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Loadcentres

Applications and Descriptions

Description

No. Applications	Products
1 Miscellaneous Applications Standard Main Lugs Only Panel	EQL & SNC Loadcentre-Indoor & Outdoor Type
2 Single Family	SEQ Loadcentre – Indoor & Outdoor Type
3 Duplex Units, Small Apartment Building, Small Professional and Commercial Building (Two to Six Units Maximum)	a) SEQ Service Entrance Equipment – Indoor & Outdoor Type b) EQL Main Lugs Loadcentre – Indoor & Outdoor Type c) SNC Main Lugs Loadcentre - Indoor type
4 Office Building/Condo/Apartment Building (3Ø Application)	a) Switchboards b) Busways c) Modular Metering d) EQ4 Loadcentres Main Lug only or Main Breaker
5 Small Industrial/Commercial Building (3Ø Application)	a) Switchboards b) Busways c) 3Ø Modular Metering d) EQ4 Loadcentres Main Lug Only or Main Circuit Breaker

A loadcentre is a metal enclosed distribution panel containing circuit breakers which distribute, protect and control lighting and power circuits in residential and light commercial applications, including single-family homes, townhouses, apartment buildings, and small office buildings.

All Siemens loadcentres can be classified into two types: main lug or main circuit breaker. Each Siemens loadcentre consists of three basic components: the enclosure, the interior, and the trim. The enclosure is used to contain the circuit breakers which mount on the interior. The trim seals the enclosure, offering protection to personnel from the environment.

A complete line of breakers and accessories which give Siemens loadcentres flexibility. For example, Ground Fault Interrupters protect personnel, an important consideration with the stress placed on personnel protection by the CEC. Handle ties, handle blocking devices, padlocking devices and filler plates are also available. Neutral lug kits in a variety of wire range sizes.



Included into all Loadcentres and Q Breakers

Loadcentres

Product Offering and Specification Guide

Description

Application

Main lug loadcentre

- 1 Phase 3 W 120/240V, 60 to 200A, 2/4 - 40/80 circuits
- 3 Phase 4W 120/208V, 100 to 225A, 12 - 42 circuits
- Outdoor Type 3R, 1 Phase 3 W, 120/240V, 100 to 200A, 8/16 - 40/80 circuits

Main breaker loadcentre

- 1 Phase 3 W 120/240V, 60 to 200A, 12/24 - 60/120 circuits
- 3 Phase 4W 120/208V, 100 to 200A, 24 - 42 circuits
- Outdoor Type 3R, 1 Phase 3 W 120/240V, 100 to 200A, 16/32 - 40/80 circuits
- Dual certified loadcentre 1 Phase 3 W 120/240V, 100 to 200A, 38 circuits

Generator panel

- Generator panel 3 Pole 1 Phase 3 W 120/240V, 30 to 100A, 6/12- 34/68 circuits
- Generator panel 2 Pole 1 Phase 3 W 120/240V, 30 to 100A, 8/16 - 36/72 circuits

SPA panel

- Type 3R, 1Phase 3 W 120/240V, 125A, 4/8 circuits

Mini panel/ Enclosed breaker,

- Indoor, 1Phase 3 W 120/240V, 60 & 125A, 2 circuits
- Outdoor Type 3R, 1 Phase 3 W 120/240V, 60 & 125A, 3 & 2/4 - 4/8 circuits

Circuit breaker

Plug-in

Interrupting rating of 10kA

- Full module
 - 1 Pole 15-70 Amp
 - 2 Pole 15-200 Amp
 - 3 Pole 15-100 Amp
- Half module
 - Twin: two single-pole, 15-15 to 40-15 Amp
 - Quad: two single-pole and one 2-pole inner breaker, 15-15 to 15-40 Amp

Bolt-on

Interrupting rating of 10kA & 22kA

- Full module
 - 1 Pole 15-70 Amp
 - 2 Pole 15-125 Amp
 - 3 Pole 15-100 Amp

Ground fault circuit interrupter

- 1 and 2 Pole, 15- 60A, 5 and 30mA sensitivity

Arc fault circuit interrupter

Interrupting rating of 10kA & 22kA

- 1 Pole, 15 and 20 Amp

Surge arrester breakers

- Two single pole breakers and one surge arrester, 15 and 20 Amp

Surge protection device (SPD)

- Power service entrance surge protection
- Telephone service entrance surge protection
- Coaxial service entrance surge protection

Specification Guide - Loadcentres

Loadcentre enclosures and trims are formed of cold rolled, code gauge steel. All devices are finished with ANSI 61 grey paint (electro deposition painting process).

The combination flush/surface trim is flat and plumb in appearance. The Siemens Type 3R loadcentre features industry exclusive gasketed door for improved weatherproof protection. The enclosures and interiors provide 4^{1/4}" (108 mm) side wiring gutters for branch circuits. Main bus bars are formed of cold rolled, one piece tin plated (acid bath tin, zincate process) aluminum. Copper bus is also available. Main lugs, neutral assemblies, and ground bars are suitable for copper or aluminum conductors and comply with the requirements of CSA. The extended capacity fully distributed neutrals give a neutral termination at every breaker position, and is mounted, along with bus bars, on a base part made of engineered resin. CSA listed for 60/75°C wiring applications; ratings are as follows: loadcentre main terminals 60/75°C cu/al wire; branch breaker terminals-60/75°C cu/al wire. All loadcentres are CSA listed under file #13069.

Individual circuit breakers are thermal magnetic, quick-make quick-break, trip free, plug-in construction. All two and three pole breakers are common trip. All circuit breakers are CSA listed under file #14374.

*Series rating labels on all loadcentres.

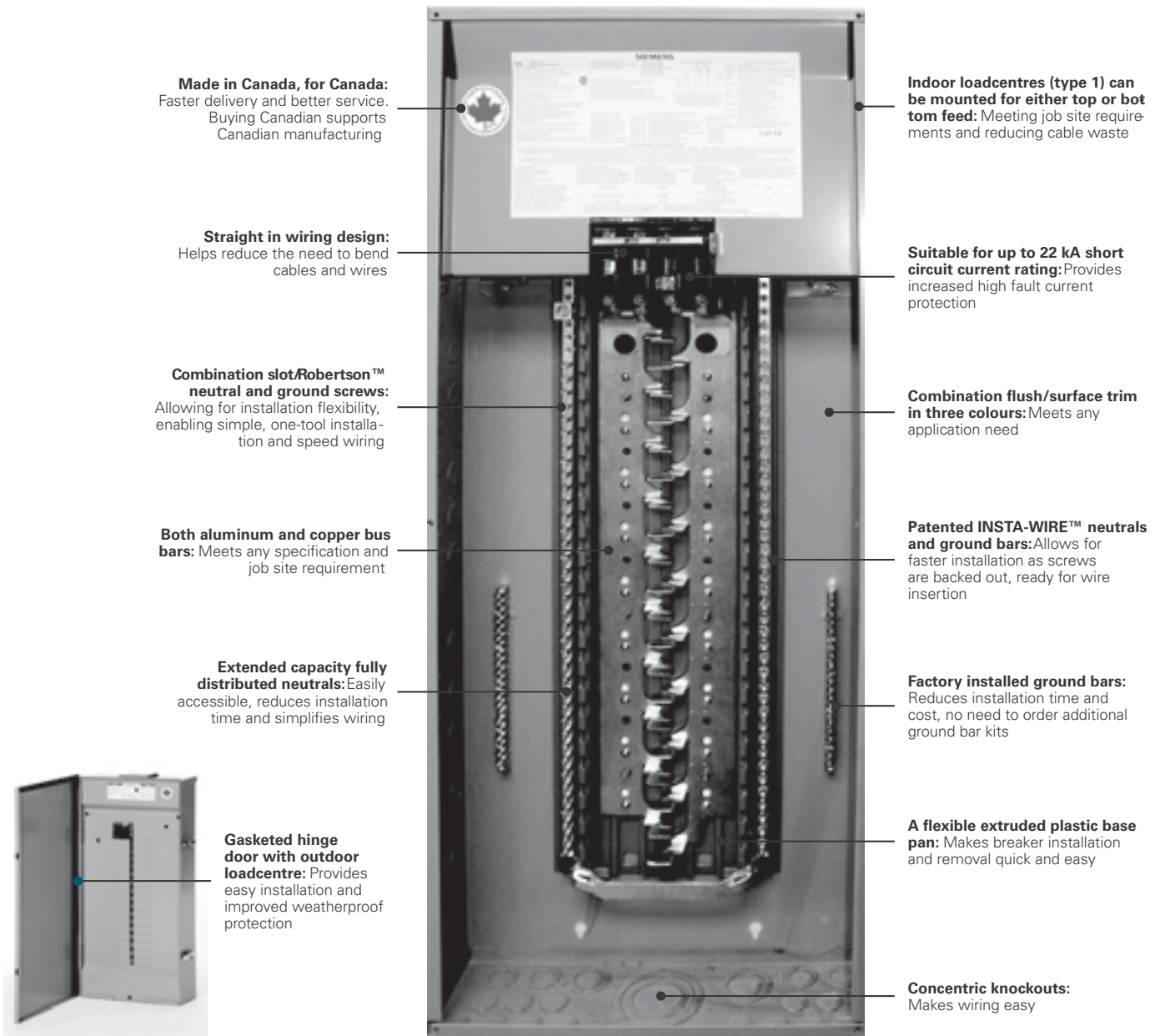


Loadcentres

Product Features and Customer Benefits

1

LOADCENTRES



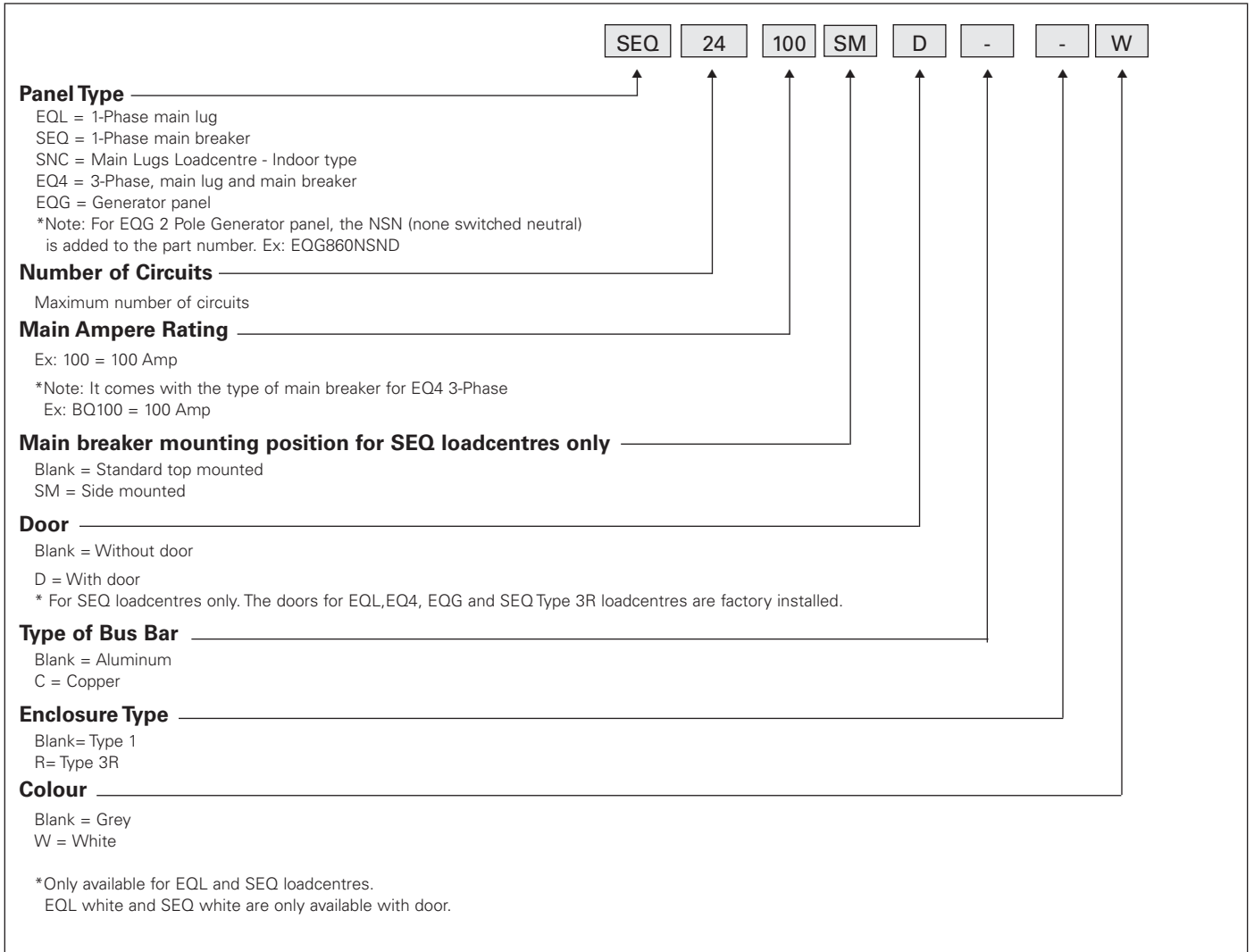
Features and Benefits

Siemens provides the broadest product portfolio related to single and multifamily applications. Flexibility, innovation and quality are the hallmarks of Siemens products for single and multi-family applications providing the customer with unmatched value. One example is our quick-make quick-break circuit breakers which give homeowners peace of mind and fast acting circuit protection. Our whole house surge protection solutions, arc fault and ground fault circuit interrupters provide additional protection against the risks of electrocution, fire hazard and property damage. With the comprehensive selection of options and accessories, Siemens loadcentres and breakers are the smart choice for the conscientious customer.

Loadcentres

Catalogue Numbering System

Catalogue Numbering System^①



① The Catalogue numbering system applies only to EQL, EQL Type 3R, SEQ, SEQ Type 3R, EQ4 and EQG loadcentres.

Loadcentres

EQL & SEQ Single Phase Main Lug & Main Breaker Loadcentres

Selection
INSTA WIRE™

Selection and Ordering Data

LOADCENTRES



EQL24125D



SEQ40200

EQL Loadcentres with main lugs only 1 phase 3 wire 240 V AC max.

Number of Circuits	Catalogue Number	Skid Qty.	Main Amps	Dimensions - Inches (mm)			Lug Data	Mounting Trim	Door Kit Catalogue Number	Factory Mod.
				H	W	D				
2/4	EQL260S	330	60	7 (178)	5 (127)	2 ³ / ₄ (70)	3	surface	N/A	N/A
4/8	EQL4100	90	100	12 ⁵ / ₈ (322)	6 ⁵ / ₈ (168)	3 ¹ / ₂ (90)	1	comb.	N/A	N/A
8/16	EQL8100D*	72	100	14 ⁷ / ₈ (378)	12 (305)	3 ³ / ₄ (95)	4-2/0	comb.	DK8-A	N/A
12/24	EQL12125D [Ⓢ]	45	125	16 ⁷ / ₈ (429)	12 (305)	3 ³ / ₄ (95)	4-2/0	comb.	DK12-A	①
16/32	EQL16125D [Ⓢ]	45	125	18 ⁷ / ₈ (479)	12 (305)	3 ³ / ₄ (95)	4-2/0	comb.	DK16-A	①
24/48	EQL24125D [Ⓢ]	36	125	24 ¹ / ₈ (613)	13 ¹ / ₂ (331)	3 ³ / ₄ (95)	4-2/0	comb.	DK24-A	①
32/64	EQL32200D [Ⓢ]	27	200	33 (838)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKL32-2A	①
40/80	EQL40200D [Ⓢ]	27	200	33 (838)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKL40-2A	①

Note: EQL8100D through EQL40200D[Ⓢ] are stocked complete with doors *Neutral bar only on one side of panel.

12/24	SNC1224L1125 [Ⓢ]	28	125	18	14 ¹ / ₄	3 ⁷ / ₈	2/0	comb.	RSCT1224L1125	N/A
16/32	SNC1632L1125 [Ⓢ]	28	125	21	14 ¹ / ₄	3 ⁷ / ₈	2/0	comb.	RSCT1632L1125	N/A
24/48	SNC2448L1125 [Ⓢ]	28	125	24	14 ¹ / ₄	3 ⁷ / ₈	2/0	comb.	RSCT2448L1125	N/A
30/48	SNC3048L1200 [Ⓢ]	21	200	30	14 ¹ / ₄	3 ⁷ / ₈	300 kcmil	comb.	RSCT3048L1200	N/A
40/60	SNC4060L1200 [Ⓢ]	21	200	36	14 ¹ / ₄	3 ⁷ / ₈	300 kcmil	comb.	RSCT4060L1200	N/A

Service Entrance Loadcentres with Factory installed main breaker 1 phase 3 wire 240 V AC max.

12/24	SEQ12060SM	54	60	17 ⁵ / ₈ (448)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	6-2/0	comb.	DK1216SM-1	①
16/32	SEQ16060SM [Ⓢ]	36	60	19 ⁵ / ₈ (498)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	6-2/0	comb.	DK1216SM-1	①
24/48	SEQ24060SM [Ⓢ]	36	60	24 ¹ / ₈ (613)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	6-2/0	comb.	DK24SM-1	①
12/24	SEQ12100SM	54	100	17 ¹ / ₂ (444)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	4-2/0	comb.	DK1216SM-1	①
16/32	SEQ16100SM	36	100	17 ¹ / ₂ (444)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	4-2/0	comb.	DK1216SM-1	①
24/48	SEQ24100SM [Ⓢ]	36	100	24 ¹ / ₈ (613)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	4-2/0	comb.	DK24SM-1	①
24/48	SEQ24100SMK [■]	36	100	24 ¹ / ₈ (613)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	4-2/0	comb.	DK24SM-1	①
24/48	SEQ24125SM [Ⓢ]	36	125	24 ¹ / ₈ (613)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	4-2/0	comb.	DK24SM-1	①
24/48	SEQ24150 [Ⓢ]	27	150	27 (686)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKS24-2A	①
24/48	SEQ24200	27	200	27 (686)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKS24-2A	①
32/64	SEQ32100SM	27	100	27 ¹ / ₈ (689)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	4-2/0	comb.	DK32SM-1	①
32/64	SEQ32125SM	27	125	27 ¹ / ₈ (689)	13 ¹ / ₈ (333)	3 ³ / ₄ (95)	4-2/0	comb.	DK32SM-1	①
32/64	SEQ32150	27	150	33 (838)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKS32-2A	①
32/64	SEQ32200	27	200	33 (838)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKS32-2A	①
40/80	SEQ40100	27	100	36 (914)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKS40-1A	①
40/80	SEQ40125	27	125	36 (914)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKS40-1A	①
40/80	SEQ40150	27	150	36 (914)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKS40-2A	①
40/80	SEQ40200 [Ⓢ]	27	200	36 (914)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	DKS40-2A	①
60/120	SEQ60200	18	200	46 (1168)	14 ¹ / ₄ (362)	4 (102)	6-250 MCM	comb.	N/A	N/A

[■] Standard SEQ24100SMK with additional knockouts to bottom plate

Note: Comb= Combination Flush/Surface mounted Certified for use with any combination of full or half module plug-in circuit breakers. Certified for mounting vertical, horizontal or inverted and for use with CU/AL conductors including compact stranded. All neutral bar connectors are No. 14 - No.4.

Typical circuit rating (ie. 24/48) indicates the circuit capacity of the loadcentre is 24 full module (1") breaker of 48 half-module (1/2") breakers.

① Factory modification, see next page.
Ⓢ For copper bus add suffix C to existing part number. 4 weeks delivery required.

Ⓢ EQL and SNC available in White paint colour. Add "W" to end of part number.


Loadcentres

EQL, SNC, & SEQ Single Phase Main Lug & Main Breaker Loadcentres



Selection and Ordering Data

1
LOADCENTRES

 SEQ24125SM	Factory Modifications [Ⓞ]										
	Type	Description	Catalogue Number			Example			Delivery		
	EQL	White door and trim	add suffix...W			EQL24125DW			2 weeks		
	SNC	White door and trim	add suffix...W			SNC1224L1112SW					
	SEQ	Grey door installed White door and trim	add suffix...D add suffix...DW			SEQ24125SMD SEQ24125SMDW					
Door Kit	White Door kit	add suffix...W			DK24SM-1W						
Note: All door kits are available in Grey and White colours.											
EQL	Copper Bus	add suffix...CR			EQL24125DCR			4 weeks			

Weatherproof Loadcentre Main Lug Only, 1 phase 3 wire 120/240V AC max.											
Number of Circuits	Catalogue Number	Skid Qty.	Main Amps	Dimensions - Inches (mm)			Lug Data	Mounting Trim	Factory Mod.	Hubs (sold separately)	
				H	W	D				Conduit size (")	Catalogue Number
12/24	EQL12125DCR	35	125	19 ⁷ / ₈ (505)	13 ³ / ₄ (349)	5 (127)	6-2/0	surface only	N/A	3/4 1	ECHS075 ECHS100
24/48	EQL24125DCR	28	125	24 ⁷ / ₈ (632)	13 ³ / ₄ (349)	5 (127)	6-2/0	surface only	N/A	1 1/4 1 1/2	ECHS125 ECHS150
40/80	EQL40200DCR	21	200	33 ⁵ / ₈ (853)	15 (381)	5 (127)	6-250 MCM	surface only	N/A	2 2 1/2	ECHS200 ECHS250

* Neutral bar only on one side of panel.

SEQ Type 3R Weatherproof Loadcentre with Factory installed main breaker 1 phase 3 wire 240V AC max.											
Number of Circuits	Catalogue Number	Skid Qty.	Main Amps	Dimensions - Inches (mm)			Lug Data	Mounting Trim	Factory Mod.	Hubs (sold separately)	
				H	W	D				Conduit size (")	Catalogue Number
16/32	SEQ16100SMCR	35	100	21 ⁵ / ₈ (549)	13 ⁹ / ₁₆ (345)	5 (127)	6-2/0	surface only	N/A	3/4 1 1 1/4 1 1/2 2 2 1/2	ECHS075 ECHS100 ECHS125 ECHS150 ECHS200 ECHS250
24/48	SEQ24100SMCR	28	100	24 ⁵ / ₈ (625)	13 ⁹ / ₁₆ (345)	5 (127)	6-2/0	surface only	N/A		
24/48	SEQ24200CR	21	200	27 ¹ / ₂ (699)	15 (381)	5 (127)	6-250 MCM	surface only	N/A		
40/80	SEQ40200CR	21	200	36 ¹ / ₂ (927)	15 (381)	5 (127)	6-250 MCM	surface only	N/A		

Note: Both SEQ and EQL weatherproof panels are stocked complete with gasketed hinged door for improved weatherproof protection. All SEQ and EQL Type 3R panels come standard with copper bus.

Loadcentres


EQL, SNC, & SEQ Single Phase Main Lug & Main Breaker Loadcentres (continued)

Selection

Selection and Ordering Data

LOADCENTRES 1

Dual Listed/cULus Loadcentres 120/240V 1 phase 3 Wire									
Number of Circuits	Catalogue Number	Skid Qty.	Main Amps	Dimensions - Inches (mm)			Lug Data	Mounting Trim	Door Kit Catalogue Number
				H	W	D			
38	SEQ38100U	27	100	36 (362)	14 ¹ / ₄ (362)	4 (102)	6-250MCM	comb.	DKS38-1A
	SEQ38125U	27	125						
	SEQ38150U	27	150						DKS38-2A
	SEQ38200U	27	200						



SEQ38200U

Branch breakers: Only 1" full module breakers that are both UL & CSA certified are allowed to be installed in this loadcentre; 1/2" twin and quad branch breakers must not be used as per NEC 384-14(a) and NEC-384-15. Consult Siemens Sales Rep. for details.

Application benefit: Allows modular home builders who have businesses in both US & Canada to carry only one line of inventory.

Loadcentres

EQ3 Single Phase & EQ4 Three Phase Loadcentres

Selection

Selection and Ordering Data

1
LOADCENTRES

EQ3 Single Phase Loadcentres									
With Main Lugs only 1 phase 3 Wire 120/240 V AC max. 10KA									
Number of Circuits	Catalogue Number	Main Amps	Dimensions - Inches (mm)			Lug Data	Mounting Trim	Door Catalogue Number	Factory Mod.
			H	W	D				
24	EQ324225	225	34 (864)	14 ³ / ₈ (365)	4 ³ / ₈ (111)	6-300 MCM	comb.	DKEQ2430	①
40	EQ340225	225	40 (1016)					DKEQ42	
EQ3 Service Entrance Loadcentre									
With factory Installed Main Breaker 1 phase 3 Wire 120/240 V AC max. 10KA									
24	EQ324BQ125	125	34 (864)	14 ³ / ₈ (365)	4 ³ / ₈ (111)	#6 - 2/0	comb.	DKEQ24BQ	①
32	EQ332BQ125	125	40 (1016)					DKEQ42	
EQ Three Phase Loadcentres ^①									
With main lugs only 3 phase 4 wire 240V AC max. 10 KA									
12	EQ412100	100	28 (711)	14 ³ / ₈ (365)	4 ³ / ₈ (111)	14-2/0	comb.	DKEQ1218	①
18	EQ418100	100	28 (711)					DKEQ1218	
24	EQ424225	225	34 (864)			6-300 MCM		DKEQ2430	
30	EQ430225	225	34 (864)					DKEQ2430	
42	EQ442225	225	40 (1016)					DKEQ42	
Service Entrance Loadcentres									
With factory installed main breaker 3 phase 4 wire 240 V AC max. 10 KA.									
24	EQ424BQ100	100(BQ)	34 (864)	14 ³ / ₈ (365)	4 ³ / ₈ (111)	4-2/0	comb.	DKEQ24BQ	①
42	EQ442QR100	100(QR)	46 (1168)					6-300 MCM	
42	EQ442QR125	125(QR)	46 (1168)			DKEQ42QR			
42	EQ442QR150	150(QR)	46 (1168)						
42	EQ442QR200	200(QR)	46 (1168)						
Factory Modifications ^①									
Type	Description	Catalogue Number	Example			Delivery			
EQ4	Copper Bus	add suffix...C	EQ430225C			4 Weeks			
Lug Kits For EQ Loadcentres									
Catalogue Number	Loadcentre Amps Rating		Description						
SFK100	100		Sub-feed Kit 14-2/0 (Per Phase)						
SFK225	225		Sub-feed Kit 1/0-250 MCM (Per Phase)						
TFK100	100		Through-feed Kit 14-2/0 (Per Phase)						
TFK225	225		Through-feed Kit 6-300 MCM (Per Phase)						



EQ424BQ100



SFK225



TFK100

Note : Certified for use with either plug-in (Type Q) or bolt-on (Type BQ) branch breakers. Number of circuits can be doubled by use of plug-in (Type QT) twin breakers. Certified for mounting vertical, horizontal or inverted and for use with CU/AL conductor including compact stranded. All neutral bar connectors are No. 14 - No. 4.

①All Three Phase EQ loadcentres are stocked complete with doors. Interior only is not available. Must be ordered as a complete unit.

Note: For copper bus add suffix C to existing part number. 4 weeks delivery required

Loadcentres






SPA panel and Mini Panel/Enclosed Breaker

Selection



Selection and Ordering Data

LOADCENTRES

 W0408ML1125  2-POLE GFCI	SPA panel package, 3R enclosure 120/240V 1 Phase 3 Wire																																							
	Number of Circuits	Package Catalogue Number	Main Amps.	GFCI Included	Enclosure Dimensions - Inches (mm)			Hubs (sold separately)																																
					H	W	D	Conduit Size (")	Catalogue Number																															
	4/8	W0408ML1125-20	125	QF220A	12 ¹ / ₄ (312)	6 (153)	4 ¹ / ₄ (108)	Cover 3/4 1 1 ¹ / ₄ 1 ¹ / ₂ 2 2 ¹ / ₂	ECHS000 ECHS075 ECHS100 ECHS125 ECHS150 ECHS200 ECHS250																															
		W0408ML1125-30		QF230A																																				
		W0408ML1125-40		QF240A																																				
W0408ML1125-50		QF250A																																						
W0408ML1125-60		QF260A																																						
Each package also includes a 4-point ground bar and French instructions.																																								
 EQS260	Circuit Breaker Enclosures for Service Entrance and Commercial Use																																							
	EEMAC 1 Enclosure (Indoor) 1 phase 3 wire 240V AC Max.																																							
	Breaker Range	Catalogue Number	Main Amps.	Number of Poles	Dimensions - Inches (mm)			Lug Data																																
					H	W	D																																	
	15-60A	EQS260* ^①	60	1,2	7 ³ / ₄ (197)	5 (127)	2 ³ / ₄	14-4 (70)																																
15-125A	EQS2125* ^①	125	1,2	13 (330)	6 ⁵ / ₈ (168)	3 ³ / ₈	14-2/0 (86)																																	
*Does not accept quad type breaker.																																								
 WEQ60-4  W0816ML1125CU	EEMAC 3R Weatherproof Enclosure, 1 phase 3 wire 240V AC Max.																																							
	Full Module Circuits	Catalogue Number	Main Amps.	Dimensions - Inches (mm)			Weight lbs.	Hub ^② Type																																
				H	W	D																																		
	3	WEQ60-4 ^③	60	10 ¹ / ₄ (260)	9 ¹ / ₂ (241)	5 ⁵ / ₈ (143)	8	HR																																
	2/4	W0204ML1060 ^③	60	8 (204)	5 (127)	4 ¹ / ₄ (108)	4	HA																																
4/8	W0408ML1125 ^③	125	12 ¹ / ₄ (312)	6 (153)	4 ¹ / ₄ (108)	7	HS																																	
8/16	W0816ML1125CU ^③	125	14 ³ / ₄ (375)	12 ¹ / ₈ (308)	4 ¹ / ₄ (108)	7	HS																																	
Note: Package does not include a 4-point ground bar, please order: GBK4																																								
Key Features: Outdoor EEMAC 3R enclosure • Accepts plug-in Q type breakers • One piece bus bar construction • Combination trim flush/surface				Hubs <table border="1"> <thead> <tr> <th>Catalogue Number</th> <th>Conduit size (")</th> <th>Catalogue Number</th> <th>Conduit size (")</th> </tr> </thead> <tbody> <tr> <td>ECHA075</td> <td>3/4</td> <td>ECHS075</td> <td>3/4</td> </tr> <tr> <td>ECHA100</td> <td>1</td> <td>ECHS100</td> <td>1</td> </tr> <tr> <td>ECHA125</td> <td>1 1/4</td> <td>ECHS125</td> <td>1 1/4</td> </tr> <tr> <td>ECHR075</td> <td>3/4</td> <td>ECHS150</td> <td>1 1/2</td> </tr> <tr> <td>ECHR100</td> <td>1</td> <td>ECHS200</td> <td>2</td> </tr> <tr> <td>ECHR125</td> <td>1 1/4</td> <td>ECHS250</td> <td>2.5</td> </tr> <tr> <td>ECHR150</td> <td>1 1/2</td> <td></td> <td></td> </tr> </tbody> </table>					Catalogue Number	Conduit size (")	Catalogue Number	Conduit size (")	ECHA075	3/4	ECHS075	3/4	ECHA100	1	ECHS100	1	ECHA125	1 1/4	ECHS125	1 1/4	ECHR075	3/4	ECHS150	1 1/2	ECHR100	1	ECHS200	2	ECHR125	1 1/4	ECHS250	2.5	ECHR150	1 1/2		
Catalogue Number	Conduit size (")	Catalogue Number	Conduit size (")																																					
ECHA075	3/4	ECHS075	3/4																																					
ECHA100	1	ECHS100	1																																					
ECHA125	1 1/4	ECHS125	1 1/4																																					
ECHR075	3/4	ECHS150	1 1/2																																					
ECHR100	1	ECHS200	2																																					
ECHR125	1 1/4	ECHS250	2.5																																					
ECHR150	1 1/2																																							
Remark: ① The panels will not accommodate a 2 pole ground fault breaker (GFCI) or breaker with shunt trip. ② Hubs sold separately ③ Not to be used as service entrance.																																								

Loadcentres

Generator panel

Selection

Selection and Ordering Data

1
LOADCENTRES

Generator Panel, 3 Pole 1 phase 3 wire 240V AC Max. Suitable for use with a generator having a bonded neutral conductor.								
Number of Circuits	Catalogue Number	Skid Qty.	Main Amps	Dimensions - Inches (mm)			Lug Data	Mounting Trim
				H	W	D		
6/12	EQG630D	63	30	16 ^{7/8} (429)	12 (305)	3 ^{3/4} (95)	14-6	Comb.
	EQG660D		60				6-2/0	
	EQG680D		80				6-2/0	
	EQG6100D		100				6-2/0	
10/20	EQG1030D	45	30	18 ^{7/8} (479)	12 (305)	3 ^{3/4} (95)	14-6	Comb.
	EQG1060D		60				6-2/0	
	EQG1080D		80				6-2/0	
	EQG10100D		100				6-2/0	
18/36	EQG1830D	36	30	24 ^{1/8} (613)	13 ^{1/32} (331)	3 ^{3/4} (95)	14-6	Comb.
	EQG1860D		60				6-2/0	
	EQG1880D		80				6-2/0	
	EQG18100D		100				6-2/0	
26/52	EQG2630D	27	30	33 (838)	14 ^{1/4} (362)	4 (102)	14-6	Comb.
	EQG2660D		60				6-2/0	
	EQG2680D		80				6-2/0	
	EQG26100D		100				6-2/0	
34/68	EQG3430D	27	30	33 (838)	14 ^{1/4} (362)	4 (102)	14-6	Comb.
	EQG3460D		60				6-2/0	
	EQG3480D		80				6-2/0	
	EQG34100D		100				8-2/0	
Generator Panel, 2 Pole 1 phase 3 wire 240V AC Max. Suitable for use with a generator having an unbonded neutral conductor.								
8/16	EQG830NSND	63	30	16 ^{7/8} (429)	12 (305)	3 ^{3/4} (95)	14-8	Comb.
	EQG860NSND		60				6-2/0	
	EQG880NSND		80				6-2/0	
	EQG8100NSND		100				6-2/0	
12/24	EQG1230NSND	45	30	18 ^{7/8} (479)	12 (305)	3 ^{3/4} (95)	14-8	Comb.
	EQG1260NSND		60				6-2/0	
	EQG1280NSND		80				6-2/0	
	EQG12100NSND		100				6-2/0	
20/40	EQG2030NSND	36	30	24 ^{1/8} (613)	13 ^{1/32} (331)	3 ^{3/4} (95)	14-8	Comb.
	EQG2060NSND		60				6-2/0	
	EQG2080NSND		80				6-2/0	
	EQG20100NSND		100				6-2/0	
28/56	EQG2830NSND	27	30	33 (838)	14 ^{1/4} (362)	4 (102)	14-8	Comb.
	EQG2860NSND		60				6-2/0	
	EQG2880NSND		80				6-2/0	
	EQG28100NSND		100				6-2/0	
36/72	EQG3630NSND	27	30	33 (838)	14 ^{1/4} (362)	4 (102)	14-8	Comb.
	EQG3660NSND		60				6-2/0	
	EQG3680NSND		80				6-2/0	
	EQG36100NSND		100				6-2/0	
<p>Note: The EQG panels are stocked complete with doors</p> <p>Key Features:</p> <ul style="list-style-type: none"> • Ensures reliable and continuous operation, allows customers to permanently connect critical loads to back up generators in cases of main power failures • Factory ready for use in both switched and non-switched neutral applications • Additional number of generator circuits for more flexibility 								



EQG630D



EQG860NSND

Circuit Breakers

Type Q Plug-In Breakers

Selection and Ordering Data

Selection
INSTA WIRE™

LOADCENTRES 1

Full Module (1" per pole) 10,000 A.I.C.			
Ampere Rating		Catalogue Number	Standard Package
Single Pole			
	15 20 25 30 40 50 60 70	Q115 ^③ Q120 ^③ Q125 Q130 Q140 Q150 Q160 Q170	48
Two Pole Common Trip			
	15 20 25 30 35 40 50 60	Q215 Q220 Q225 Q230 Q235 Q240 Q250 Q260	24
	70 80 90 100 110 125	Q270 Q280 Q290 Q2100 Q2110 Q2125	5
	150 200	QN2150R ^{④⑤} QN2200R ^{④⑤}	1
Three Pole Common Trip			
	15 20 25 30 40 50 60 70	Q315 Q320 Q325 Q330 Q340 Q350 Q360 Q370	3
	80 90 100	Q380 Q390 Q3100	2
Half Module (1/2" per pole) 10,000 A.I.C.			
Poles	Amps	Catalogue Number ^①	Standard Package
QT Dual (Twin)	15-15	Q1515NC	48
	15-20	Q1520NC	
	15-30	Q1530NC	
	15-40	Q1540NC	
	20-15	Q2015NC	
	20-20	Q2020NC	
	30-15	Q3015NC	
	30-20	Q2030NC	
	30-30	Q3030NC	
	40-15	Q4015NC	
Quad Type (1/2" per pole) 10,000 A.I.C. Common Trip - centre poles only.			
Poles	Ampere Rating	Catalogue Number ^②	Standard Package
QT Quad	15-15	Q21515CTNC	24
	15-20	Q21520CTNC	
	15-25	Q21525CTNC	
	15-30	Q21530CTNC	
	15-40	Q21540CTNC	



Q115



Q215



Q315



Q1515NC



Q21515CTNC

① Typical catalogue number (ie. Q1515NC) represents two single-pole 15A circuit breakers - total width 1"

② Typical catalogue number (ie. Q21520CTNC) represents two single-pole, outer poles (two 15A 1-pole circuit breakers) and one 2-pole inner breaker with common trip (one 20A 2-pole circuit breaker) - total width 2"

③ Typical CSA Listed for frequent switching applications (SWD). 120V AC Fluorescent Lighting.

④ Requires 4 panel circuits, 2 adjacent and 2 opposite. Two twist outs should be only removed.

⑤ Will not fit in EQ3 or EQ4 loadcenters


Circuit Breakers

Surge Arrester and Replacement Main Breakers

Selection and Ordering Data



1
LOADCENTRES

 <p>EQ9675</p>	Replacement Main Breakers for EQ4 and EQ3 Loadcentres 22,000 A.I.C.			
	Poles	Ampere Rating	Catalogue Number	Standard Package
	N/A	60	Q260H	6
		100 125 150 200	EQ9675 EQ9677 EQ9683 EQ9685	1

Loadcentres

Arc-Fault and Ground Fault Circuit Interrupters

Selection

Selection and Ordering Data

LOADCENTRES

Poles	Ampere Rating	Interrupting Rating		
		10Ka	22kA	65Ka
Catalogue Number				
Combination Arc Fault Circuit Interrupters (AFCI) Detects all three possible types of arc faults: line-to-ground, line-to-neutral, and series. Pig Tail Version, Full Module (1" per pole)				
1	15	QA115AFCCSA	QA115AFCH	QA115AFCHH
	20	QA120AFCCSA	QA120AFCH	QA120AFCHH
2	15	Q215AFCCSA	Q215AFCH	N/A
	20	Q220AFCCSA	Q220AFCH	N/A
Plug On Neutral Version, Full Module (1" per pole)				
1	15	QA115AFCNCSA	N/A	N/A
	20	QA120AFCNCSA	N/A	N/A
2	15	Q215AFCNCSA	N/A	N/A
	20	Q220AFCNCSA	N/A	N/A
Pig Tail Twin Version, Half Module (1/2" per pole)				
1	15	Q1515AFCCSA	N/A	N/A
	20	Q2020AFCCSA	N/A	N/A
Plug On Neutral Twin Version, Half Module (1/2" per pole)				
1	15	Q1515AFCNCSA	N/A	N/A
	20	Q2020AFCNCSA	N/A	N/A
Dual Function AFCI/GFCI The Dual Function Circuit Breaker combines Combination Type AFCI and GFCI, protecting against both Arc Faults and (5mA) Ground Faults. Includes Self Test as an added safety feature. Pig Tail Version, Full Module (1" per pole)				
1	15	Q115DFCSA	Q115DFH	Q115DFHH
	20	Q120DFCSA	Q120DFH	Q120DFHH
Plug On Neutral Version, Full Module (1" per pole)				
1	15	Q115DFNCSA	N/A	N/A
	20	Q120DFNCSA	N/A	N/A
Ground Fault Circuit Interrupters, Class A (5mA) Sensitivity Provides Class A (5mA) ground fault protection. Intended for personnel protection. Includes Self Test as an added safety feature. Pig Tail Version, Full Module (1" per pole)				
1	15	QF115ACSA	QF115AH	QF115AHH
	20	QF120ACSA	QF120AH	QF120AHH
	30	QF130ACSA	QF130AH	QF130AHH
2	15	QF215ACSA	QF215AH	N/A
	20	QF220ACSA	QF220AH	N/A
	30	QF230ACSA	QF230AH	N/A
	40	QF240ACSA	QF240AH	N/A
	50	QF250ACSA	QF250AH	N/A
	60	QF260ACSA	QF260AH	N/A
Plug On Neutral Version, Full Module (1" per pole)				
1	15	QF115ANCSA	N/A	N/A
	20	QF120ANCSA	N/A	N/A
	30	QF130ANCSA	N/A	N/A
Ground Fault Equipment Protection (QE), Full Module (1" per pole) 30mA Sensitivity Provides protection of equipment from damaging line-to-ground faults currents.				
1	15	QE115	N/A	N/A
	20	QE120	N/A	N/A
	30	QE130	N/A	N/A
2	15	QE215	N/A	N/A
	20	QE220	N/A	N/A
	30	QE230	N/A	N/A
	40	QE240	N/A	N/A
	50	QE250	N/A	N/A
	60	QE260	N/A	N/A

NOTE: Plug on Neutral breakers are only compatible with SNC loadcentres

Loadcentres

Type BQ Bolt-on^① and Blue line Circuit Breakers

Selection



Selection and Ordering Data

LOADCENTRES

Full Module BQ Breakers (1" per pole) 10,000 A.I.C. & 22,000 A.I.C.				
Ampere Rating	10,000 A.I.C. Catalogue Number	22,000 A.I.C. Catalogue Number	Std. Pkg.	
Single Pole				
15	BQ1B015	BQ1B015H	12	
20	BQ1B020	BQ1B020H		
25	BQ1B025	BQ1B025H		
30	BQ1B030	BQ1B030H		
40	BQ1B040	BQ1B040H		
50	BQ1B050	BQ1B050H		
60	BQ1B060	BQ1B060H		
70	BQ1B070	BQ1B070H		
Two Pole Common Trip				
15	BQ2B015	BQ2B015H	6	
20	BQ2B020	BQ2B020H		
25	BQ2B025	BQ2B025H		
30	BQ2B030	BQ2B030H		
40	BQ2B040	BQ2B040H		
50	BQ2B050	BQ2B050H		
60	BQ2B060	BQ2B060H		
70	BQ2B070	BQ2B070H		
80	BQ2B080	BQ2B080H		
90	BQ2B090	BQ2B090H		
100	BQ2B100	BQ2B100H		
125	BQ2B125	-		
Three Pole Common Trip				
15	BQ3B015	BQ3B015H		4
20	BQ3B020	BQ3B020H		
30	BQ3B030	BQ3B030H		
40	BQ3B040	BQ3B040H		
50	BQ3B050	BQ3B050H		
60	BQ3B060	BQ3B060H		
70	BQ3B070	BQ3B070H		
90	BQ3B090	BQ3B090H		
100	BQ3B100	BQ3B100H		



BQ1B015



BQ2B015



BQ3B015

BQ Screws are sold separately^①

Type Blue line circuit breakers		
Ampere Rating	Catalogue Number	Standard Package
15	BL1-015	20
20	BL1-020	
30	BL1-030	
40	BL1-040	
50	BL1-050	
15	BL2-015	10
20	BL2-020	
30	BL2-030	
40	BL2-040	
Description	Catalogue Number	Standard Package
Tie Handle	BLTH1	20
6 - 1 Pole Fillers	BLF6	

Note: These breakers are used as replacement in old ITE Loadcentres



BL1-015

Loadcentres

Accessories and Replacement Parts

Selection

INSTA WIRE™

Selection and Ordering Data

LOADCENTRES

Catalogue Number	Description	Std. Pkg.
Tie Handle		
ECQTH2	QT Dual Tie Handle-Floating	25
ECQTH3	Q 2-Pole Tie Handle	50
QTH4	QT Dual Tie Handle - Bar Type	5
Blocking Device		
ECQL1	Handle Blocking Device (1,2 or 3 Pole)	10
ECQLD3	Padlocking Device (1,2 or 3 Pole) for full module breakers	
ECPLD1	Padlocking Device (1 Pole) for Twin type breakers	3
ECPLD2	Padlocking Device (2 Pole) for Quad type breakers	
Lock		
ECQFL2	Add-A-Lock (all EQ Loadcentres)	1
Neutral Lug Kits		
LK2	No. 4-2/0 CU/AL	1
LK3	No. 1-300 MCM CU/AL	
LK4	No. 1-400 MCM CU/AL	
Lug Kit[®]		
ECLK2225	No. 2-300 MCM CU/AL	1
Miscellaneous		
QF3	Three 1-Pole Fillers	1
SL3	Sliding Black Latch	
SL3W	Sliding White Latch	
IG21	Insulated Ground Bar Kit	
Truck-Kit	Contractor Truck Kit	
TRIMSCK1Z	Screws for trims "Zink"	
CIRNOLA32	Circuit labels up to 32 circuits for SEQ 125A	
CIRNOLA40	Circuit labels up to 40 circuits	
CIRNOLA60	Circuit labels up to 60 circuits	
DIRLBLK-EQLSEQ	Directory labels EQL, SEQ	
DIRLBLK-SM	Directory labels SEQ side mounted NMMB	
DIRLBLKSEQ60	Directory Card "Package of 25"	
MAINLBLK-EQLSEQ	Replacement Main Label Kit SEQ-EQL	
TUP-RA236QF	White Powder Coat Spray Paint	
TUP-PL126Q	Grey Powder Coat Spray Paint	
ECTS2	LCTrim Screws for SNC Panel	6
ECTS2W	LCTrim Screws White for SNC Panel	6

©These lug kits simply plug on to the bus of any SEQ or EQL Loadcentre as sub-feed or through-feed lugs to take advantage of CEC Rule 14-100 (c).

Loadcentres

Accessories and Replacement Parts


Selection




1

LOADCENTRES

SEQ Loadcentres

	# of Circuits	Catalogue Number	Door Kit		Door & Trim	
			Grey	White	Grey	White
 <p>Door Kit</p>	12/24	SEQ12060SM	DK1216SM-1	DK1216SM-1W	DK12SM	DK12SMW
	16/32	SEQ16060SM			DK16SM	DK16SMW
	24/48	SEQ24060SM	DK24SM-1	DK24SM-1W	DK24SM	DK24SMW
	12/24	SEQ12100SM	DK1216SM-1	DK1216SM-1W	DK12SM	DK12SMW
	16/32	SEQ16100SM			DK16SM	DK16SMW
	24/28	SEQ24100SM SEQ24125SMK SEQ24125SM	DK24SM-1	DK24SM-1W	DK24SM	DK24SMW
	24/48	SEQ24150 SEQ24200	N/A	N/A	DKS24-2A	DKS24-2AW
	32/64	SEQ32100SM SEQ32125SM	DK32SM-1	DK32SM-1W	DK32SM	DK32SMW
	32/64	SEQ32150 SEQ32200	N/A	N/A	DKS32-2A	DKS32-2AW
	40/80	SEQ40100 SEQ40125	N/A	N/A	DKS40-1A	DKS40-1AW
40/80	SEQ40150 SEQ40200	N/A	N/A	DKS40-2A	DKS40-2AW	
60/120	SEQ60200	N/A	N/A	DKS60-2A	DKS60-2AW	

SEQ Loadcentres

	# of Circuits	Catalogue Number	Main Breaker Cover		Branch Breaker Cover	
			Grey	White	Grey	White
 <p>Main Breaker Cover</p>	12/24	SEQ12060SM	DKMCSM	DKMCSMW	SEQ12060SM-T	SEQ12060SM-TW
	16/32	SEQ16060SM			SEQ16060SM-T	SEQ16060SM-TW
	24/48	SEQ24060SM			SEQ24060SM-T	SEQ24060SM-TW
	12/24	SEQ12100SM			SEQ12100SM-T	SEQ12100SM-TW
	16/32	SEQ16100SM			SEQ16100SM-T	SEQ16100SM-TW
	24/28	SEQ24100SM SEQ24125SMK SEQ24125SM			SEQ24100SM-T	SEQ24100SM-TW
					SEQ24125SM-T	SEQ24125SM-TW
					SEQ24125SM-T	SEQ24125SM-TW
	24/48	SEQ24150 SEQ24200	N/A [Ⓢ]	N/A [Ⓢ]	SEQ24-TA	SEQ24-TAW
	32/64	SEQ32100SM SEQ32125SM	DKMCSM	DKMCSMW	SEQ32100SM-T	SEQ32100SM-TW
SEQ32125SM-T					SEQ32125SM-TW	
32/64	SEQ32150 SEQ32200	N/A [Ⓢ]	N/A [Ⓢ]	SEQ32-T	SEQ32-TW	
40/80	SEQ40100 SEQ40125			SEQ40100-T	SEQ40100-TW	
40/80	SEQ40150 SEQ40200			SEQ40-T	SEQ40-TW	
60/120	SEQ60200			SEQ60-T	SEQ60-TW	

Ⓢ Branch Breaker Cover part covers the main breaker area and branch circuits.


Loadcentres

Accessories and Replacement Parts




LOADCENTRES


EQL Loadcentres

	# of Circuits	Catalogue Number	Door Kit	
			Grey	White
			2/6	EQL260S
4/8	EQL4100			
8/16	EQL8100D	DK8-A	DK8-AW	
12/24	EQL12125D	DK12-A	DK12-AW	
16/32	EQL16125D	DK16-A	DK16-AW	
24/48	EQL24125D	DK24-A	DK24-AW	
32/64	EQL32200D	DKL32-2A	DKL32-2AW	
40/80	EQL40200D	DKL40-2A	DKL40-2AW	


SNC Loadcentres

	# of Circuits	SNC Catalogue Number	SNC Door Kit	
			Grey	White
			12/24	US2:SNC1224L1125
16/32	US2:SNC1632L1125	US2:RSCT1632L1125	US2:RSCT1632L1125W	
24/48	US2:SNC2448L1125	US2:RSCT2448L1125	US2:RSCT2448L1125W	
30/48	US2:SNC3048L1200	US2:RSCT3048L1200	US2:RSCT3048L1200W	
40/60	US2:SNC4060L1200	US2:RSCT4060L1200	US2:RSCT4060L1200W	
12/24	US2:SNC1224L1125W	US2:RSCT1224L1125	US2:RSCT1224L1125W	
16/32	US2:SNC1632L1125W	US2:RSCT1632L1125	US2:RSCT1632L1125W	
24/48	US2:SNC2448L1125W	US2:RSCT2448L1125	US2:RSCT2448L1125W	
30/48	US2:SNC3048L1200W	US2:RSCT3048L1200	US2:RSCT3048L1200W	
40/60	US2:SNC4060L1200W	US2:RSCT4060L1200	US2:RSCT4060L1200W	

EQ3 & EQ4 Loadcentres

	# of Circuits	Catalogue Number		Door Kit	
		EQ3	EQ4	Grey	White
		12	N/A	EQ412100	DKEQ1218
18	N/A	EQ418100			
24	EQ324225	EQ424225	DKEQ2430	N/A	
30	N/A	EQ430225			
40	EQ340225	N/A	DKEQ42	N/A	
42	N/A	EQ442225			

EQ3 & EQ4 Service Entrance Rated

	# of Circuits	Catalogue Number		Door Kit	
		EQ3	EQ4	Grey	White
		24	EQ324BQ125	EQ424BQ100	DKEQ24BQ
32	EQ332BQ125	N/A	DKEQ42	N/A	
42	N/A	EQ442QR100	DKEQ42QR	N/A	
		EQ442QR125 EQ442QR125C EQ442QR150 EQ442QR200	DKEQ42QR	N/A	

Loadcentres Surge Protection

Circuit Breaker and Surge Protective Device (SPD)

Selection

Features

- 2 inch wide plug-on design
 - Includes (2) 1 Pole circuits breakers
 - No loss of loadcentre spaces
- Easy to install and perfect for retrofit
- LEDs provide protection status

Benefits

By installing a Siemens Circuit Breaker and Surge Protective Device (SPD) in the loadcentre of the residence, surge protection is provided for all branch circuits[Ⓞ].

Two green LED indicator lights are provided to show that surge protection is provided for all circuits connected to the loadcentre. These breakers should be used for circuit protection of frequently used household or facility circuits because the lights and devices connected to these circuits provide an effective indication that surge protection is being provided.

The circuit breaker and SPD utilize Siemens-built 150V AC, 40mm, metal oxide varistors (MOVs). The maximum impulse rating for the SPD module is 40kA. The standard interrupting rating for the circuit breakers is 10kAIC. All Type QP circuit breakers and SPD are plug-on style, with load terminals provided. The devices are rated for 120/240V AC and are calibrated for 40 degrees C maximum ambient applications.



1
LOADCENTRES

Breaker Type	Ampere Rating	Catalogue Number	Surge Type
QP 1- Pole 120/240V AC 10K AIC	(2) 15	QSA1515SPD	SPD
	(2) 20	QSA2020SPD	SPD

Catalogue Number	QSA1515SPD QSA2020SPD
Amperage	15 or 20 Amp
Number of Poles	(2) 1-Pole Circuit Breakers
Initial Clamping Level	240 Volts
Transient Energy Rating	360 Joules line-to-neutral 720 Joules line-to-line
Transient Suppression	500 volts peak, line-to-neutral
Voltage Rating	1000 volts peak, line-to-line
Peak Current Rating (impulse)	40,000 amperes
Discharge Voltage Characteristic	@ 1,500A, 600 volts @ 5,000A, 800 volts (both line-to-neutral)
Discharge Current Withstand Rating	10,000 amperes line-to-neutral
Circuit Breaker Interrupting Rating	10,000A, 120/240V AC
Listings/Certifications	UL, CSA Meets UL 1449 4th Edition

[Ⓞ] For warranty information please refer to the surge website www.usa.siemens.com/surge

Loadcentres Surge Protection

BoltShield™ Surge Protective Devices

Selection

QSPD series for loadcentres

Surge Protective Devices (SPDs) provide the best protection from both externally and internally generated surges when located as close to the building distribution system as possible. For cost and space reasons many buildings only include one SPD located at the main incoming loadcentre and do not cascade SPDs throughout the building as recommended by IEEE. The new Siemens QSPD series of SPDs are economical and easy to install in most panels throughout a building so that whole facility protection can be obtained.

Features & Benefits

- UL 1449 SPD Type 1[Ⓞ]
- Monolithic distribution grade MOV
- Thermally protected MOV
- 65kA surge current protection per phase
- 20kA I-nominal ratings
- 200kA SCCRs
- 10 year standard warranty
- Audible Alarm

Product specifications

General specifications	
Maximum surge current rating range	65kA per phase
UL Type designation	SPD Type 1*
UL 1449 I-nominal rating	20kA
UL 1449 short circuit current rating	200kA
Repetitive impulse	5,000 hits
Response time	<1 ns

Physical specifications	
Humidity range	0-95% non-condensing
Operating frequency	0-415Hz
Operating temperature	-25°C to +60°C
Dimensions in inches (mm)	2 pole 3 (77.9) x 2 (50.4) x 2.6 (65.3)
	3 pole 3 (77.9) x 3 (75.2) x 2.6 (65.3)
Weight	2 pole 0.64 lbs (237 g)
	3 pole 0.71 lbs (335 g)
Neutral/ground connection	#14 AWG (pre-wired)



Diagnostic monitoring specifications
Green/red visual mechanical flag failure indicators
Flashing dual colour led (green/red) status indicator
Audible alarm w/ silence switch/button

Design specifications
Monolithic distribution grade MOV
Integrated optimized thermal protection
Fits in footprint of Siemens QP breaker
Modes of protection (L-N or L-G, L-L)

[Ⓞ] Type 1 SPDs suitable for use in Type 2 applications

Loadcentres Surge Protection

BoltShield™ Surge Protective Devices

Selection

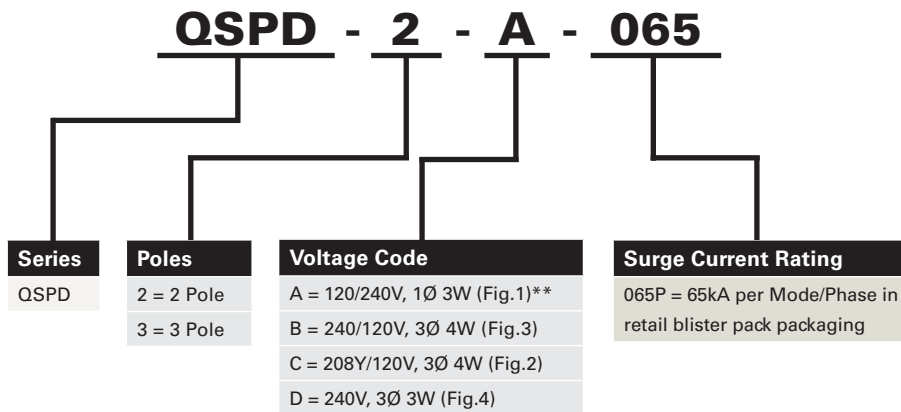
1
LOADCENTRES

UL 1449 performance data and ordering information							
System voltage	L-N (L-G)	L-L	I _n	SCCR	MCOV	Catalog numbers	Siemens breaker form factor
120/240V, 1Ø, 3W**	600V	1000	20kA	200kA	150V	QSPD2A065P*	2-P, Type Q Plug-In
240/120V, 3Ø, 4W	600V/900V	1200	20kA	200kA	150V	QSPD3B065	3-P, Type Q Plug-In
208Y/120V, 3Ø, 4W	600V	1000	20kA	200kA	150V	QSPD3C065	3-P, Type Q Plug-In
240V, 3Ø, 3W	900V	1500	20kA	200kA	280V	QSPD3D065	3-P, Type Q Plug-In

*QSPD2A065P comes in retail style blister pack packaging.
 **Can also be used on 208Y/120V, 1Ø, 3W System.

Standards compliance and certifications
UL 1449 5 th Edition, cUL, UL 96A compliant, CSA C22.2 No 269.1 & .2, ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285
ISO 9001:2014 quality management system, ISO 17025:2007 laboratory certification (UL DAP Program) , 100% quality tested prior to shipping

Catalogue Number Logic



**Can also be used on 208Y/120V, 1Ø, 3W System

Benefits of installing multiple QSPDs

Adding multiple QSPDs in a single load center can increase the modes of protection and the surge capacity. See the Boltshield brochure for more details and review the example chart below:

Number of QSPDs	Connection	Modes of protection	Surge current capacity per mode	Surge current capacity per phase
1	Neutral	3	65kA	65kA
2	Neutral + Ground	6	65kA	130kA
2	Neutral	3	130kA	130kA
3	Neutral(2) + Ground(1)	6	130kA(L-N) + 65kA (L-G)	195kA
3	Ground	3	195kA	195kA
4	Neutral(2) + Ground(2)	6	130kA	260kA

Loadcentres Surge Protection

Power Service Entrance Surge Protection

Selection

Total Home Protection

Siemens believes today's residential surge protectors come up short when protecting today's modern home filled with smart appliances and electronics.

This is why we developed commercial class total home surge protectors. These electrical system surge protectors are sized for where you live. They will let you know when there is something wrong or when they are worn out.

Know You're Protected:

3 Stage Commercial Grade Notification

When there is a problem, Siemens surge protector takes the guesswork out of knowing when it is time to be replaced. What will you see and hear when this occurs?

Audible Alarm: Beeps (available in select models)
Green LED(s): Extinguish(es)
Red Service Light: Flashes (available in select models)

Ground Reference Monitoring (GRM)

Selected models of surge protectors are GRM-equipped notifying you a rare safety hazard exists due to a compromised electrical system neutral to ground bond. What will you see and hear when this occurs?

Audible Alarm: Beeps (available in select models)
Green LED(s): Remains Lit
Red Service Light: Flashes (available in select models)

BoltShield™ FSPD

FSPD's are a line of surge protective devices for residential and commercial solutions. Listed as type 2 devices, the balanced defense and robustness provide assurance to property owners that their modern homes, buildings and appliances are fully protected.

Material ID	Surge current rating
FSPD036	36kA
FSPD060	60kA
FSPD100	100kA
FSPD140	140kA

FSPD036 Specifications

Design
Custom MOV design for high energy handling in Category C locations
Thermally protected MOV's
External parallel connected for mounting to electrical gear
Reduced mode of protection (L1-n, L2-N)
Diagnostic and Monitoring
LED Protection Status Monitoring (Single LED Standard)

FSPD060, FSPD100, FSPD140 Specifications

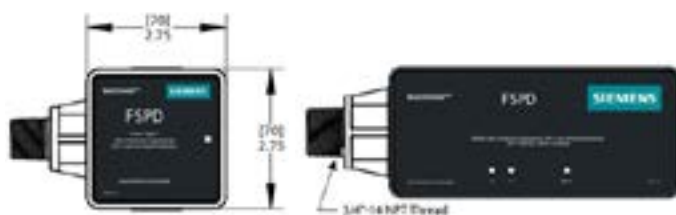
Design
Custom MOV design for high energy handling in Category C locations
Thermally protected MOV's
External parallel connected for mounting to electrical gear
All modes of protection (L-N, L-G, N-G)
Diagnostic and Monitoring
Phase Loss Monitoring (Standard)
Audible Alarm (Standard)
Form C Dry Contact, 240V, 2A (Standard)
2 GREEN LEDs - one for each Line disconnecter
1 RED LED - flashes if fault condition:
GRM (Ground Reference Monitoring), N-G voltage > 20V detected.

Features & Benefits

- Surge current capacity – the FSPD offers different surge protector sizes based upon geographic location and thunderstorm activity.
- FSPD: 36kA, 60kA, 100kA and 140kA
- 3-Stage– when the device wears out, the protection status LEDs extinguish, an audible alarm beeps, and a red service light flashes to warn the property owner.
- Modes of protection – the electrical system's primary paired conductor combinations of L-N, L-G, and N-G are directly surge protected. Exception – the low cost FSPD036 has a reduced mode of protection (L1-N, L2-N).
- Ground reference monitoring – GRM diagnostics monitor the health of a unit's neutral to ground bond and alert the property owner if the bond becomes loose, preventing a potential safety issue.
- Safety – The FSPD can achieve UL1449 listed 100kA SCCR - one of the highest ratings for residential surge protection.
- Compatibility – device installs in any load center brand.
- FSPD060, FSPD100, FSPD140: 10-year product and connected equipment warranty.



Material ID	Voltage Code	System Voltage	L-N	L-G	L-L	N-G	MCOV
FSPD036	A	120/240, 1Ø, 3W	700	—	1200	—	150
FSPD060, FSPD100, FSPD140	A		700	700	1200	700	



Size and Mechanical Specifications (in.)

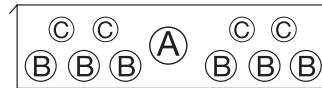
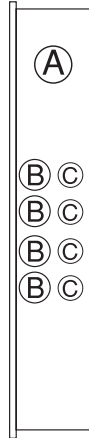
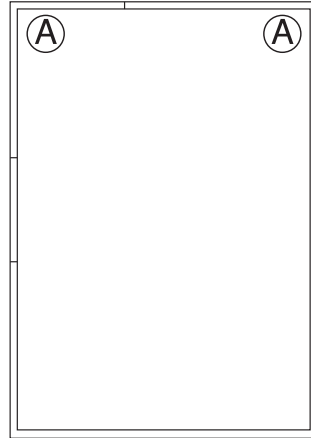
	FSPD036	FSPD060, FSPD100, FSPD140
Dimensions	4.25" x 2.41" x 2.75"	7.95" x 3.06" x 2.75"
Weight	0.46 lbs.	1.38 lbs.
Enclosure Type	Polycarbonate NEMA 4X	
Installation Type	Indoor/Outdoor	
Mounting Method	Flush/Flange/Through-hole	

Loadcentres

Knockout Data

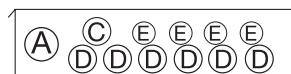
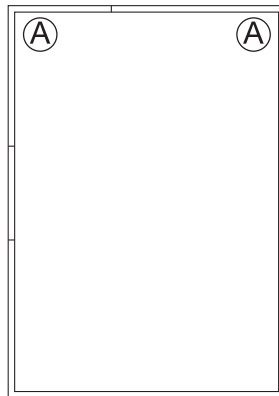
Selection

		K.O. Qty			
		A	B	C	D
EQL8	Box	6	6	6	4
	Top	1	6	4	2
	Bot.	1	6	4	2
EQG 6 EQL 12	Box	6	6	6	4
	Top	1	6	4	2
EQG 8NSND	Bot.	1	6	4	2
EQG 10 EQL 16	Box	6	8	8	4
	Top	1	6	4	2
EQG 12NSND	Bot.	1	6	4	2
		K.O. Trade Dia.			
A	3/4" - 1" - 1 1/4" - 1 1/2"				
B	1/2" - 3/4"				
C	1/2"				
D	1/4"				

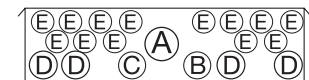


Top and Bottom

		K.O. Qty.				
		A	B	C	D	E
EQG 18	Box	4	2	-	18	16
EQL 24	Top	1	-	1	6	4
EQG 20NSND	Bot.	1	-	1	6	4
EQG 24	Box	4	2	2	2	36
EQL 32	Top	1	1	1	4	13
EQG 28NSND	Bot.	1	1	1	4	13
EQL 34	Box	4	2	2	2	36
EQL 40	Top	1	1	1	4	13
EQG 36NSND	Bot.	1	1	1	4	13
		K.O. Trade Dia.				
A	1 1/4" - 1 1/2" - 2" - 2 1/2"					
B	3/4" - 1" - 1 1/4"					
C	1/2" - 3/4" - 1"					
D	1/2" - 3/4"					
E	1/2"					



Top and Bottom for
EQL 24
EQG 18
EQG 20NSND



Top and Bottom for
EQL 32 & 40 cir.

Loadcentres

Knockout Data

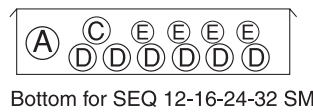
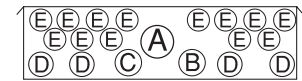
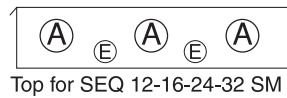
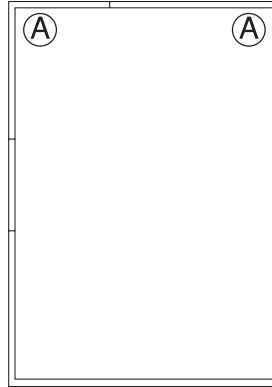
Selection

Service Entrance Loadcentres with Plug-in Breakers

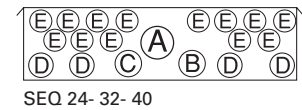
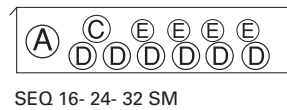
LOADCENTRES 1

		K.O. Qty.				
		A	B	C	D	E
SEQ 12 SM	Box	4	2	0	10	8
SEQ 16 SM	Top	3	0	0	0	2
	Bot.	1	0	1	6	4
SEQ 24 SM	Box	4	2	-	18	16
SEQ 32 SM	Top	3	-	-	-	2
	Bot.	1	-	1	6	4
	Box	4	2	2	2	22
SEQ 24	Top	1	1	1	4	13
	Bot.	1	1	1	4	13
	Box	4	2	2	2	36
SEQ 32	Top	1	1	1	4	13
	Bot.	1	1	1	4	13
	Box	4	2	2	2	36
SEQ 40	Top	1	1	1	4	13
	Bot.	1	1	1	4	13
	Box	4	2	2	2	68
SEQ60200	Top	1	1	1	4	13
	Bot.	1	1	1	4	13

		K.O. Trade Dia.				
A		1 1/4" - 1 1/2" - 2" - 2 1/2"				
B		3/4" - 1" - 1 1/4"				
C		1/2" - 3/4" - 1"				
D		1/2" - 3/4"				
E		1/2"				



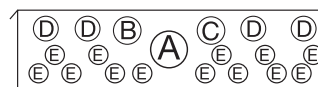
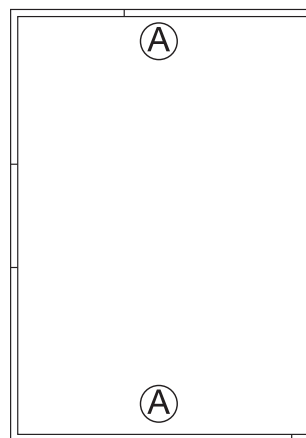
Service Entrance Loadcentres (Type 3R) Bottom Only



EQ Loadcentres with Plug-in or Bolt-on Breakers

		K.O. Qty.				
		A	B	C	D	E
All	Box	6	-	-	4	-
EQ 1PH	Top	1	1	1	4	13
EQ 3PH	Bot.	1	1	1	4	13

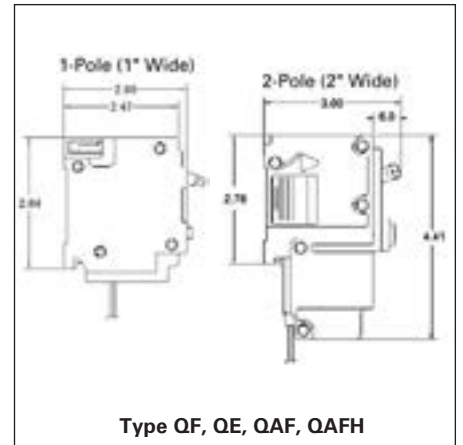
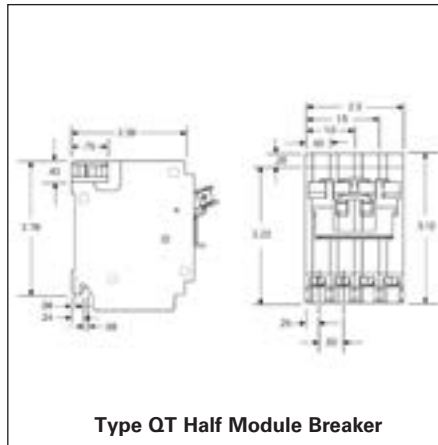
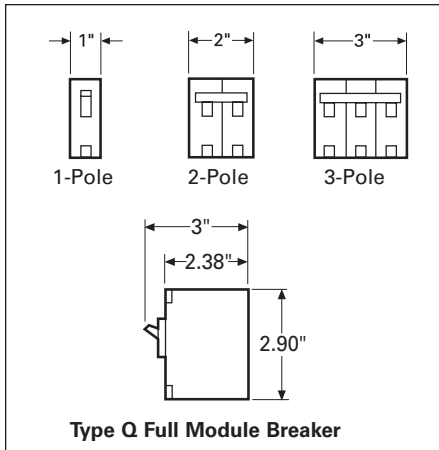
		K.O. Trade Dia.				
A		1 1/4" - 1 1/2" - 2 1/2"				
B		3/4" - 1" - 1 1/4"				
C		1/2" - 3/4" - 1"				
D		1/2" - 3/4"				
E		1/2"				



Loadcentres

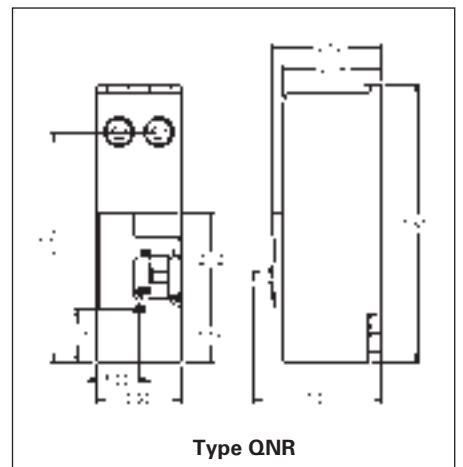
Line Diagrams/Dimension Drawings for Circuit Breakers/Lug Data

Selection



Lug Data

Circuit Breaker Type	Circuit Breaker Ampere Rating	Cables Per Connector	Connector Wire Range
	LOAD SIDE		
Q	15-30	1 1	#14-#8 AWG Cu #12-#8 AWG Al
	40-50	1 1	#8-#6 AWG Cu #8-#4 AWG Al
	60-70	1 1	#6-#2/0 AWG Cu #6-#2/0 AWG Al
	80-125	1 1	#8-#2/0 AWG Cu #8-#2/0 AWG Al
QNR	150-200	1	#1-300kcmil Cu-Al
QT	15-30	1 1	#14-#8 AWG Cu #12-#8 AWG Al
	40	1	#8 AWG CU-Al
QF, QE	15-30	1 1	#14-#10 AWG Cu #12-#8 AWG Al
	40-60	1 1	#8-#6 AWG Cu #8-#4 AWG Al
QAF, QAFH	15-20	1 1	#14-#12 AWG Cu #12-#10 AWG Al



Notes

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LOADCENTRES