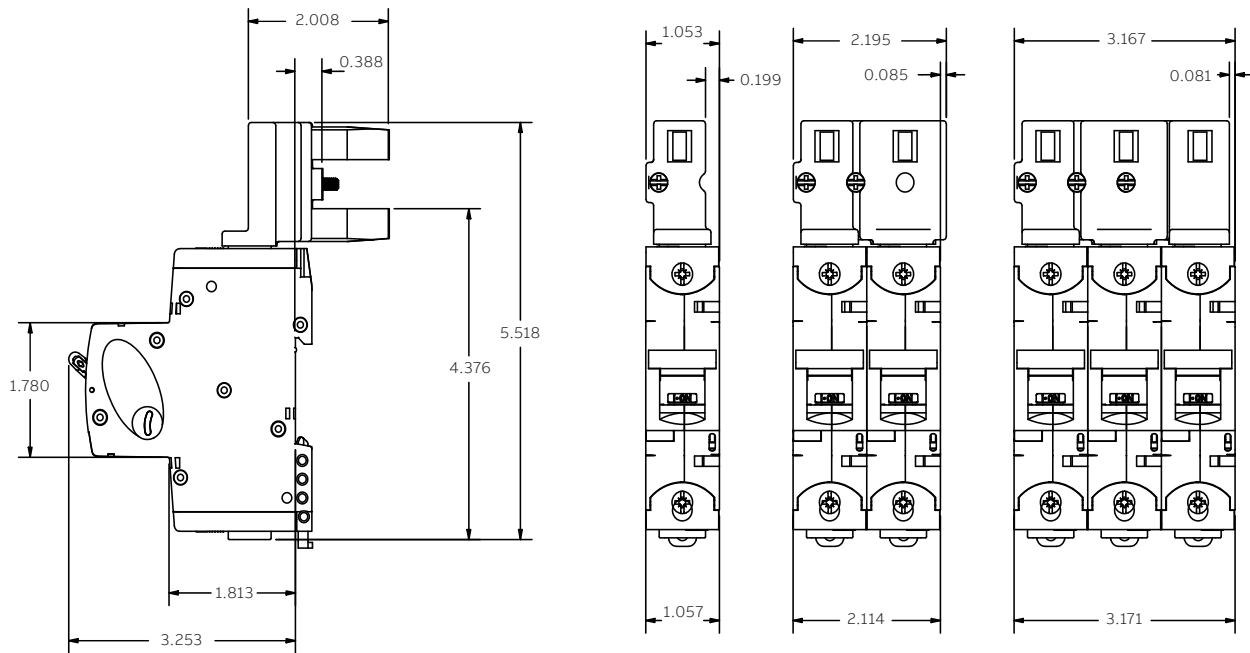


Approximate dimensions

PL700 breakers

Dimensions in inches.

**PLU700M
80 A - 100 A**



Technical specifications

SUP200M, PLU700M, S800U and PL700-K breakers

Item	SUP200M/PLU700M	SUP200M/PLU700M	S800U/PL700-K (L) S800U/PL700-K (R)
UL ratings	489	489	489
Number of poles	1, 2, 3	1, 2, 3	1, 2, 3
Tripping characteristic	K	K	K
Rated currents	1 to 35 A	40 A, 50 A	25 A to 70 A ¹ , 80 to 100 A ²
Minimum operating voltage	12 V	12 V	12 V
UL rated voltage and interrupting capacity			
Stand-alone short circuit current rating	14 kA	10 kA	30 kA: Single pole 50 kA: Multi-pole
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated voltage	480Y/277 V AC	240 V AC	240 V AC
Protection category	IP 20	IP 20	IP 20
Main terminals			
Wire size	18–16 AWG/13.3 in-lbs. 14–10 AWG/17.7 in-lbs. 8–4 AWG/39.8 in-lbs.	18–4 AWG/0.75–25 mm ²	25–1 AWG
Torque	25 in-lbs/2.8 Nm	25 in-lbs/2.8 Nm	35 in-lbs./4 Nm
Tool	#2 Posidrive	#2 Posidrive	#2 Posidrive
Service life at rated load	6,000 operations 20,000 operations (Mechanical endurance)	6,000 operations 20,000 operations (Mechanical endurance)	6,000 operations —
Ambient temperatures			
Minimum	-25 °C -13 °F	-25 °C -13 °F	-25 °C -13 °F
Maximum	+55 °C 131 °F	+55 °C 131 °F	60 °C 140 °F
Storage temperatures			
Minimum	-40 °C -40 °F	-40 °C -40 °F	-40 °C -40 °F
Maximum	70 °C 158 °F	70 °C 158 °F	70 °C 158 °F
Shock resistance	25 g minimum of 2 impacts, shock duration of 13 ms	25 g minimum of 2 impacts, shock duration of 13 ms	—
Vibration resistance	5 g, 20 cycles, 5 Hz, 150 Hz at 0.8 In	5 g, 20 cycles, 5 Hz, 150 Hz at 0.8 In	—

¹ 60 A/70 A have different dimensions.

² 80 A/90 A/100 A available as "R" only and have double stab adapters.

Series UL ratings

SUP200M MCBs with SACE® Tmax® XT MCCBs

Main breaker			Branch breaker			Interrupting rating		
Type	Amps	Poles	Type, trip curve	Amps	Poles	Rms sym. A	V AC	Phase
XT3	100-225	3,4	SUP201M-K...	1-20	1	35000	240	1
XT3	100-225	3,4	SUP203M-K...	1-20	3	35000	240	3
XT3	100-225	3,4	SUP201M-K...	1-50	1	14000	240	1
XT3	100-225	3,4	SUP203M-k...	1-50	3	25000	240	3
XT3	100-225	3,4	SUP201M-K...	1-35	1	14000	277	1
XT3	100-225	3,4	SUP203M-K...	1-35	3	14000	480Y/277	3
XT4	60-250	2,3,4	SUP201M-K...	1-20	1	35000	240	1
XT4	60-250	3,4	SUP203M-K...	1-20	3	35000	240	3
XT4	60-250	2,3,4	SUP201M-K...	1-50	1	14000	240	1
XT4	25-250	2,3,4	SUP201M-K...	1-50	1	35000	240	1
XT4	60-250	3,4	SUP203M-K...	1-50	3	25000	240	3
XT4	25-250	3,4	SUP203M-K...	1-50	3	30000	240	3
XT4	60-250	2,3,4	SUP201M-K...	1-35	1	14000	277	1
XT4	60-250	3,4	SUP203M-K...	1-35	3	14000	480Y/277	3
XT4	25-250	3,4	SUP203M-K...	1-35	3	30000	480Y/277	3#
XT1	15-125	3,4	SUP203M-K...	1-50	3	30000	240	3
XT2	15-125	3,4	SUP201M-K...	1-50	1	35000	240	1
XT2	15-125	3,4	SUP203M-K...	1-50	3	30000	240	3
XT5	300-600	3,4	SUP201M-K...	1-50	1	35000	240	1
XT5	300-600	3,4	SUP203M-K...	1-50	3	30000	240	3

Breaker placement guide



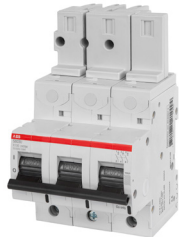
PLU701M



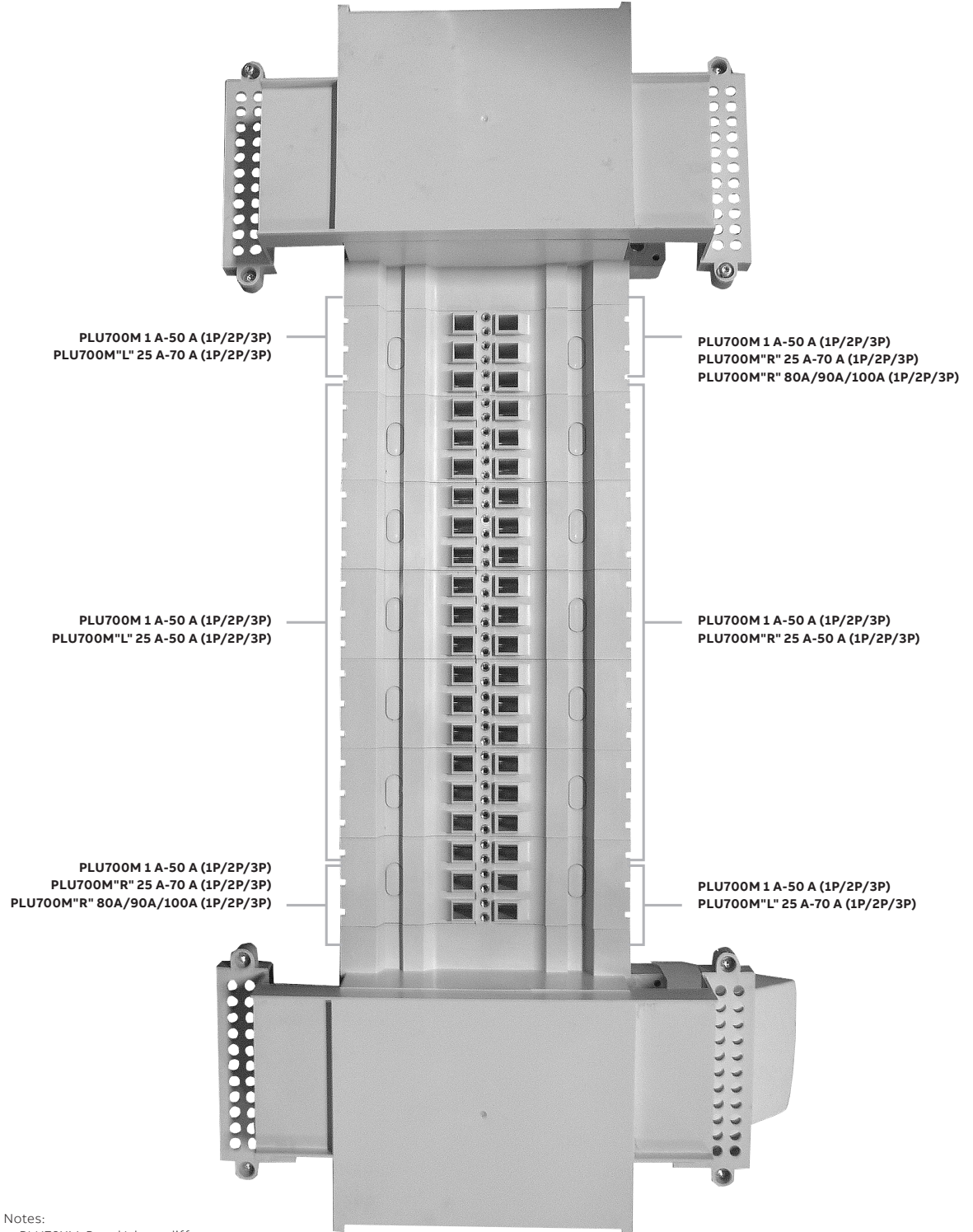
PLU703M



PLU702M-K60L



PLU703M-K100R



Notes:

- PLU70XM-R and L have different stab adapter position dimensions (see dimension drawings)
- PLU70XM-R 80 A/90 A/100 A
 - Have double stab adapters
 - Are available as R only

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