Industrial Solutions

SALES BROCHURE

Experience XTreme performance with lighting panelboards.

ReliaGear® from ABB

by ABB

In our ongoing commitment to offer superior value at every touch point — from quote to ordering to installation to maintenance — we have combined the best technology of ABB and GE Industrial Solutions to bring you a true breakthrough in lighting panelboards.

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ReliaGear lighting panelboards
A smart choice to deliver XTreme performance

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ReliaGear RS lighting panelboard
1. Load end neutral
2. (4) Tmax XT4 sub-feeds with a maximum of 5 sub-feeds
3. TEYL branch breakers
4. Main lug 600 A
5. Incoming line of a bottom feed panel
6. Ground bars (not shown) are enclosure mounted in either the top or bottom gutters

Over a century of research and experience results in highly reliable, top-level products that are ready to face all future challenges.

By integrating Formula A2 and Tmax® XT circuit breakers as mains and sub-feeds in the RQ, RL, RE, RS, and Pro-Stock panels, ABB reveals a new generation of lighting panels with increased breaker density and advanced features to experience Xtreme performance.

ReliaGear lighting panelboards are the safe, smart, and sustainable solution for projects of any size that demand quick delivery, ease of installation, design flexibility, and greater versatility.

Take your projects to the XTreme

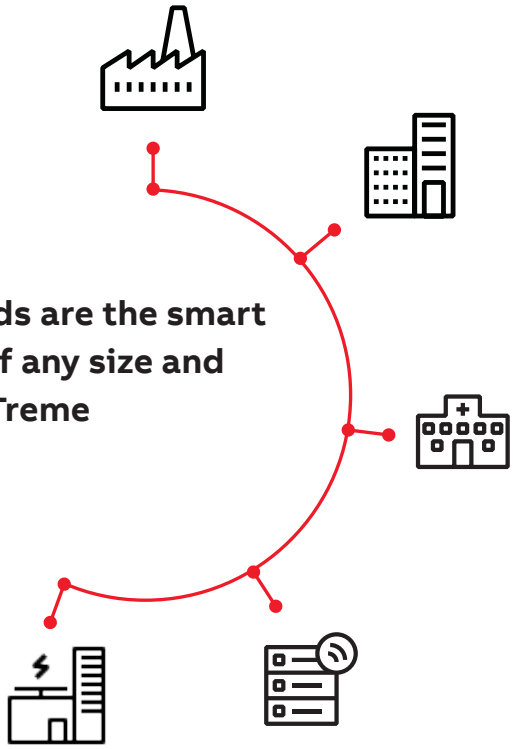
Combining ABB and GE Industrial Solutions expertise, we help secure more business and maximize profits

Consultants and end users
State-of-the-art technology backed by a long history of success and innovation. Sharing the best of both, ABB and GE Industrial Solutions put highly skilled and experienced engineers at your service to support you before, during, and beyond the product life cycle.

Contractors
The modular and versatile design helps speed installation and dramatically reduces labor costs.

Distributors
Same-day availability and exceptional lead times offer a competitive advantage to projects where time is critical.

OEMs and panel builders
Ease of installation, availability, commonality, functionality and XTreme performance make the ReliaGear lighting panelboard a smart choice.



ReliaGear panelboards are the smart choice for projects of any size and application where XTreme performance matter.

Ideal for:
- Commercial and high-rise buildings
- Data centers
- Educational and institutional facilities
- Food and beverage facilities
- Health care facilities
- Infrastructure projects
- Large industrial complexes
- And more

Technologies that offer XTra value

Easy to install

XTremely easy installation
The extruded split neutrals simplify wiring and speed installation. NEMA enclosures offer ample gutter space for terminating wires and cables per the NEC code. Moreover, only four mounting screws are required to mount the interior. These unique features help offer a time-saving and easy installation, and minimize any needed wall reconstruction, clean-up, and downtime.

Greater versatility

Breaking a new ground by increasing sub-feed amperage
ReliaGear lighting panelboards now offer increased amperages and sub-feed circuit counts to feed more downstream loads. Combined with advanced electronic trip units in compact frames, helps to ensure continuity of service and equipment protection at all times.

Design flexibility

An advanced level of customization
ReliaGear lighting panelboards feature a flexible design. Choose from thousands of configurations and add optional embedded SPD, main metering or branch circuit metering to create lighting panelboards that adapt to each customer's specific need.

Automated logistics

Exceptional lead times
The state-of-the-art automated empower tool facilitates product ordering, helping users save time and money. Empower enables product configuration, drawings submittal, detailed quotes and order entry at any time. In addition, empower's PanelScan solution helps enhance productivity through the automated takeoff of panelboard schedules.

Choosing the right panel

ReliaGear lighting panelboards are factory assembled on rigid steel frames and equipped with circuit breakers from 15 A to 800 A. The maximum short circuit rating is equal to 100 kAIC at 240 V AC and 480/277 V AC with series rating of 100 kAIC at 480 V AC and 200 kAIC at 240 V AC.

ReliaGear lighting panelboards can be used on the following system voltages:

United States and Canada
- 120/240 V AC; 1-phase, 3-wire
- 240 V AC; 3-phase, 3-wire
- 240/120V AC; 3-phase, 4 wire (B-phase hi leg)
- 480 V AC; 3-phase, 3-wire
- 208Y/120 V AC; 3-phase, 4-wire
- 480Y/277 V AC; 3-phase, 4-wire

International
- 380 V AC, 3-phase, 3-wire
- 400 V AC, 3-phase, 3-wire
- 415 V AC, 3-phase, 3-wire
- 220Y/127 V AC, 3-phase, 4- wire
- 230Y/127 V AC, 3-phase, 4-wire
- 380Y/220 V AC, 3-phase, 4-wire
- 400Y/231V AC, 3-phase, 4-wire
- 415Y/240V AC, 3-phase, 4-wire

The ReliaGear lighting panelboards are available with multiple options.

All ReliaGear lighting panelboards have dual mounted feeders or single mounted sub-feeds. The maximum ampacity of the breakers selected will determine the width of panelboard needed.

Feed location: Top or bottom

Incoming type: Main lug only (MLO), main circuit breaker (MCB, either vertically or horizontally mounted) and with feed-through lugs or sub-feed breakers

Busbar ratings: 125 A, 225 A, 250 A, 400 A, 600 A, 800 A

Busbar material: Bare, silver-plated or tin-plated copper, tin-plated aluminum, heat-rated or density-rated (fully)

Available environmental enclosure types:
- NEMA 1
- NEMA 3R
- NEMA 4/4X
- NEMA 12

Key features
- 30" wide options for increased access to gutter space
- Blank end walls are standard; end walls with knockouts available as an option
- NEMA 4/4X/12 enclosures made of 316 stainless steel or painted galvaneal for harsh indoor/outdoor conditions (corrosion-resistant, water-tight and dust-proof)
- Optional locks, Yale, Best or Corbin, corrosion-resistant catch and locking door latch offering (doors over 48" high provide two latches)
- Optional field-installable metal directory frames available
- Lighting contactor and stud only options are available

Molded case circuit breakers

Absolute attention to detail, with style — from design to manufacturing, Formula A2 and Tmax XT circuit breakers set the standard for edge technologies to deliver XTreme performance. With superior quality and advanced features such as higher interrupt ratings (up to 200 kA), Ekip DIP and thermal magnetic trip units, Formula A2 and Tmax XT circuit breakers support low tier to high tier customers.

Tmax XT, Formula A2, and legacy GE circuit breakers

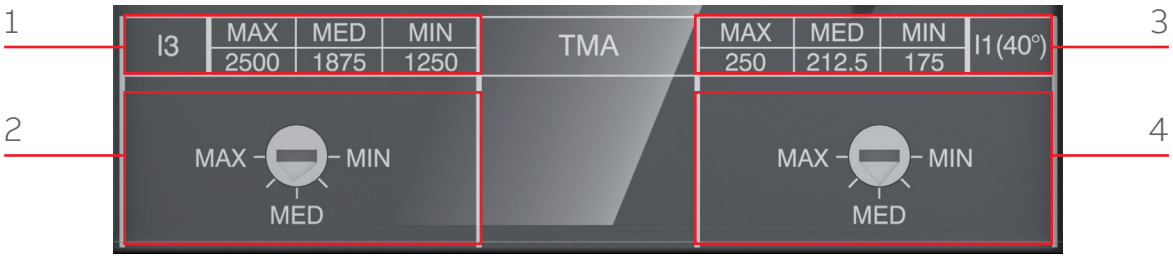
			Formula A2	XT1	XT4	XT5	XT6
Frame size		(A)	225	125	250	400 and 600	800
Poles			2, 3	3*	3*	3*	3*
Amperage		(A)	125–225	15–125	25–250	250–600	600–800
Max. rated voltage		(V)	240	480	600	600	600
Trip units			Thermal magnetic fixed (TMF)	Thermal magnetic fixed (TMF)	Thermal magnetic fixed (TMF) Ekip DIP LSI	Thermal magnetic adjustable (TMA) Ekip DIP LSI	Thermal magnetic adjustable (TMA) Ekip DIP LSI
Max. interrupting rating	240 V AC	(kA)	10	100	200	200	100
	480 V AC		–	65	100	65	50

*3-pole can be used in a 2-pole application
**1-pole rated 15–70 A
†1-pole rated 15–60 A
†1-pole max. (kA) 14

Note: Formula A2 replaces TQD and THQD | XT1 or XT4 replaces SE | XT4 replaces SF | XT5 replaces SG | XT6 replaces SK
TMF: Thermo-Mag Fixed: No Adjustments Possible
TMA: Thermo-Mag Adjustable: Adjustable Thermal (L) & Magnetic (I)

Tmax XT trip units — thermal magnetic adjustable and Ekip DIP LSI

Thermal magnetic adjustable



Key:
1. Current threshold for short circuit protection.
2. Rotary switch for short circuit protection.
3. Current threshold for overload protection.
4. Rotary switch for overload threshold setting.







THQB (bolt-on) THQL (plug-on)	THHQB (bolt-on) THHQL (plug-on)	TEY	TEYF	TEYD	TEYH	TEYL
100	100	100	100	100	100	100
1, 2, 3	1, 2, 3	1†,2, 3	1†, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
15–100**	15–100**	15–100	15–100‡	15–125**	15–125**	15–125**
240	240	480	480	480	480	480
Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
10	22	65	65	65	65	100
–	–	14	18	25	35	65

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Ekip DIP LSI or adjustable L, S, and I

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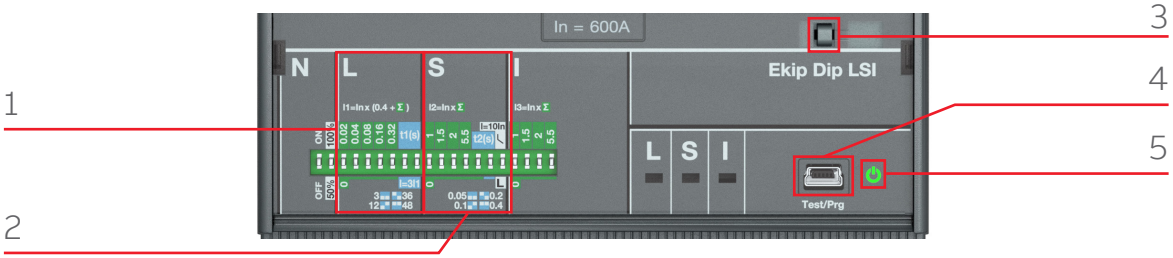
Key:
1. DIP switches for overload protection setting.
2. DIP switches for short circuit and time-delayed short circuit protection settings.
3. Slot for lead seal.
4. Test connector.
5. Power-on LED.



Products in detail

RQ

- 240 V max., 1- or 3-phase
- 125–800 A; 10-65 kAIC
- RQ: Bolt-on THQB breakers

RL

- 240 V max., 1- or 3-phase
- 125–800 A; 10–65 kAIC
- RL: Plug-in THQL breakers

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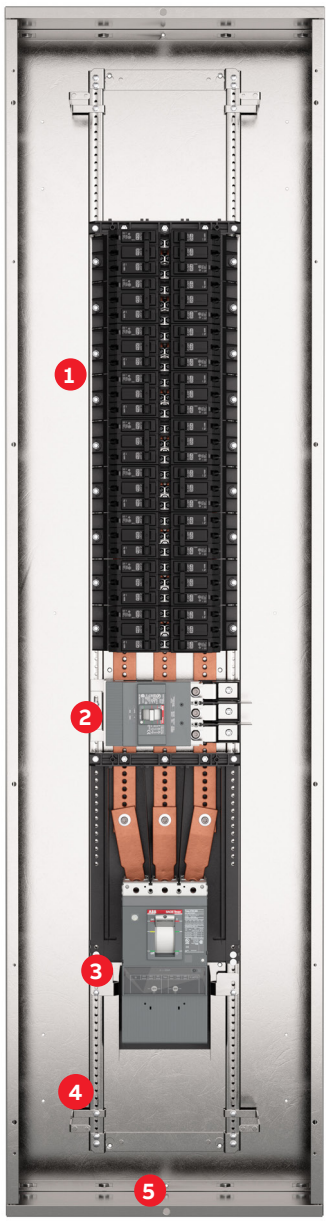
ReliaGear RQ lighting panelboard (as shown on left)
1. Bolt-on THQB branch breakers
2. Formula A2 horizontal sub-feed breaker
3. Main breaker: Tmax XT5, Tmax XT trip unit: thermal-mag adjustable (TMA)
4. Bottom feed



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ReliaGear RL lighting panelboard (as shown on right)
1. NEMA 1 enclosure —surface mounted
2. Plug-in THQL branch breakers
3. Sub-feed branch mounted breaker: Formula A2, Formula A2 trip unit: thermal-mag fixed (TMF)
4. Main breaker: Tmax XT5 Tmax XT trip unit: thermal-mag adjustable (TMA)
5. Bottom feed

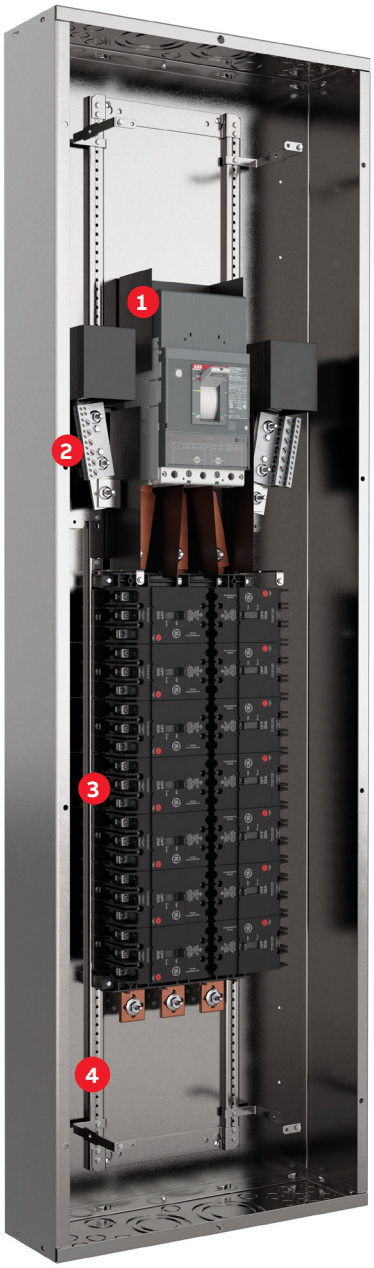
RE

- 480Y/277 V max., 3-phase
- 125–800 A
- RE: 18 kAIC at 480Y/277 V; 65 kAIC at 240 V
- RE: Bolt-on TEY(F) breakers
- Main lugs 125-800A up to 250VDC & Main breaker 125A at 250VDC max

RS

- 480Y/277 V max., 3-phase
- 125–800 A
- RS: 100 kAIC at 240 V; 65 kAIC at 480 V
- RS: Bolt-on TEY(D/H/L) breakers
- Main lugs 125-800A up to 250VDC & Main breaker 125A at 250VDC max

—
ReliaGear RE lighting panelboard (as shown on left)
1. Main breaker: Tmax XT5, Tmax XT trip unit: thermal-mag adjustable (TMA)
2. Skewed neutrals for 200% neutral or feed-thru lugs at 600 A
3. Bolt-on TEYF branch breakers
4. Optional feed-thru lugs require extended bus bar



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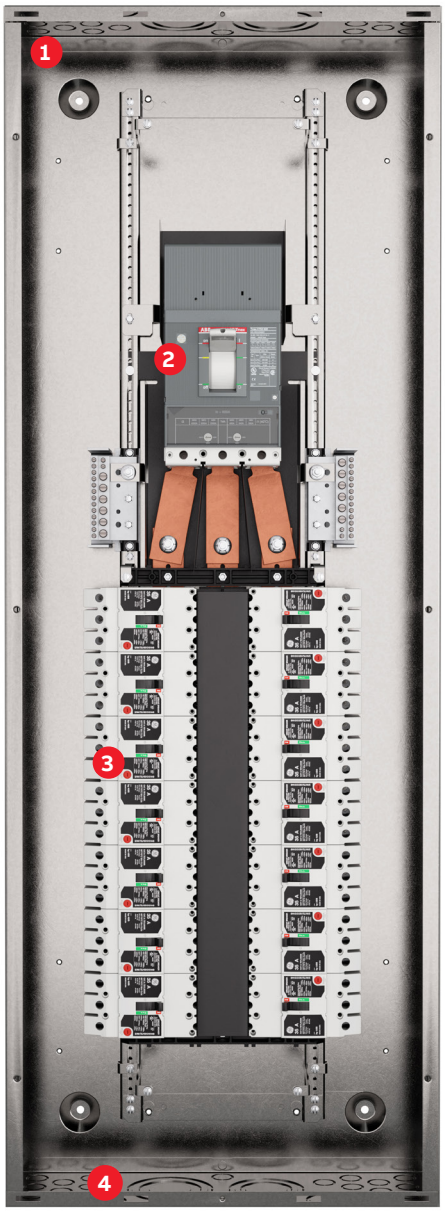
ReliaGear RS lighting panelboard (as shown on right)
1. Incoming cable gutter space
2. Main breaker: Tmax XT5, Tmax XT trip unit: thermal-mag adjustable (TMA)
3. Bolt-on TEYL branch breakers
4. End walls with knockouts available as an option in NEMA 1 enclosures



Optional features

AMP1 integrated power and energy meter
The AMP1 integrated power and energy meter monitors key electrical parameters of the main power coming into the panelboard. The factory-installed AMP1 meter is a completely integrated solution ideal for tenant billing and cost allocation.

Key features
- Up to 800 A
- Data logging
- Communicates via Modbus RTU or BACnet
- Externally mounted retrofit kits available

Branch circuit monitoring (BCM)
Branch circuit monitoring (BCM) helps deliver valuable and precise branch usage data on each individual branch circuit, enabling users to analyze and identify potential cost-saving actions.

Key features
- Solid core branch circuit monitoring for 42 or 84 circuits with optional mains
- Split core monitors up to 66 circuits in a main breaker panel and up to 84 circuits in a main lug panel
- Communicates with Modbus RTU via RS485

Surge protective device (SPD)
The ReliaGear lighting panelboard offers integrated SPDs with ratings of 100 kA, 80 kA and 65 kA per mode. Box extension SPDs are also offered in the ReliaGear lighting panelboards for new or aftermarket installations. The box extension can be attached precisely to a standard panel at the top or bottom without creating additional width or depth satisfying customer project requirements.

Key features
- 10 modes of protection (L-N, L-G, N-G, L-L)
- Green status indicating lights, red service light
- Audible alarm with test/disable feature

ASHRAE 90.1, CA Title 24 & IECC solutions
Branch circuit monitoring (BCM) upgradeable panels, splits-bus panels, and AMP1 single point metering are designed to meet California Title 24, part 6, §130.5(b), ASHRAE 90.1-2013, and IECC's building energy efficiency standards.

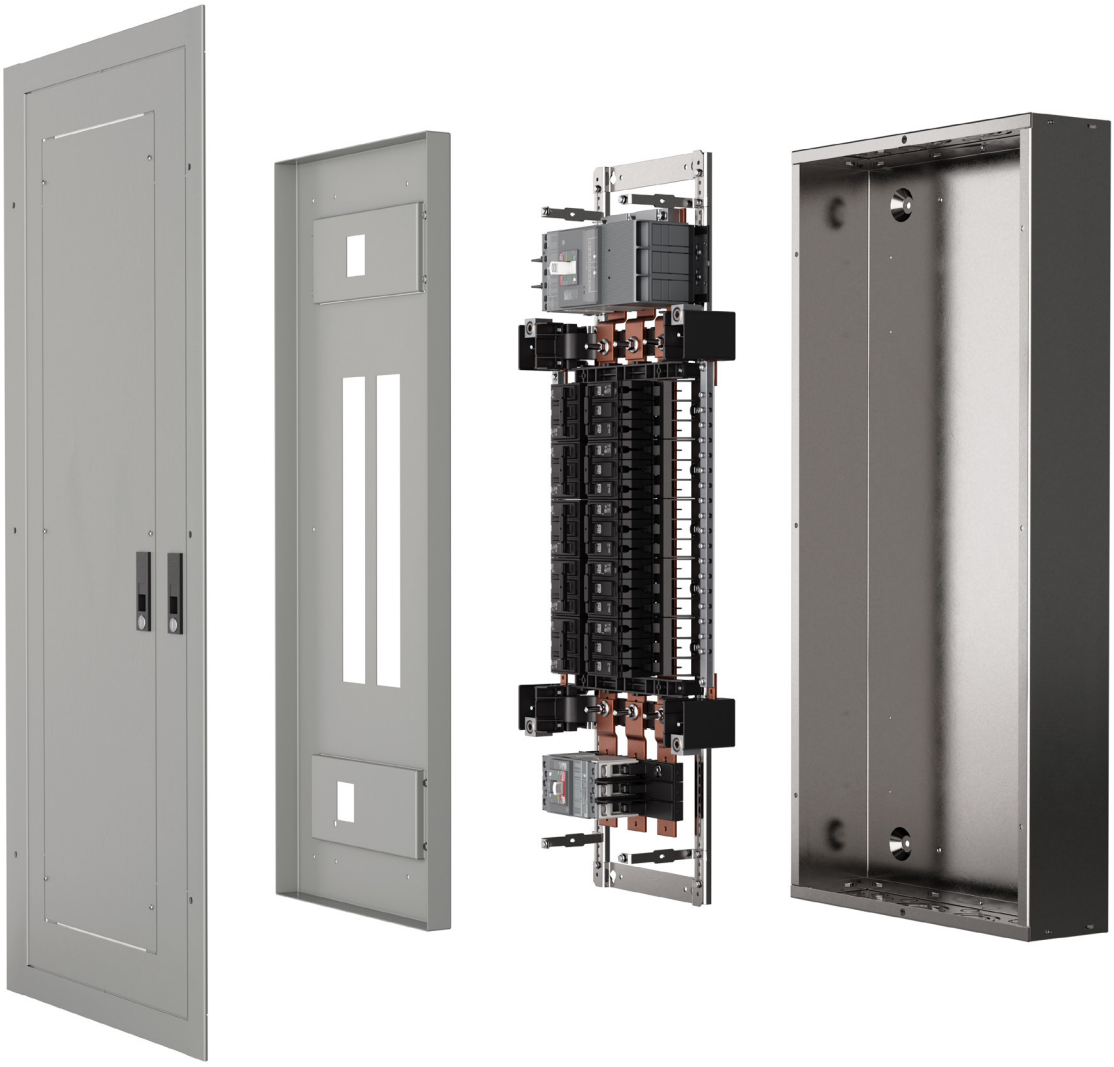
With same-day availability and exceptional lead times, ReliaGear Pro-Stock lighting panelboards offer a competitive advantage for projects where time is critical.

ReliaGear Pro-Stock panelboards
Flexibility to the XTreme

ReliaGear Pro-Stock panelboards offer a symmetrical design for top or bottom feed with main breaker or main lugs. With a reversible interior, there is no need to specify top or bottom feed. Modular kits are available from inventory for immediate availability to your customers in over 1,500 panel designs.

Key features
- All panels are convertible between main lugs or main breaker
- Main bus ratings of 225 A, 400 A and 600 A available
- 100–600 A available
- 240 V AC 1- or 3-phase or 480Y/277 V AC 3-phase

Applications
ReliaGear Pro-Stock lighting panelboards are used for small projects and non-specific applications that are needed fast.
- Emergency situations like natural disasters or property damage
- Storage units
- Strip malls
- Subways
- Small businesses, buildings and more



ReliaGear Pro-Stock panelboards

100–600 A

Full-panel height neutral bar connections for point-of-ease installations with improvements in wire bending space and ease of connections to breakers.

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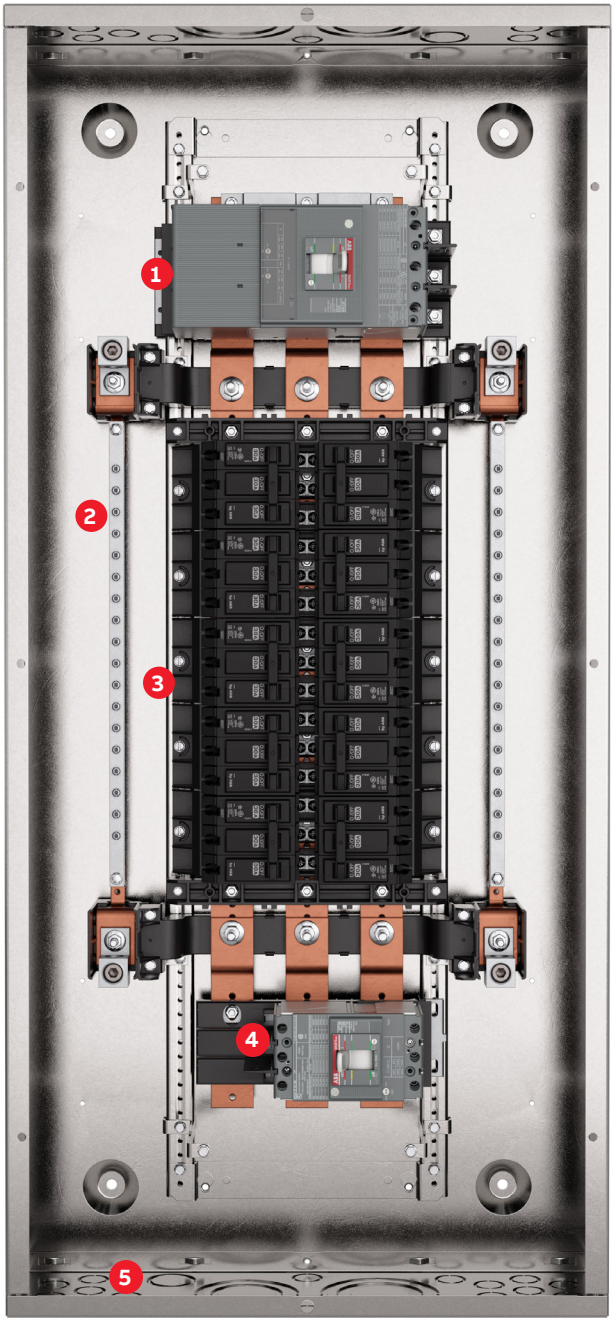
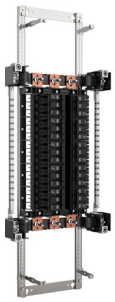
ReliaGear Pro-Stock lighting panel

1. Horizontal-mounted main breaker: Tmax XT4, Tmax XT trip unit: thermal-mag adjustable (TMA)
2. Full-panel height neutral bar connections (on the right and left)
3. THQB branch breakers
4. Horizontal-mounted sub-feed breaker: Formula A2
5. End walls with knockouts available as an option in NEMA 1 enclosures



Pro-Stock lighting panelboards

Unassembled lighting panels



Pro-Stock lighting panelboards are XTtremely easy to install. A Pro-Stock lighting panel can be installed in less than 30 minutes with only three tools.

Using the empower configuration tool, follow the steps below to build a ReliaGear Pro-Stock lighting panelboard:

1. Select interior
Select the interior by bus type, panel rating and number of circuits. Identify the box/front height for use in steps 2 and 3.

Copper bus

			Feed-thru		Non feed-thru		
Voltage	**Rating (amps)**	**No. of circuits**	**Product number[1]**	**Box/front height (in.)**	**Product number[1]**	**Box/front height (in.)**	**TGL2 ground bars[2,3]**
240 V AC, 1-Phase	100–225	18	AQU1182RCXAXT1B4	37.5	AQU1182RCXAXB4	31.5	2
		30	AQU1302RCXAXT1B4	43.5	AQU1302RCXAXB4	37.5	3
		42	AQU1422RCXAXT1B4	49.5	AQU1422RCXAXB4	43.5	4
	400	18	AQU1184RCXAXT1B4	64.5	–	–	2
		42	AQU1424RCXAXT1B4	76.5	AQU1424RCXAXB4	64.5	4
	600	18	AQU1186RCXAXT1B4	64.5	–	–	2
		42	AQU1426RCXAXT1B4	76.5	AQU1426RCXAXB4	64.5	4
208/120 V AC, 3-Phase	100–225	18	AQU3182RCXAXT1B4	37.5	AQU3182RCXAXB4	31.5	2
		30	AQU3302RCXAXT1B4	43.5	AQU3302RCXAXB4	37.5	3
		42	AQU3422RCXAXT1B4	49.5	AQU3422RCXAXB4	43.5	4
	400	18	AQU3184RCXAXT1B4	64.5	–	–	2
		42	AQU3424RCXAXT1B4	76.5	AQU3424RCXAXB4	64.5	4
	600	18	AQU3186RCXAXT1B4	64.5	–	–	2
		42	AQU3426RCXAXT1B4	76.5	AQU3426RCXAXB4	64.5	4
480/277 V AC, 3-Phase	100–225	18	AEU3182RCXAXT1B4	37.5	AEU3182RCXAXB4	31.5	2
		30	AEU3302RCXAXT1B4	43.5	AEU3302RCXAXB4	37.5	3
		42	AEU3422RCXAXT1B4	49.5	AEU3422RCXAXB4	43.5	4
	400	18	AEU3184RCXAXT1B4	64.5	–	–	2
		42	AEU3424RCXAXT1B4	76.5	AEU3424RCXAXB4	64.5	4
	600	18	AEU3186RCXAXT1B4	64.5	–	–	2
		42	AEU3426RCXAXT1B4	76.5	AEU3426RCXAXB4	64.5	4

Aluminum bus

			Feed-thru		
Voltage	**Rating (amps)**	**No. of circuits**	**Product number[1]**	**Box/front height (in.)**	**TGL2 ground bars[2,3]**
240 V AC, 1-Phase	100–225	18	AQU1182RCXAXT1	37.5	2
		30	AQU1302RCXAXT1	43.5	3
		42	AQU1422RCXAXT1	49.5	4
208/120 V AC, 3-Phase	100–225	18	AQU3182RCXAXT1	37.5	2
		30	AQU3302RCXAXT1	43.5	3
		42	AQU3422RCXAXT1	49.5	4
480/277 V AC, 3-Phase	100–225	18	AEU3182RCXAXT1	37.5	2
		30	AEU3302RCXAXT1	43.5	3
		42	AEU3422RCXAXT1	49.5	4

TGL20 ground lug quantities

			No. of TGL20s required by panel rating
Interior type	**100 A–225 A**	**400 A**	**600 A**
Main lug only	1	1	2
Main lug and feed-thru	2	2	4
Main breaker only	1	1	1
Main breaker and sub-feed	1	1	1
Main breaker and feed-thru	2	2	3

[1] For CSA label, add "M8" suffix to product number.
[2] For TGL20 ground lug quantities, see TGL20 ground lug quantities table above.
[3] For isolated ground, use EGS12. When using the EGS12, 3, 5 and 7 ground lugs (TGL20s) are required for 18, 30 and 42 circuits respectively.

Pro-Stock lighting panelboards

Unassembled lighting panels

2. Choose box

Select a box of the correct height (see step 1). Boxes come with blank endwalls.
If endwalls with knockouts are required, also order knockout endwall kit AKEW2.

Note: This is only available for 20" wide NEMA 1 enclosures.

NEMA 1

NEMA 3R

NEMA 4/4X/12 painted galvaneal, 30" wide

NEMA 4/4X/12 stainless steel

Box height (in.)	NEMA 1 20" Wide	NEMA 1 30" Wide	20" Wide	NEMA 3R 20" Wide	NEMA 4, 4X and 12 painted galvaneal 20" Wide	NEMA 4, 4X and 12 painted galvaneal 30" Wide	NEMA 4, 4X and 12 stainless steel 20" Wide	NEMA 4, 4X and 12 stainless steel 30" Wide
25.5	–	–	–	–	–	–	AB254S	AB254DWS
31.5	AB31B	AB31BW	AB313	AB31DW	AB314	AB314DW	AB314S	AB314DWS
37.5	AB37B	AB37BW	AB373	AB37DW	AB374	AB374DW	AB374S	AB374DWS
43.5	AB43B	AB43BW	AB433	AB43DW	AB434	AB434DW	AB434S	AB434DWS
49.5	AB49B	AB49BW	AB493	AB49DW	AB494	AB494DW	AB494S	AB494DWS
55.5	AB55B	AB55BW	AB553	AB55DW	AB554	AB554DW	AB554S	AB554DWS
64.5	AB64B	AB64BW	AB643	AB64DW	AB644	AB644DW	AB644S	AB644DWS
76.5	AB76B	AB76BW	AB763	AB76DW	AB764	AB764DW	AB764S	AB764DWS

3. Add a front

Add a front of the correct height (available for NEMA 1 enclosures only)

Standard

Door within door

Front hinged to box

- Standard fronts are equipped with concealed hinges and trim adjusting screws.
- The door-in-door is convenient for contractors to gain easy access to equipment from the front of the panel. Door-in-door allows a contractor access to the gutters without removing the front.
- Front hinged to box is similar to door-in-door for convenient access to gutters, but a contractor must remove four screws to access the outer door.

Front height (in.)	Standard (20 wide) Flush [1]	Standard (20 wide) Surface [1]	Door within door (20 wide) Flush [1]	Door within door (20 wide) Surface [1]	Front hinged to box (20 wide) Flush [1]	Front hinged to box (20 wide) Surface [1]	Standard (30 wide) Flush [1]	Standard (30 wide) Surface [1]
31.5	AF31F	AF31S	AF31FP	AF31SP	AF31FD	AF31SD	AF31FW	AF31SW
37.5	AF37F	AF37S	AF37FP	AF37SP	AF37FD	AF37SD	AF37FW	AF37SW
43.5	AF43F	AF43S	AF43FP	AF43SP	AF43FD	AF43SD	AF43FW	AF43SW
49.5	AF49F	AF49S	AF49FP	AF49SP	AF49FD	AF49SD	AF49FW	AF49SW
55.5	AF55F	AF55S	AF55FP	AF55SP	AF55FD	AF55SD	AF55FW	AF55SW
64.5	AF64F	AF64S	AF64FP	AF64SP	AF64FD	AF64SD	AF64FW	AF64SW
76.5	AF76F	AF76S	AF76FP	AF76SP	AF76FD	AF76SD	AF76FW	AF76SW

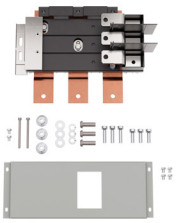
[1] For CSA label, add A suffix to product number.

Pro-Stock lighting panelboards

Unassembled lighting panels

4. Select main and/or sub-feed breaker kit

Select the main breaker kit appropriate for your interior type (see step 1), amp rating and kAIC rating.
If a sub-feed breaker is required, repeat the selection process.



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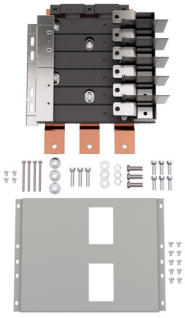

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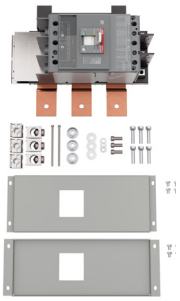

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MBB33WB

Interior type	Cat. no.[1]	Rating (Amps)	No. of poles	Breaker short circuit rating (kAIC)								
				10	14	22	25	35	50	65	100	150	200
AQU1: 240 V AC 1-Phase	MB612	100	2	THQB	–	THHQB	–	–	–	–	–	–	–
	MB614	100	4	(x2) THQB	–	(x2) THHQB	–	–	–	–	–	–	–
	MBA12	225	2	A2A	–	A2N[2]	–	–	–	–	–	–	–
	MBM324	400	2	–	–	–	–	–	–	XT5N	XT5S	XT5H	XT5L
	MBM124WB	400	2[3]	–	–	–	–	–	–	XT5N	–	–	–
AQU3: 208/120 V AC, 3-Phase	MB613	100	3	THQB	–	THHQB	–	–	–	–	–	–	–
	MB616	100	6	(x2) THQB	–	(x2) THHQB	–	–	–	–	–	–	–
	MBA13	225	3	A2A	–	A2N[2]	–	–	–	–	–	–	–
	MBA16	400	6	(x2) A2A	–	(x2) A2N[2]	–	–	–	–	–	–	–
	MBB33	225	3	–	–	–	–	–	–	XT4N	XT4S	XT4H	XT4L
	MBB13WB	225	3	–	–	–	–	–	–	XT4N	–	–	–
	MBB36[5]	400	6[5]	–	–	–	–	–	–	(x2) XT4N	(x2) XT4S	(x2) XT4H	(x2) XT4L
	MBB16WB[5]	400	6[5]	–	–	–	–	–	–	(x2) XT4N	–	–	–
	MBM334	400	3	–	–	–	–	–	–	XT5N	XT5S	XT5H	XT5L
	MBM134WB	400	3	–	–	–	–	–	–	XT5N	–	–	–
	MBM124WB[4]	400	2[3]	–	–	–	–	–	–	XT5N	–	–	–
AEU3; 480/277 V AC, 3-Phase	MB423	100	3	–	TEY	–	–	–	–	–	–	–	–
	MB426	100	6	–	(x2) TEY	–	–	–	–	–	–	–	–
	MBC33	125	3	–	–	–	XT1N	XT1S	–	XT1H	–	–	–
	MBC33WB	125	3	–	–	–	–	–	–	XT1H	–	–	–
	MBB33	225	3	–	–	–	XT4N	XT4S	–	XT4H	XT4L	XT4V	XT4X
	MBB33WB	225	3	–	–	–	–	–	–	XT4H	–	–	–
	MBB36[5]	400	6[5]	–	–	–	(x2) XT4N	(x2) XT4S		(x2) XT4H	(x2) XT4L	(x2) XT4V	(x2) XT4X
	MBB36WB[5]	400	6[5]	–	–	–	–	–	–	(x2) XT4H	–	–	–
	MBM334	400	3	–	–	–	–	XT5N	XT5S	XT5H	XT5L	XT5V	XT5X
	MBM334WB	400	3	–	–	–	–	–	–	XT5H	–	–	–
	MBM324WB[4]	400	2[3]	–	–	–	–	–	–	XT5H	–	–	–

(1) Breaker not included except for “WB” kits (where product number ends in “WB”). “WB” kits include a breaker, mounting kit and load-side lugs.
(2) Actual breaker short circuit rating is 25 kAIC.
(3) Use 2 outer poles from the 3 available poles.
(4) For sub-feed application only.
(5) 6 poles of sub-feed applies only to 400 A and 600 A interiors.

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5. Select alternative main breakers

- Skip step 5 if you selected a main breaker kit ending in "WB" — no breaker is required.
- To correlate breaker types with the kAIC rating in specific panelboards, see the table for step 4. For more rating details, see ReliaGear lighting panels rating series labels (1TQC173100E0001).
- All Tmax XT and Formula A2 main breakers require line-side lugs.
- For TEY and THQB main breakers, see branch breakers tables in step 7.

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Tmax XT breakers (3-pole) for use with appropriate main breaker kit (see step 4).

Breaker			Terminal lugs for front connection[1]	
Poles	Current sensor (A)	Product number	Wire range (Cu/Al)	Cables per lug
3	100	XT1NU3100AFD000XXX	Cu Al 1x14–2/0 AWG	1
		XT1SU3100AFD000XXX	Cu Al 1x14–2/0 AWG	1
		XT1HU3100AFD000XXX	Cu Al 1x14–2/0 AWG	1
		XT4LU3100AFJ000XXX	Cu Al 1x4 AWG–300 kcmil	1
	150	XT4NU3150AFJ000XXX	Cu Al 1x4 AWG–300 kcmil	1
		XT4SU3150AFJ000XXX	Cu Al 1x4 AWG–300 kcmil	1
		XT4HU3150AFJ000XXX	Cu Al 1x4 AWG–300 kcmil	1
		XT4LU3150AFJ000XXX	Cu Al 1x4 AWG–300 kcmil	1
	250	XT4SU3250AFL000XXX	Cu Al 1x3/0 AWG–350 kcmil (2)	1
		XT4HU3250AFL000XXX	Cu Al 1x3/0 AWG–350 kcmil (2)	1
		XT4LU3250AFL000XXX	Cu Al 1x3/0 AWG–350 kcmil (2)	1
3	400	XT5SU340ABFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
		XT5HU340ABFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
		XT5LU330ABFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
2	400	XT5SU340ABFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
		XT5HU340ABFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
		XT5LU330ABFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
3	600	XT5HU360BBFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
		XT5LU350BBFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
2	600	XT5HU360BBFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2
		XT5LU350BBFN000XXX	Cu Al 2x2/0 AWG–500 kcmil	2

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Main or sub-feed breakers for use with RQ panels (208/120 V AC 3-phase or 240 V AC single-phase). See step 4.

	2-pole		3-pole	
	10 kAIC	22 kAIC	10 kAIC	22 kAIC
Amp rating	Product[3] number	Product number	Product number	Product number
125	A2A125TL-2	A2N125TL-2	A2A125TT	A2N125TT
150	A2A150TL-2	A2N150TL-2	A2A150TT	A2N150TT
175	A2A175TL-2	A2N175TL-2	A2A175TT	A2N175TT
200	A2A200TL-2	A2N200TL-2	A2A200TT	A2N200TT
225	A2A225TL-2	A2N225TL-2	A2A225TT	A2N225TT

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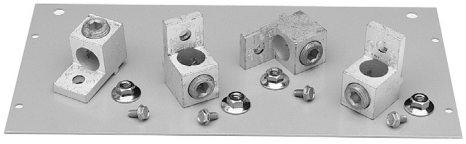
Main or sub-feed breakers for use with RQ panels (480/277 V AC 3-phase). See step 4.

			3-pole
	10 kAIC	22 kAIC	10 kAIC
Amp rating	Product number	Product number	Product number
100	TED134110WL	THED134110WL	MB233WB
125	TED134125WL	THED134125WL	MB233WB
150	TED134150WL	THED134150WL	MB233WB
175	–	–	MB233WB
200	–	–	MB233WB
225	–	–	MB233WB

Pro-Stock lighting panelboards

Unassembled lighting panels



6. Select main lug kit and accessories

Select lug kit(s) for main lug and/or feed-thru applications, if required. All lugs are suitable for interiors with either copper or aluminum bus. Also select any accessories required.

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Main lug kits

		Standard		Oversized		200% Neutral
Lug type	**Amp rating**	**Product number**	**Wire range**	**Product number**	**Wire range**	**Product number**
Pressure	225	MLA1	6–350 kcmil	MLA2	1-600 kcmil or (2) 1/0-250 kcmil	NKA
	400	MLA41	2–600 kcmil or (2) 1/0–250 kcmil	MLA62	3/0-800 kcmil	NKA4[2]
	600	MLA61	(2) 2/0–500 kcmil	MLA62	3/0-800 kcmil	–
Copper	225	MLR1	4–450 kcmil	MLR2	1-600 kcmil	NKR
	400	MLR41	1–600 kcmil	MLR61	(2) 2/0-500 kcmil	NKR4
	600	MLR61	(2) 2/0–500 kcmil	–	–	–
Compression	225	MLT1	2/0–300 kcmil	MLT2	4/0-500 kcmil	NKT
	400	MLT42	250–600 kcmil	MLT41	500-750 kcmil[1]	NKT4
Dual	225	MLA2	2–600 kcmil or (2) 1/0–250 kcmil	–	–	–
Main	400	MLA61	(2) 2/0–500 kcmil	–	–	–

[1] 500 kcmil Cu, 750 kcmil Al.

[2] For 200% neutral feed-thru, order NKA4FT, (GO-101P). Wire range (2) 2/0–600 kcmil or (4) 4–250 kcmil.

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Accessories

Service entrance[3]	
Amp rating	**Product number**
225	BNDKT
400	BNDKT6
600	BNDKT6

[3] Service entrance kit includes a bonding strap with hardware and a service entrance label.

ProCare kit[4]	
Description	**Product number**
ProCare Kit for Pro-Stock panelboard installation and maintenance	PROCARE

[4] ProCare Kit includes: (5) filler plate hardware kits, (9) bus stud nuts, (5) MLA1 filler plates, (2) 225A-phase barriers, (2) feed-thru barriers, (1) 400/600A-phase barrier, (50) directory cards/rating books, (50) circuit number strips (1–48), (50) circuit number strips (43–84), (5) standard locks and keys, (50) deadfront screws, (10) RQ/RE front hardware kits, (10) AD front hardware kits, (50) service disconnect labels, (50) main labels.

Pro-Stock lighting panelboards

Unassembled lighting panels

7. Select bolt-on branch breakers

The tables below show standard branch breakers.

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Branch circuit breakers for use with RQ panels (208/120 V AC 3-phase or 240 V AC single-phase)

			10 kAIC			22 kAIC
	1-pole	2-pole	3-pole	1-pole	2-pole	3-pole
Amp rating	Product number	Product number	Product number	Product number	Product number	Product number
15	THQB1115	THQB2115	THQB32015	THHQB1115	THHQB2115	THHQB32015
20	THQB1120	THQB2120	THQB32020	THHQB1120	THHQB2120	THHQB32020
25	THQB1125	THQB2125	THQB32025	THHQB1125	THHQB2125	THHQB32025
30	THQB1130	THQB2130	THQB32030	THHQB1130	THHQB2130	THHQB32030
35	THQB1135	THQB2135	THQB32035	THHQB1135	THHQB2135	THHQB32035
40	THQB1140	THQB2140	THQB32040	THHQB1140	THHQB2140	THHQB32040
45	THQB1145	THQB2145	THQB32045	THHQB1145	THHQB2145	THHQB32045
50	THQB1150	THQB2150	THQB32050	THHQB1150	THHQB2150	THHQB32050
60	THQB1160	THQB2160	THQB32060	THHQB1160	THHQB2160	THHQB32060
70	THQB1170	THQB2170	THQB32070	THHQB1170	THHQB2170	THHQB32070
80	–	THQB2180	THQB32080	–	THHQB2180	THHQB32080
90	–	THQB2190	THQB32090	–	THHQB2190	THHQB32090
100	–	THQB21100	THQB32100	–	THHQB21100	THHQB32100

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Branch circuit breakers for use with RE panels (480/277 V AC 3-phase)

			14 kAIC
	1-pole	2-pole	3-pole
Amp rating	Product number	Product number	Product number
15	TEY115	TEY215	TEY315
20	TEY120	TEY220	TEY320
30	TEY130	TEY230	TEY330
40	TEY140	TEY240	TEY340
50	TEY150	TEY250	TEY350
60	TEY160	TEY260	TEY360
70	TEY170	TEY270	TEY370
80	TEY180	TEY280	TEY380
90	TEY190	TEY290	TEY390
100	TEY1100	TEY2100	TEY3100

8. The selection is completed, now submit your order

For more information or support, please contact your ABB local representative.

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