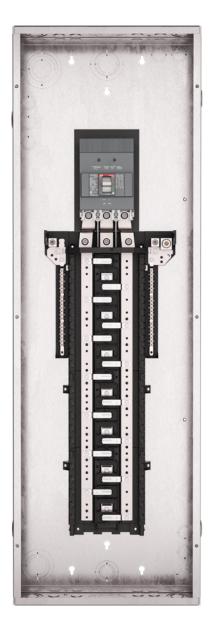


# PowerMark™ Plus Three Phase Load Centers with SACE FORMULA A circuit breakers

PowerMark Plus Three Phase Load Centers receive power from the utility source and safely distribute it throughout commercial and highrise applications to feed and protect branch circuits. PowerMark Plus Three Phase Load Centers are now delivered with SACE Formula A2 factory-installed main circuit breakers or with main lugs.



SACE FORMULA A2 circuit breakers replace GE legacy TQD/THQD circuit breakers, delivering a superior performance and increased reliability in a sturdy and modern frame. The protection trip unit has fixed thermal and magnetic threshold values for rapidly putting the circuit breaker into service. SACE FORMULA A2 circuit breakers are UL 489 certified.

#### About ABB's SACE FORMULA

The SACE FORMULA reach up to 250 A. It is available in the fixed version with front terminals. In addition, the protection trip unit has fixed thermal and magnetic threshold values for rapidly putting the circuit breaker into service. SACE FORMULA A2 circuit breakers meet IEC 60947-2 standard and are UL 489 certified.

Learn more about SACE FORMULA circuit breakers at https://new.abb.com/low-voltage/products/circuit-breakers/formula

SACE FORMULA A2 circuit breakers are designed to be a simple-to-use breaker providing a high-level of quality and versatility. They are the optimum result of ABB's long history of technology innovation.

ABB's advanced FORMULA A2 circuit breaker



## POWERMARK PLUS THREE PHASE LOAD CENTER

#### **Key Benefits**

- FORMULA A2 breakers deliver superior performance and increased reliability in a sturdy and modern circuit breaker frame
- The galvanized box and tin-plated copper stabs ensure the reliability and durability of the load center
- Quick and easy selection and ordering with fewer stock-keeping units (SKUs)
- Full product range meet various applications

#### **Key Features**

- SACE FORMULA A2 circuit breakers
- Indoor fronts combination surface/flush
- Copper to copper stab connections with aluminum bus
- Bottom feed models available where noted with a "B" suffix

### **Technical specifications**

- 100 A through 225 A main ampere ratings
- 60°C/75°C conductor rating
- Outdoor NEMA 3R rated
- 22 kAIC symmetrical short circuit rating standard

### Standards and certifications

- Suitable for use as service entrance equipment when complying with the National Electrical Code (NEC)
- UL Listed (Panelboard No. 67)

PowerMark Plus Three Phase Load Centers technical specifications vary depending on the style. However, a reduced number of sales codes are available to simplify the selection and ordering. Please refer to the product website for a complete list.

# Cross-reference table

Туре	Enclosure	Main amphere		2 Pole 1" spaces	3 Pole 1" spaces	Total 1 pole spaces	Front type	Feed type	Box number	Main wire size 9AWG/ Kcmil) Cu-Al	Equipment ground kit	Replacement front	Product No.
Indoor	NEMA 1	150	24	12	8	24	Combination Flush / Surface Front	Тор	11	1-3/0 (Cu), 2/0-3/0 (AI)	TGK32 (order separately)	TM24BC3A2	TM244150
muoor	NEMAI	150	24	12	0	24	Combination	төр	11	1-3/0 (Cu), 2/0-3/0 (Al)	separatery)	IM24DC3A2	114244130
Indoor	NEMA 1	150	24	12	8	24	Flush / Surface Front	Bottom	11	1-3/0 (Cu), 2/0-3/0 (AI)	TGK32 (order separately)	TMB24BC3A2	TM24415CE
Outdoor	NEMA 3R	150	24	12	8	24		Тор	R6	1-3/0 (Cu), 2/0-3/0(AI)	TGK32 (order separately)	N/A - only a shield	TM24415F
							Combination						
Indoor	NEMA 1	200	24	12	8	24	Flush / Surface Front	Тор	12	1-300(Cu), 2/0-300 (AI)	TGK32 (order separately)	TM24DC3A2	TM244200
							Combination	•			. ,,		
ndoor	NEMA 1	200	24	12	8	24	Flush / Surface Front	Bottom	12	1-300(Cu), 2/0-300 (AI)	TGK32 (order	TMB24DC3A2	TM24420CI
muoor	NEMAI	200	24	12	0	24	Combination	Bottom	12	1-300(Cu), 2/0-300 (Al)	separately)	TMB24DC3A2	1112442001
							Flush / Surface				TGK32 (order		
Indoor	NEMA 1	125	30	14	10	30	Front	Тор	12	1-3/0 (Cu), 2/0-3/0 (AI)	separately)	TM30BC3A2	TM304120
							Combination Flush / Surface				TGK32 (order		
Indoor	NEMA 1	125	30	14	10	30	Front	Bottom	12	1-3/0 (Cu), 2/0-3/0 (AI)	separately)	TMB30BC3A2	TM30412CE
Outdoor	NEMA 3R	125	30	14	10	30	-	Тор	R7	1-3/0 (Cu), 2/0-3/0(AI)	TGK32 (order separately)	N/A only a shield	TM30412F
Outdoor	NEMASK	125	30	14	10	30	- Combination	ТОР	R/	1-3/0 (Cu), 2/0-3/0(Al)	separately)	N/A - only a shield	111304121
							Flush / Surface				TGK32 (order		
Indoor	NEMA 1	150	30	14	10	30	Front	Тор	12	1-3/0(Cu) 2/0-3/0(Al)	separately)	TM30EC3A2	TM304150
							Combination Flush / Surface				TGK32 (order		
Indoor	NEMA 1	150	30	14	10	30	Front	Bottom	12	1-3/0 (Cu), 2/0-3/0 (AI)		TMB30EC3A2	TM30415C
0.111		150	20			20		<b>T</b>	57		TGK32 (order		T1 420 44 57
Outdoor	NEMA 3R	150	30	14	10	30	- Combination	Тор	R7	1-3/0 (Cu), 2/0-3/0 (AI)	separately)	N/A - only a shield	TM30415F
							Flush / Surface				TGK32 (order		
Indoor	NEMA 1	200	30	14	10	30	Front	Тор	13	1-250 (Cu), 2/0-250 (AI)	separately)	TM30DC3A2	TM304200
							Combination Flush / Surface				TGK32 (order		
Indoor	NEMA 1	200	30	14	10	30	Front	Bottom	13	1-250 (Cu), 2/0-250 (AI)		TMB30DC3A2	TM30420CE
0.111		200	20			20		<b>T</b>	57	1 252 (2 ) 2 (2 252 (4))	TGK32 (order		<b>T</b> 14204200
Outdoor	NEMA 3R	200	30	14	10	30	- Combination	Тор	R7	1-250 (Cu), 2/0-250 (AI)	separately)	N/A - only a shield	TM30420F
							Flush / Surface				TGK42 (order		
Indoor	NEMA 1	150	42	20	14	42	Front	Тор	15	1-3/0(Cu) 2/0-3/0(Al)	separately)	TM42DC3A2	TM424150
							Combination Flush / Surface				TGK42 (order		
Indoor	NEMA 1	150	42	20	14	42	Front	Bottom	15	1-3/0 (Cu), 2/0-3/0 (AI)		TMB42DC3A2	TM42415CE
							Combination				TOKADA		
Indoor	NEMA 1	200	42	20	14	42	Flush / Surface Front	Тор	14	1-250 (Cu), 2/0-250(AI)	TGK42 (order separately)	TM42EC3A2	TM424200
							Combination						
Indoor	NEMA 1	200	42	20	14	42	Flush / Surface Front	Bottom	14	1-250 (Cu), 2/0-250(AI)	TGK42 (order separately)	TMB42EC3A2	TM42420CE
maoor	HENRI	200		20	1-		Tronc	Doctom	14	1 230 (60), 270 230(A)	TGK42 (order	INDELECIAL	1114242002
Outdoor	NEMA 3R	200	42	20	14	42	-	Тор	R8	1-250 (Cu), 2/0-250 (AI)	separately)	N/A - only a shield	TM42420F
							Combination						
Indoor	NEMA 1	225	42	20	14	42	Flush / Surface Front	Тор	15	1-300(Cu), 2/0-300(AI)	(2) TGL2 (orde separately)	r TM42BC3A2	TM424220
							Combination	-					
Indoor	NEMA 1	225	42	20	14	42	Flush / Surface Front	Bottom	15	1-300(Cu), 2/0-300(AI)	(2) TGL2 (orde separately)	r TMB42BC3A2	TM42422CB
	HEMA I	225	-+L	20	17	76		Bottom	15	1 300(Cu), 2/0-300(AI)	separatery)	TMB42BC3A2 TM42422R	TM42422CE
		2L	_									KA2LD	KA2LD
		B13	_									A2P3SB1	A2P3SB1
		204	_						12			TM24420CLB	TM24420CLE
		200	_						13		TGK42 (order	TM30420CLB	TM30420CLE
Outdoor	NEMA 3R	202	42	20	14	42		Тор	R8	1-300 (Cu), 2/0-300 (AI)	•	TM42420CLB	TM42420CLE

#### Product number guide for load centers

Lad center       ABB identification       T         ABB identification       T         Main type       Main type         I = Main logeaker       M         L = Main log       L         L = Main log       L         L = Main log       L         Marconvertible       LM         PL = Main log (Thermoplastic)       PL         Max number of 1" spaces       L         2: 4, 642       L         Insert for 3-Phase 4-wire       L         Load Centers       L         Pus Ampre Rating       L         40 = 40 Amps       L         700 = 70 Amps       L         10 = 10 Amps       L         20 = 200 Amps       L         22 = 225 Amps       L         Enclosure type       L         C = Combination surface/flush       L         S = Surface       L         R = Outdoor       L         S = Surface       L         S = Surface final breaker       L	Characteristics	Character(s)	т ———	<u>M</u>	42	4	20	 <u> </u>	
ABB identification       T         Main Upage       M         M = Anin breaker       M         L = Main Uig       L         M = Convertible       LM         PL = Main Uig (Thermoplastic)       PL         Max number of 1" spaces	Load center								
Main type   Ma Main breaker   Ma Main hug   L Hain lug   Max number of 1's paces   2.4, 6, 42   Insert for 3-Phase 4-Wire   Load Centers   Bus Ampere Rating   40 = 40 Amps   700 = 70 Amps   10 = 10 Amps   10 = 10 Amps   20 = 200 Amps   20 = 200 Amps   21 = 125 Amps   12 = 125 Amps   13 = 150 Amps   20 = 200 Amps   20 = 200 Amps   21 = 225 Amps   15 = 150 Amps   22 = 225 Amps		т							
M = Main breaker M   L = Main lug L   L = Main lug (Thermoplastic) PL   Max number of 1" space 2, 4, 642   Insert for 3-Phase 4-Wire   Load Centers     Bus Ampere Rating   40 = 40 Amps   700 = 70 Amps   10 = 10 Amps   12 = 125 Amps   12 = 125 Amps   20 = 200 Amps   20 = 200 Amps   20 = 200 Amps   22 = 225 Amps     Enclosure type   C = Combination surface/flush   F = Flush   S = Surface   R = Outdoor     Insert for Special   C = Combination surface/flush   F = Flush   S = Surface   R = Outdoor     Insert for Special   G ort = Factory installed ground bar   B = Bottom freed main breaker   B = Sottom for Special   G ort = Factory installed freed-through lugs   D = Optionation for For - Study lugs									
M = Main breaker M   L = Main lug L   L = Main lug (Thermoplastic) PL   Max number of 1" space 2, 4, 642   Insert for 3-Phase 4-Wire   Load Centers     Bus Ampere Rating   40 = 40 Amps   700 = 70 Amps   10 = 10 Amps   12 = 125 Amps   12 = 125 Amps   20 = 200 Amps   20 = 200 Amps   20 = 200 Amps   22 = 225 Amps     Enclosure type   C = Combination surface/flush   F = Flush   S = Surface   R = Outdoor     Insert for Special   C = Combination surface/flush   F = Flush   S = Surface   R = Outdoor     Insert for Special   G ort = Factory installed ground bar   B = Bottom freed main breaker   B = Sottom for Special   G ort = Factory installed freed-through lugs   D = Optionation for For - Study lugs	Main type								
LM = Convertible LM   PL = Main lug (Thermoplastic) PL   Max number of 1" spaces 2, 4, 642   Insert for 3-Phase 4-Wire   Load Centers     Bus Ampere Rating   40 = 40 Amps   700 = 70 Amps   10 = 10 Amps   12 = 125 Amps   13 = 10 Amps   14 = Coutloard   15 = 150 Amps   22 = 205 Amps   15 = 150 Amps   23 = 205 Amps   15 = 150 Amps   15		М							
LM = Convertible LM   PL = Main lug (Thermoplastic) PL   Max number of 1" spaces 2, 4, 642   Insert for 3-Phase 4-Wire   Load Centers     Bus Ampere Rating   40 = 40 Amps   700 = 70 Amps   10 = 10 Amps   12 = 125 Amps   13 = 10 Amps   14 = Coutloard   15 = 150 Amps   22 = 205 Amps   15 = 150 Amps   23 = 205 Amps   15 = 150 Amps   15	L = Main lug	L							
Max number of 1" spaces   2, 4, 642   Insert for 3-Phase 4-Wire Load Centers   Load Centers     Bus Ampore Rating   40 = 40 Amps   700 = 70 Amps   100 = 10 Amps   102 = 10 Amps   102 = 10 Amps   102 = 10 Amps   102 = 20 Amps   102 = 20 Amps   102 = 20 Amps   102 = 20 Surps     Enclosure type   C = Combination surface/flush   F = Flush   S = Surface   R = Outdoor     Insert for Specials   C u = Copper Bus   42 = Copper Bus Full 42 circuit panel     Insert for Specials   G or T = Factory Installed ground bar   B = Bottom feed main breaker   FL = Factory Installed derouth barg   B = Bottom feed main breaker   FL = Factory Installed ground bar   B = Bottom feed main breaker   FL = Factory Installed (poors)		LM							
Max number of 1" spaces   2, 4, 642   Insert for 3-Phase 4-Wire Load Centers   Load Centers     Bus Ampore Rating   40 = 40 Amps   700 = 70 Amps   100 = 10 Amps   102 = 10 Amps   102 = 10 Amps   102 = 10 Amps   102 = 20 Amps   102 = 20 Amps   102 = 20 Amps   102 = 20 Surps     Enclosure type   C = Combination surface/flush   F = Flush   S = Surface   R = Outdoor     Insert for Specials   C u = Copper Bus   42 = Copper Bus Full 42 circuit panel     Insert for Specials   G or T = Factory Installed ground bar   B = Bottom feed main breaker   FL = Factory Installed derouth barg   B = Bottom feed main breaker   FL = Factory Installed ground bar   B = Bottom feed main breaker   FL = Factory Installed (poors)	PL = Main lug (Thermoplastic)	PL							
2, 4, 642  Insert for 3-Phase 4-Wire Load Centers  Bus Ampere Rating 40 = 40 Amps 700 = 70 Amps 10 = 10 Amps 10 = 10 Amps 12 = 125 Amps 12 = 125 Amps 12 = 125 Amps 20 = 200 Amps 22 = 225 Amps  Enclosure type C = Combination surface/flush F = Flush S = Surface R = Outdoor  Insert for PowerMark Gold Cu = Copper Bus 42 = Copper Bus			I						
Insert for 3-Phase 4-Wire Load Centers  Bus Ampere Rating 40 = 40 Amps 700 = 70 Amps 10 = 10 Amps 10 = 10 Amps 12 = 125 Amps 12 = 125 Amps 12 = 125 Amps 22 = 220 Amps 22 = 225 Amps 22 = 20 Amps	Max number of 1" spaces								
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10 = 10 Amps   12 = 125 Amps   15 = 150 Amps   20 = 200 Amps   22 = 225 Amps									
12 = 125 Amps   15 = 150 Amps   20 = 200 Amps   22 = 225 Amps     Enclosure type   C = Combination surface/flush   F = Flush   S = Surface   R = Outdoor     Insert for PowerMark Gold   Cu = Copper Bus   42 = Copper Bus   42 = Copper Bus   42 = Copper Bus   B = Bottom feed main breaker   F L = Factory installed ground bar   B = Bottom feed main breaker   F L = Factory installed feed-through lugs   D = Optional door for 6-8 circuit panel. (Doors									
15 = 150 Amps   20 = 200 Amps   22 = 225 Amps   Enclosure type C = Combination surface/flush F = Flush S = Surface R = Outdoor Insert for PowerMark Gold C u = Copper Bus 42 = Copper Bus 42 = Copper Bus Full 42 circuit panel Insert for Specials G or T = Factory installed ground bar B = Bottom feed main breaker F L = Factory installed feed-through lugs D = Optional door for 6-8 circuit panel. (Doors									
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Enclosure type   C = Combination surface/flush   F = Flush   S = Surface   R = Outdoor   Insert for PowerMark Gold Cu = Copper Bus 42 = Copper Bus 42 = Copper Bus Full 42 circuit panel Insert for Specials G or T = Factory installed ground bar B = Bottom feed main breaker FL = Factory installed feed-through lugs D = Optional door for 6-8 circuit panel. (Doors									
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R = Outdoor     Insert for PowerMark Gold   Cu = Copper Bus   42 = Copper Bus Full 42 circuit panel     Insert for Specials   G or T = Factory installed ground bar   B = Bottom feed main breaker   FL = Factory installed feed-through lugs   D = Optional door for 6-8 circuit panel. (Doors									
Insert for PowerMark Gold       Insert for PowerMark Gold         Cu = Copper Bus       Insert for Specials         42 = Copper Bus Full 42 circuit panel       Insert for Specials         Insert for Specials       Insert for Specials         G or T = Factory installed ground bar       Insert for Specials         B = Bottom feed main breaker       Insert for Specials         FL = Factory installed feed-through lugs       Insert for Specials         D = Optional door for 6-8 circuit panel. (Doors       Insert Specials									
Cu = Copper Bus   42 = Copper Bus Full 42 circuit panel   Insert for Specials G or T = Factory installed ground bar B = Bottom feed main breaker FL = Factory installed feed-through lugs D = Optional door for 6-8 circuit panel. (Doors	R = Outdoor								
Cu = Copper Bus   42 = Copper Bus Full 42 circuit panel   Insert for Specials   G or T = Factory installed ground bar   B = Bottom feed main breaker   FL = Factory installed feed-through lugs   D = Optional door for 6-8 circuit panel. (Doors	Insert for PowerMark Gold		l						
42 = Copper Bus Full 42 circuit panel         Insert for Specials         G or T = Factory installed ground bar         B = Bottom feed main breaker         FL = Factory installed feed-through lugs         D = Optional door for 6-8 circuit panel. (Doors									
Insert for Specials       Insert for Specials         G or T = Factory installed ground bar       Insert for Specials         B = Bottom feed main breaker       Insert feed main breaker         FL = Factory installed feed-through lugs       Insert for Specials         D = Optional door for 6-8 circuit panel. (Doors       Insert for Specials									
G or T = Factory installed ground bar         B = Bottom feed main breaker         FL = Factory installed feed-through lugs         D = Optional door for 6-8 circuit panel. (Doors	- P.F		I						
B = Bottom feed main breaker FL = Factory installed feed-through lugs D = Optional door for 6-8 circuit panel. (Doors	Insert for Specials								
FL = Factory installed feed-through lugs     D = Optional door for 6-8 circuit panel. (Doors	G or T = Factory installed ground bar								
D = Optional door for 6-8 circuit panel. (Doors									
D = Optional door for 6-8 circuit panel. (Doors standard on all units 12 circuits or greater)	FL = Factory installed feed-through lugs								
standard on all units 12 circuits or greater)	D = Optional door for 6-8 circuit panel. (Doors								
	standard on all units 12 circuits or greater)								

W = White Front

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