TECHNICAL INFORMATION

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ReliaGear® neXT Power Panelboard

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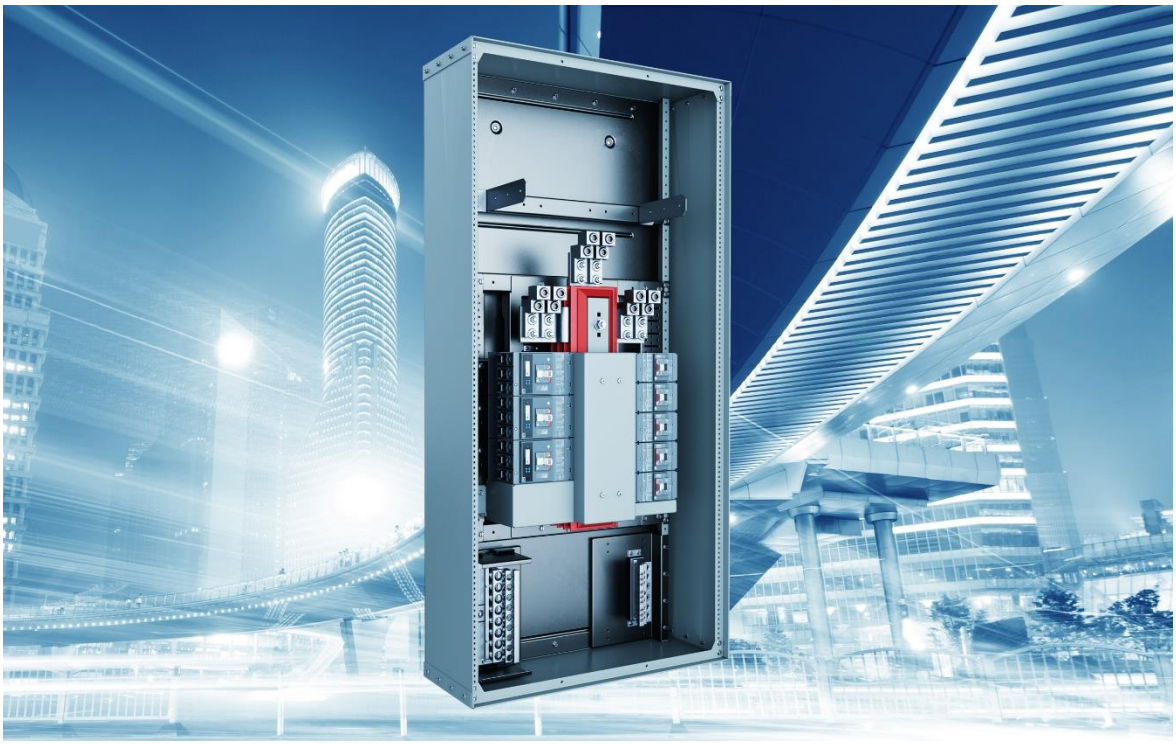

1. Introduction

With this Technical Sales Information, we are glad to inform you about the release of DC ratings inside ReliaGear neXT power panelboard.

This upgraded offering allows us to compete in the market on projects with DC distribution panelboards with 1200A Main Lug or 800A Main Breaker panels with up to 250V DC, 2 wire ratings up to 50kA.

2. DC ratings

With this release, we have now qualified ReliaGear neXT power panelboards for DC applications taking advantage of our unique IP20 finger safe bus stack and the DC ratings available on our plug-in circuit breakers (FB, TEY, XT1, XT2, A2, XT4, XT5, XT6).

At a glance:

Maximum Main Ampacity: 800A Main Breaker, 1200A Main Lug

Voltages: 125V DC 2 Wire, 250V DC 2 Wire

Maximum Short Circuit Rating: 50 kaIC

Main and Branch breakers available can be found in table below along with their associated number of poles, kaIC ratings, and ampacity. Trip units are limited to thermal magnetic only.

DC applications in ReliaGear neXT will take advantage of our single-phase bus stacks utilizing phase A and C connections. DC panels will be provided with a ground.

Breaker	Main vs. Branch	Voltage	Poles	Max kaIC Rating	Frame Amps
FBV	Branch	125 DC 2 wire 250 DC 2 wire	2	25	100
FBN				30	
FBH				42	
FBL				50	
	Branch	125 DC 2 wire	1	14	70
			2	42	125
TEYL		250 DC 2 wire	2	18	125
XT1N125	Branch	125 DC 2 wire 250 DC 2 wire	2	35	125
XT1S125				42	
XT1H125				50	
XT2N125	Branch	125 DC 2 wire 250 DC 2 wire	2	35	125
XT2S125				50	
A2A250	Branch	125 DC 2 wire 250 DC 2 wire	2	10	250
A2N250				25	
XT4N250	Main and branch	125 DC 2 wire 250 DC 2 wire	2	35	250
XT4S250				42	
XT4H250				50	
XT5N400	Main and branch	125 DC 2 wire 250 DC 2 wire	2	35	400
XT5S400				50	
XT5N600		125 DC 2 wire 250 DC 2 wire	2	35	600
XT5S600				50	
XT6N800	Main and branch	125 DC 2 wire 250 DC 2 wire	2	35	800
XT6S800				50	

The single-phase bus stack offering that will be utilized for DC applications in ReliaGear neXT can be found in the table below under column headings for Bus Type denoted with “1P”.

Possible combinations of bus stack and plating type

Bus height				16X				24X–32X–40X
Bus type	**1P–Silver**	**1P–Tin**	**3P–Silver**	**3P–Tin**	**1P–Silver**	**1P–Tin**	**3P–Silver**	**3P–Tin**
Bus amperage								
250 A			•	•	•	•	•	•
400 A			•	•	•	•	•	•
600 A			•	•	•	•	•	•
800 A			•	•	•	•	•	•
1000 A			•		•		•	
1200 A			•	•	•	•	•	•

1P–Silver: Single-phase silver plating
1P–Tin: Single-phase tin plating
3P–Silver: Three-phase silver plating
3P–Tin: Three-phase tin plating

3. Marketing tools

All the documents are currently being updated and will be available through the dedicated internal launch portal.

4. Availability and lead time

The new features are already available to the market, through Empower.