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LOADCENTRES

### **Applications and Descriptions**

No. A	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.



Description

# Speeds Your Installation With Every Turn!

Included into all Loadcentres and Q Breakers

### **Product Offering and Specification Guide**

### 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 protectionCoaxial 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 41/4" (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 60/75YC wiring applications; ratings are as follows: loadcentre main terminals 60/75°C cu/al wire; branch breaker terminals-60/75YC 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.



### Description

### **Product Features and Customer Benefits**

Made in Canada, for Canada: Faster delivery and better service. Buying Canadian supports Canadian manufacturing

> Straight in wiring design: Helps reduce the need to bend cables and wires

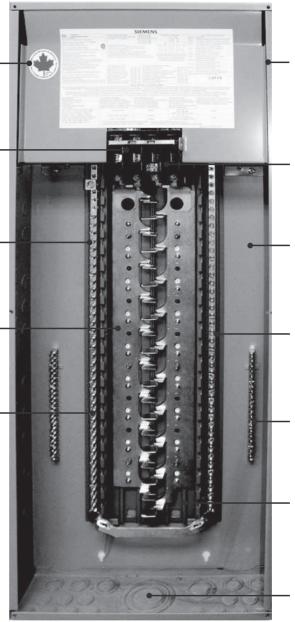
Combination slot/Robertson™ neutral and ground screws: Allowing for installation flexibility, enabling simple, one-tool installation and speed wiring

Both aluminum and copper bus bars: Meets any specification and job site requirement

Extended capacity fully distributed neutrals: Easily accessible, reduces installation time and simplifies wiring



Gasketed hinge door with outdoor loadcentre: Provides easy installation and improved weatherproof protection



Indoor loadcentres (type 1) can be mounted for either top or bot tom feed: Meeting job site require ments and reducing cable waste

Suitable for up to 22 kA short circuit current rating: Provides increased high fault current protection

Combination flush/surface trim in three colours: Meets any application need

Patented INSTA-WIRE™ neutrals and ground bars: Allows for faster installation as screws are backed out, ready for wire insertion

Factory installed ground bars: Reduces installation time and cost, no need to order additional ground bar kits

A flexible extruded plastic base pan: Makes breaker installation and removal quick and easy

**Concentric knockouts:** Makes wiring easy

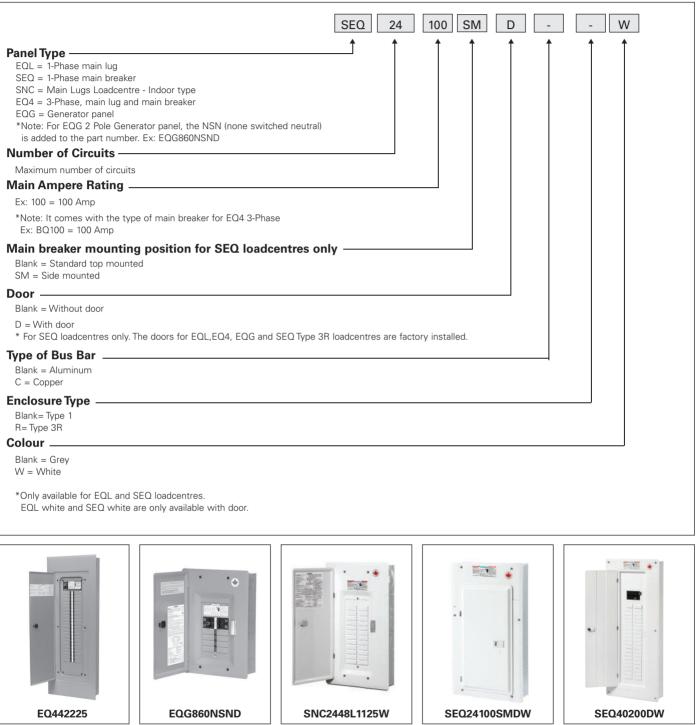
### Features and Benefits

1-4

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.

## **Catalogue Numbering System**

Catalogue Numbering System<sup>①</sup>



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

1-5

# EQL & SEQ Single Phase Main Lug & Main Breaker Loadcentres

### Selection and Ordering Data



LOADGENTRES

5

	EQL Load	centres with main lug	s only '	I phase 3 v	vire 240 V	AC max.			·					
E management of	Number	Ostala ma Namhan	Skid	Main	Dimens	ons - Inch	nes (mm)	Lug	Mounting	Door Kit	Factory			
	of Circuits	Catalogue Number	Qty.	Amps	н	W	D	Data	Trim	Catalogue Number	Mod.			
	2/4	EQL260S	330	60	7 (178)	5 (127)	2 <sup>3/4</sup> (70)	3	surface	N/A	N/A			
-	4/8	EQL4100	90	100	12 <sup>5/8</sup> (322)	6 <sup>5/8</sup> (168)	3 <sup>1/2</sup> (90)	1	comb.	N/A	N/A			
	8/16	EQL8100D*	72	100	14 <sup>7/8</sup> (378)	12 (305)	3 <sup>3/4</sup> (95)	4-2/0	comb.	DK8-A	N/A			
1	12/24	EQL12125D3	45	125	16 <sup>7/8</sup> (429)	12 (305)	3 <sup>3/4</sup> (95)	4-2/0	comb.	DK12-A	1			
La constantino de la constant	16/32	EQL16125D3	45	125	18 <sup>7/8</sup> (479)	12 (305)	3 <sup>3/4</sup> (95)	4-2/0	comb.	DK16-A	1			
EQL24125D	24/48	EQL24125D3	36	125	24 <sup>1/8</sup> (613)	13 <sup>1/32</sup> (331)	3 <sup>3/4</sup> (95)	4-2/0	comb.	DK24-A	1			
	32/64	EQL32200D <sup>3</sup>	27	200	33 (838)	14 <sup>1/4</sup> (362)	4 (102)	6-250 MCM	comb.	DKL32-2A	1			
	40/80	EQL40200D3	27	200	33 (838)	14 <sup>1/4</sup> (362)	4 (102)	6-250 MCM	comb.	DKL40-2A	1			
	Note: EQL	.8100D through EQL4	0200D3	are stocke	d comple	te with do	ors *	Neutral b	ar only on o	ne side of panel.				
	12/24	SNC1224L1125 <sup>3</sup>	28	125	18	14 <sup>1/4</sup>	3 <sup>7/8</sup>	2/0	comb.	RSCT1224L1125	N/A			
	16/32	SNC1632L1125 <sup>®</sup>	28	125	21	14 <sup>1/4</sup>	3 <sup>7/8</sup>	2/0	comb.	RSCT1632L1125	N/A			
	24/48	SNC2448L1125 <sup>3</sup>	28	125	24	14 <sup>1/4</sup>	3 <sup>7/8</sup>	2/0	comb.	RSCT2448L1125	N/A			
	30/48	SNC3048L12003	21	200	30	14 <sup>1/4</sup>	3 <sup>7/8</sup>	300 kcmil	comb.	RSCT3048L1200	N/A			
	40/60	SNC4060L12003	21	200	36	14 <sup>1/4</sup>	3 <sup>7/8</sup>	300 kcmil	comb.	RSCT4060L1200	N/A			
	Service Er	Service Entrance Loadcentres with Factory installed main breaker 1 phase 3 wire 240 V AC max.												
	12/24	SEQ12060SM	54	60	17 <sup>5/8</sup> (448)	13 <sup>1/8</sup> (333)	3 <sup>3/4</sup> (95)	6-2/0	comb.	DK1216SM-1	1			
•	16/32	SEQ16060SM <sup>®</sup>	36	60	19 <sup>5/8</sup> (498)	13 <sup>1/8</sup> (333)	3 <sup>3/4</sup> (95)	6-2/0	comb.	DK1216SM-1	1			
	24/48	SEQ24060SM <sup>2</sup>	36	60	24 <sup>1/8</sup> (613)	13 <sup>1/8</sup> (333)	3 <sup>3/4</sup> (95)	6-2/0	comb.	DK24SM-1	1			
	12/24 16/32	SEQ12100SM SEQ16100SM	54 36	100	17 <sup>1/2</sup> (444)	13 <sup>1/8</sup> (333)	3 <sup>3/4</sup> (95)	4-2/0	comb.	DK1216SM-1	1			
	24/48 24/48 24/48	SEQ24100SM <sup></sup> SEQ24100SMK <sup>■</sup> SEQ24125SM <sup>②</sup>	36	100 125	24 <sup>1/8</sup> (613)	13 <sup>1/8</sup> (333)	3 <sup>3/4</sup> (95)	4-2/0	comb.	DK24SM-1	1			
SEQ40200	24/48	SEQ24150 <sup>2</sup> SEQ24200	27	150 200	27 (686)	14 <sup>1/4</sup> (362)	4 (102)	6-250 MCM	comb.	DKS24-2A	1			
	32/64	SEQ32100SM SEQ32125SM	27	100 125	27 <sup>1/8</sup> (689)	13 <sup>1/8</sup> (333)	3 <sup>3/4</sup> (95)	4-2/0	comb.	DK32SM-1	1			
	32/64	SEQ32150 SEQ32200	27	150 200	33 (838)	14 <sup>1/4</sup> (362)	4 (102)	6-250 MCM	comb.	DKS32-2A	1			
	40/80	SEQ40100 SEQ40125	27	100 125	36 (914)	14 <sup>1/4</sup> (362)	4 (102)	6-250 MCM	comb.	DKS40-1A	1			
	40/80	SEQ40150 SEQ40200 <sup>2</sup>	27	150 200	36 (914)	14 <sup>1/4</sup> (362)	4 (102)	6-250 MCM	comb.	DKS40-2A	1			
	60/120	SEQ60200	18	200	46 (1168)	14 <sup>1/4</sup> (362)	4 (102)	6-250 MCM	comb.	N/A	N/A			
	Standar	d SEQ24100SMK with	n additi	onal knock	outs to bo	ottom plat	e							

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.

Pactory modification, see next page.

② For copper bus add suffix C to existing

part number. 4 weeks delivery required.

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

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

### Selection and Ordering Data

	Factory M	odifications <sup>①</sup>										
20	Туре	Description		С	atalogue	Number		E	ample		Deliv	ery
	EQL	White door and tri	m		add suf	fixW		EQL	24125D <b>W</b>			
	SNC	White door and tri	m		add suf	fixW		SNC12	24L1112S <b>W</b>			
	SEQ	Grey door installed White door and tri			add suf add suff				4125SM <b>D</b> 125SM <b>DW</b>		2 we	eks
	Door Kit	White Door kit			add suf	fix <b>W</b>		DK2	4SM-1 <b>W</b>			
	Note: All	door kits are availat	ole in Gi	ey and V	White cole	ours.						
* *	EQL	Copper Bus			add suff	fix <b>CR</b>		EQL2	24125DCR		4 weeks	
SEQ24125SM												
	Weatherpr	oof Loadcentre Ma	n Lug C	<b>)nly</b> , 1 pl	hase 3 wi	re 120/24	0V AC m	iax.		1		
	Number of	Catalogue	Skid	Main	Dimensions - Inches (m			1) Lug	Mounting	Factory	Hubs (sold seperately)	
	of Circuits	Number	Qty.	Amps	н	w	D	Data	Trim	Mod.	Conduit size (')	Catalogue Number
	12/24	EQL12125DCR	35	125	19 <sup>7/8</sup> (505)	13 <sup>3/4</sup> (349)	5 (127	) 6-2/0	surface only	N/A	3/4	ECHS075 ECHS100
	24/48	EQL24125DCR	28	125	24 <sup>7/8</sup> (632)	13 <sup>3/4</sup> (349)	5 (127	) 6-2/0	surface only	N/A	1 1/4 1 1/2	ECHS125 ECHS150
	40/80	EQL40200DCR	21	200	33 <sup>5/8</sup> (853)	15 (381)	5 (127)	) 6-250 MCM	surface only	N/A	2 2 1/2	ECHS200 ECHS250
EQL24125DCR	* Neutral	bar only on one side	e of par	el.								
	SEQ Type	3R Weatherproof Lo	adcent	re with F	actory in	stalled ma	ain break	ker 1 phase	3 wire 240V	AC max.		
	Number of	Catalogue	Skid	Main			hes (mm	Lug		Factory	Hubs (sold seperately)	
	Circuits	Number	Qty.	Amps	н	w	D	Data	Trim	Mod.	Conduit size (')	Catalogue Number
	16/32	SEQ16100SMCR	35	100	21 <sup>5/8</sup> (549)	13 <sup>9/16</sup> (345)	5 (127	) 6-2/0	surface only	N/A		
	24/48	SEQ24100SMCR	28	100	24 <sup>5/8</sup> (625)	13 <sup>9/16</sup> (345)	5 (127	) 6-2/0	surface only	N/A	3/4 1 1 1/4	ECHS075 ECHS100 ECHS125
	24/48	SEQ24200CR	21	200	27 <sup>1/2</sup> (699)	15 (381)	5 (127	) 6-250 MCM	surface only	N/A	1 1/2 2 2 1/2	ECHS150 ECHS200 ECHS250
	40/80	SEQ40200CR	21	200	36 <sup>1/2</sup> (927)	15 (381)	5 (127	) 6-250 MCM	surface only	N/A	2 1/2	LOHOLSU
		h SEQ and EQL wea tection. All SEQ and								for improv	ved weathe	rproof

SEQ24100SMCR

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

**Selection** 

Selection and Ordering Data

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Number of		Skid	Main	Dimens	sions - Incl	nes (mm)		Mounting Trim	Door Ki
Circuits	Catalogue Number	Qty.	Amps	н	w	D	Lug Data		Catalogu Numbe
20	SEQ38100U SEQ38125U	27 27	100 125	36	14 <sup>1/4</sup>	4	6-250MCM	h	DKS38-1
38	SEQ38150U SEQ38200U	27 27	150 200	(362)	(362)	(102)		comb.	DKS38-2
	kers: Only 1" full module			oth UL & C	SA cartifia		d to be installe	d in this loadcent	

# EQ3 Single Phase & EQ4 Three Phase Loadcentres

### Selection and Ordering Data

	EQ3 Single	Phase L	oadcentres								
	With Main L	ugs on	ly 1 phase 3 Wire 120/	/240 V AC n	nax. 10KA						
	Number		Catalogue Number	Main	Dimensi	ons - Inc	hes (mm)	Lug Data	Mounting	Door Catalogue	Factory
	Circuit	5		Amps	Н	W	D		Trim	Number	Mod.
_	24		EQ324225	225	34 (864)	14 <sup>3/8</sup>	43/8	6-300 MCM	comb.	DKEQ2430	0
	40		EQ340225	225	40 (1016)	(365)	(111)			DKEQ42	
			ce Loadcentre								
	With factory	' Installe	ed Main Breaker 1 pha	ase 3 Wire		AC max.	. 10KA				
-	24		EQ324BQ125	125	34 (864) 40	14 <sup>3/8</sup> (365)	4 <sup>3/8</sup> (111)	#6 - 2/0	comb.	DKEQ24BQ	1
	32		EQ332BQ125	125	(1016)	(000)	(111)			DKEQ42	
	EQ Three Ph										
	With main l	ugs onl	y 3 phase 4 wire 240V	AC max. 1		[	1				1
	12		EQ412100	100	28 (711)			14-2/0		DKEQ1218	
	18		EQ418100	100	28 (711)					DKEQ1218	1
	24		EQ424225	225	34 (864)	14 <sup>3/8</sup> (365)			comb.	DKEQ2430	
	30		EQ430225	225	34 (864)			6-300 MCM		DKEQ2430	
	42		EQ442225	225	40 (1016)					DKEQ42	
EQ424BQ100	Service Entr	ance Lo	oadcentres								
	With factory	' installe	lled main breaker 3 phase 4 wire 240 V AC max. 10 KA.								
	24		EQ424BQ100	100(BQ)	34 (864)			4-2/0		DKEQ24BQ	
	42		EQ442QR100	100(QR)	46 (1168)						
	42		EQ442QR125	125(QR)	46 (1168)	14 <sup>3/8</sup> (365)	4 <sup>3/8</sup> (111)	6-300 MCM	comb.	DKEQ42QR	1
_	42		EQ442QR150	150(QR)	46 (1168)					DREGIZER	
	42		EQ442QR200	200(QR)	46 (1168)						
	Factory Mod	lificatio	ns <sup>®</sup>								
	Туре		Description	Catal	ogue Nun	nber	Ex	ample		Delivery	
	EQ4		Copper Bus	ad	d suffix	C	EQ4	130225 <b>C</b>		4 Weeks	
	Lug Kits For	EQ Loa	adcentres								
	Catalogue ber	Num-	Loadcent	tre Amps R	lating				Description		
SFK225			i			Sub-feed Kit					
	SFK100			100				14-2/	0 (Per Phase	)	
	SFK100 SFK225			100 225				S	0 (Per Phase ub-feed Kit MCM (Per Ph		
								Si 1/0-250 Thro	ub-feed Kit	ase)	

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.

 $^{0}$ All 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

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LOADCENTRES

Selection

Siemens Canada Limited Power Product Catalogue

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LOADCENTRES

# SPA panel and Mini Panel/Enclosed Breaker

### Selection and Ordering Data

	SPA panel pa	ckage, 3R enclosure	120/240V 1	Phase 3 W	ire					
				0.501	Enclo	sure	Dimensions -	Inches (mm)	Hubs (sol	d seperately)
	Number of Circuits	Package Catalogue Number	Main Amps.	GFCI Included	н		w	D	Conduit Size (")	Catalogue Number
		W0408ML1125-20		QF220A					Cover	ECHS000
W0408ML1125		W0408ML1125-30		QF230A					3/4	ECHS075 ECHS100
_12g	4/8	W0408ML1125-40	125	QF240A	12 <sup>1/</sup> (312		6 (153)	4 <sup>1/4</sup> (108)	1 <sup>1/4</sup> 1 <sup>1/2</sup>	ECHS100 ECHS125 ECHS150
		W0408ML1125-50		QF250A					2	ECHS200
		W0408ML1125-60		QF260A					2 <sup>1/2</sup>	ECHS250
2-POLE GFCI	Each package	e also includes a 4-po	int ground	bar and Fre	ench ins	tructi	ons.			
6	Circuit Break	er Enclosures for Serv	vice Entran	ice and Con	nmercia	l Use				
BEEMERS EQ Lusion Corrus of Corrus of Co	EEMAC 1 End	closure (Indoor) 1 pha	ise 3 wire 2	240V AC Ma	х.					
Berne bezugen eine Berne bezugen gesternen. Bezugen gesternen in Statistikkenten gesternen einen.	Breaker	Catalogue	Main	Number		Dime	nsions - Inch	es (mm)		
C	Range		Amps.	of Poles	н		w	D		g Data
-	15-60A	EQS260* <sup>①</sup>	60	1,2	7 <sup>3//</sup> (197		5 (127)	2 <sup>3/4</sup>		14-4 (70)
6	15-125A	EQS2125* <sup>①</sup>	125	1,2	13 (330		6 <sup>5/8</sup> (168)	33/8		4-2/0 (86)
EQS260	*Does not ac	cept quad type break	er.							
	EEMAC 3R W	eatherproof Enclosur	e, 1 phase	3 wire 240\	AC Ma	х.				
10	Full Module Circuits	Catalogue Number		Main Amps.			nsions - Inch	1	Weight	Hub <sup>©</sup> Type
				Апрэ.	H		W = 1/2	D	lbs.	Type
ITE	3	WEQ60-4 <sup>①</sup>	3	60	10 <sup>1</sup> / (260		9 <sup>1/2</sup> (241)	5 <sup>5/8</sup> (143)	8	HR
	2/4	W0204ML106	013	60	8 (204	1)	5 (127)	4 <sup>1/4</sup> (108)	4	НА
WEQ60-4	4/8	W0408ML11	25 <sup>3</sup>	125	12 <sup>1/</sup> (312		6 (153)	4 <sup>1/4</sup> (108)	7	HS
WE000-4	8/16	W0816ML1125	SCU <sup>®</sup>	125	14 <sup>3,</sup> (375		12 <sup>1/8</sup> (308)	4 <sup>1/4</sup> (108)	7	HS
	Note: Packag	e does not include a	4-point gro	und bar, ple	ease ord	ler: G	iBK4	_!	1	
	Key Features Outdoor EEM	: IAC 3R enclosure				Hul	bs			
Real Provide Action	One piece I	ug-in Q type breakers ous bar construction on trim flush/surface					atalogue Number	Conduit size (')	Catalogue Number	Conduit size (')
W0816ML1125CU						E	CHA075	3/4	ECHS075	3/4
	<b>Remark:</b> ① The panels	s will not accommoda	te a 2 pole	ground fau	lt	E	CHA100	1	ECHS100	1
		FCI) or breaker with s	shunt trip.			E	CHA125	1 1/4	ECHS125	1 1/4
	<ul><li>② Hubs sold</li><li>③ Not to be up</li></ul>	seperately used as service entrar	nce.			E	CHR075	3/4	ECHS150	1 1/2
						E	ECHR100	1	ECHS200	2
						E	CHR125	1 1/4	ECHS250	2.5
						E	CHR150	1 1/2		

### **Generator panel**

### Selection and Ordering Data

	Catalogue	Skid		Dimens	ions - Inch	ies (mm)	Lun Data	Mounting
Circuits	Number	Qty.	Main Amps	н	w	D	Lug Data	Trim
6/12	EQG630D EQG660D EQG680D EQG6100D	63	30 60 80 100	16 <sup>7/8</sup> (429)	12 (305)	3 <sup>3/4</sup> (95)	14-6 6-2/0 6-2/0 6-2/0	Comb.
10/20	EQG1030D EQG1060D EQG1080D EQG10100D	45	30 60 80 100	18 <sup>7/8</sup> (479)	12 (305)	3 <sup>3/4</sup> (95)	14-6 6-2/0 6-2/0 6-2/0	Comb.
18/36	EQG1830D EQG1860D EQG1880D EQG18100D	36	30 60 80 100	24 <sup>1/8</sup> (613)	13 <sup>1/32</sup> (331)	3 <sup>3/4</sup> (95)	14-6 6-2/0 6-2/0 6-2/0	Comb.
26/52	EQG2630D EQG2660D EQG2680D EQG26100D	27	30 60 80 100	33 (838)	14 <sup>1/4</sup> (362)	4 (102)	14-6 6-2/0 6-2/0 6-2/0	Comb.
• 34/68	EQG3430D EQG3460D EQG3480D EQG34100D	27	30 60 80 100	33 (838)	14 <sup>1/4</sup> (362)	4 (102)	14-6 6-2/0 6-2/0 8-2/0	Comb.
Generator Pa Suitable for u	<b>nel,</b> 2 Pole 1 phase 3 w ise with a generator ha	ire 240V A0 ving an un	C Max. bonded neutral	conductor				
	EQG830NSND		30				14-8	
8/16	EQG860NSND EQG880NSND EQG8100NSND	63	60 80 100	16 <sup>7/8</sup> (429)	12 (305)	3 <sup>3/4</sup> (95)	6-2/0 6-2/0 6-2/0	Comb.
	EQG880NSND	63 45	60 80	-		-	6-2/0	Comb.
•	EQG880NSND EQG8100NSND EQG1230NSND EQG1260NSND EQG1280NSND		60 80 100 30 60 80	(429) 18 <sup>7/8</sup>	(305)	(95) 3 <sup>3/4</sup>	6-2/0 6-2/0 14-8 6-2/0 6-2/0	
12/24	EQG880NSND EQG8100NSND EQG1230NSND EQG1260NSND EQG1280NSND EQG12100NSND EQG2030NSND EQG2060NSND EQG2080NSND	45	60 80 100 30 60 80 100 30 60 80	(429) 18 <sup>7/8</sup> (479) 24 <sup>1/8</sup>	(305) 12 (305) 13 <sup>1/32</sup>	(95) 3 <sup>3/4</sup> (95) 3 <sup>3/4</sup>	6-2/0 6-2/0 14-8 6-2/0 6-2/0 6-2/0 14-8 6-2/0 6-2/0	Comb.

Factory ready for use in both switched and non-switched neutral applications
Additional number of generator circuits for more flexibility

# **Circuit Breakers**

## **Type Q Plug-In Breakers**

Selection and Ordering Data



5



Q115



Q215



Q315



Q1515NC



#### Q21515CTNC

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

③ 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".

Full Module (1"	per pole) 10,000	A.I.C	
	e Rating	Catalogue Number	Standard Package
Single Pole			
	5	Q115 <sup>3</sup>	
	20	Q120 <sup>®</sup>	
	25 30	Q125 Q130	
	10	Q140	48
	50	Q150	
6	50	Q160	
	70	Q170	
Two Pole Comn	-	-	
	15 20	Q215 Q220	
	25	0225	
	30	Q230	
3	35	Q235	24
	10	Q240	
	50 50	Q250 Q260	
	70	Q270	
	30	Q280	
	90	Q290	E
	00	Q2100	5
	10	Q2110	
	25	Q2125	
	50 00	QN2150R@© QN2200R@©	1
Three Pole Com			<u> </u>
1	5	Q315	
	20	Q320	
	25	Q325	
	30 10	Q330 Q340	3
	50	Q350	
6	50	Q360	
7	70	Q370	
	30	Q380	
	90 00	Q390 Q3100	2
	2″ per pole) 10,00		
Poles	Amps	Catalogue Number®	Standard Package
. 5100	15-15	Q1515NC	
	15-15	Q1515NC	
	15-30	Q1530NC	
	15-40	Q1540NC	
QT	20-15	Q2015NC	
Dual	20-20	Q2020NC	48
(Twin)	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 <sup>®</sup>	Standard Package
	15-15	Q21515CTNC	
	15-20	Q21520CTNC	
OT	15-25	Q21525CTNC	24
Quad	15-30	Q21530CTNC	
	15-40	Q21540CTNC	
		C2104001140	<u> </u>

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

Requires 4 panel circuits, 2 adjacent and 2 opposite.

- Two twist outs should be only removed.
- S Will not fit in EQ3 or EQ4 loadcenters

# **Circuit Breakers**

# **Surge Arrester and Replacement Main Breakers**

### Selection and Ordering Data

	Replacement	Main Breakers for S	SEQ Loadcentres 22,000 A.I.C.		
	Poles	Ampere Rating	Catalogue Number	Standard Package	LOA
		60	Q260H	6	DCENTRES
EQ9675	N/A	100 125 150 200	EQ9675 EQ9677 EQ9683 EQ9685	1	

# **Arc-Fault and Ground Fault Circuit Interrupters**

Selection

### Selection and Ordering Data





2-Pole

Combination

1-Pole Combination Type AFCI



1-Pole Dual Function AFCI/GFCI





2-Pole GFCI



1-Pole GFCI

1-Pole GFCI

2-Pole GFCI

			Interrupting Rating	
Poles	Ampere Rating	10Ka	22kA	65Ka
	inating		Catalogue Number	1
		Interupters (AFCI), Fulles of arc faults: line-to-g	Module (1" per pole) ground, line-to-neutral,	and series.
1	15 20	QA115AFCCSA QA120AFCCSA	QA115AFCH QA120AFCH	QA115AFCHH QA120AFCHH
2	15 20	Q215AFCCSA Q220AFCCSA	Q215AFCH Q220AFCH	N/A N/A
The Dual Fund	tion Circuit Bre		ation Type AFCI and GF elf Test as an added saf	
1	15 20	Q115DF Q120DF	Q115DFH Q120DFH	Q115DFHH Q120DFHH
Provides Class	s A (5mA) grour		(1" per pole) Class A (5 nded for personnel prot	
1	15 20 30	QF115A QF120A QF130A	QF115AH QF120AH QF130AH	QF115AHH QF120AHH QF130AHH
2	15 20 30 40 50 60	QF215A QF220A QF230A QF240A QF250A QF250A QF260A	QF215AH QF220AH QF230AH QF240AH QF250AH QF250AH QF260AH	N/A
			e (1" per pole) 30mA Se e-to-ground faults curre	· ·
1	15 20	QE115 QE120	N/A N/A	N/A N/A
2	30 15 20 30 40 50 60	QE130 QE215 QE220 QE230 QE240 QE250 QE260	QE130H QE215H QE220H QE230H QE240H QE250H QE260H	N/A N/A N/A N/A N/A N/A N/A

# Type BQ Bolt-on<sup>®</sup> and Blue line Circuit Breakers

### Selection and Ordering Data

			-,
Full Module BC	D 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			<b>I</b>
15 20 25 30 40 50 60 70	BQ1B015 BQ1B020 BQ1B025 BQ1B030 BQ1B040 BQ1B050 BQ1B050 BQ1B070	BQ1B015H BQ1B020H BQ1B025H BQ1B030H BQ1B040H BQ1B050H BQ1B050H BQ1B070H	12
Two Pole Com	mon Trip		
15 20 25 30 40 50 60 70 80 90 100 125	BQ2B015 BQ2B020 BQ2B025 BQ2B030 BQ2B040 BQ2B050 BQ2B060 BQ2B070 BQ2B080 BQ2B090 BQ2B100 BQ2B125	BQ2B015H BQ2B020H BQ2B025H BQ2B030H BQ2B040H BQ2B050H BQ2B050H BQ2B070H BQ2B080H BQ2B090H BQ2B090H BQ2B100H	6
		R038015H	
15 20 30 40 50 60 70 90 100	BQ3B015 BQ3B020 BQ3B030 BQ3B040 BQ3B050 BQ3B060 BQ3B070 BQ3B090 BQ3B100	BQ3B015H BQ3B020H BQ3B030H BQ3B040H BQ3B050H BQ3B060H BQ3B070H BQ3B090H BQ3B100H	4
	Ampere Rating           Single Pole           15           20           25           30           40           50           60           70           Two Pole Com           15           20           25           30           40           50           60           70           15           20           90           100           125           Three Pole Cor           15           20           30           40           50           60           70           30           40           50           60           70           30           40           50           60           70           30           40           50           60           70           90	Ampere Rating         10,000 A.I.C. Catalogue Number           Single Pole         Catalogue Number           15         BQ1B015           20         BQ1B020           25         BQ1B030           30         BQ1B030           40         BQ1B050           60         BQ1B060           70         BQ1B070           Two Pole Common Trip           15         BQ2B015           20         BQ2B020           25         BQ2B025           30         BQ2B030           40         BQ2B040           50         BQ2B050           60         BQ2B060           70         BQ2B070           80         BQ2B080           90         BQ2B100           100         BQ2B100           125         BQ3B015           20         BQ3B015           30         BQ3B030           40         BQ3B040           50         BQ3B050           60         BQ3B040           50         BQ3B050           60         BQ3B050           60         BQ3B050           60         BQ3B040	Rating         Catalogue Number         Catalogue Number           Single Pole         BQ18015         BQ18015H           15         BQ18020         BQ18020H           25         BQ18030         BQ18030H           30         BQ18030         BQ18030H           40         BQ18050         BQ18030H           50         BQ18050         BQ18050H           60         BQ18060         BQ18070H           70         BQ28015         BQ28015H           70         BQ28020         BQ28020H           25         BQ28020         BQ28020H           26         BQ28020         BQ28020H           27         BQ28020         BQ28020H           28         BQ28020         BQ28020H           29         BQ28020         BQ28020H           30         BQ28030         BQ28030H           40         BQ28040         BQ28040H           50         BQ28070         BQ28040H           50         BQ28070H         BQ28040H           60         BQ28070H         BQ28040H           70         BQ28070H         BQ28040H           80         BQ28070H         BQ28040H           80

BQ Screws are sold separately  $^{(\!1\!)}$ 

	Type Blue line circuit breakers		
	Ampere Rating	Catalogue Number	Standard Package
	15 20 30 40 50	BL1-015 BL1-020 BL1-030 BL1-040 BL1-050	20
	15 20 30 40	BL2-015 BL2-020 BL2-030 BL2-040	10
	Description	Catalogue Number	Standard Package
	Tie Handle	BLTH1	20
BL1-015	6 - 1 Pole Fillers	BLF6	20
	Note: These breakers are used as re	placement in old ITE Loadcentres	

<sup>①</sup> Order line side screw kits separately: 8217-6 (6 pcs.) 8217-12 (12 pcs.) 8217-100 (100 pcs.) 8217-200 (200 pcs.)

**Selection** 

INSTA 🖉 WIRE'''

1 LOADCENTRES

### **Accessories and Replacement Parts**

### Selection and Ordering Data





ECOTH3



ECOTH2





ECQLD3

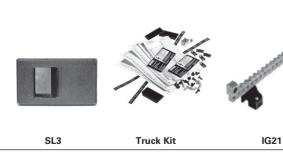
LK3

ECQL1



ECQFL2





	III5777	WIRE
Catalogue Number	Description	Std. Pkg.
Tie Handle		
ECQTH2 ECQTH3 QTH4	QT Dual Tie Handle-Floating Q 2-Pole Tie Handle QT Dual Tie Handle - Bar Type	25 50 5
Blocking Device		
ECQL1 ECQLD3	Handle Blocking Device (1,2 or 3 Pole) Padlocking Device (1,2 or 3 Pole) for full module breakers	10
ECPLD1 ECPLD2	Padlocking Device (1 Pole) for Twin type breakers Padlocking Device (2 Pole) for Quad type breakers	3
Lock		
ECQFL2	Add-A-Lock (all EQ Loadcentres)	1
Neutral Lug Kits	·	
LK2 LK3 LK4	No. 4-2/0 CU/AL No. 1-300 MCM CU/AL No. 1-400 MCM CU/AL	1
Lug Kit <sup>®</sup>		
ECLK2225	No. 2-300 MCM CU/AL	1
Miscellaneous		
QF3 SL3 SL3W IG21 Truck-Kit	Three 1-Pole Fillers Sliding Black Latch Sliding White Latch Insulated Ground Bar Kit Contractor Truck Kit	1
TRIMSCK1Z CIRNOLA32 CIRNOLA40 CIRNOLA60 DIRLBLK-EQLSEQ DIRLBLK-SM DIRLBLKSEQ60 MAINLBLK-EQLSEQ TUP-RA236QF TUP-PL126Q	Screws for trims "Zink" Circuit labels up to 32 circuits for SEQ 125A Circuit labels up to 40 circuits Circuit labels up to 60 circuits Directory labels EQL, SEQ Directory labels SEQ side mounted NMMB Directory Card "Package of 25" Replacement Main Label Kit SEQ-EQL White Powder Coat Spray Paint Grey Powder Coat Spray Paint	

Selection

 $\textcircled{\sc 0}$  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).

1-16

# **Accessories and Replacement Parts**

#### **SEQ Loadcentres**

	# of	Catalogue	Doe	or Kit	Door	Door & Trim	
•	Circuits	Number	Grey	White	Grey	White	
	12/24	SEQ12060SM	DK1216SM-1	DK1216SM-1W	DK12SM	DK12SMW	
	16/32	SEQ16060SM	DK12105IVI-1	DK12105IVI-1VV	DK16SM	DK16SMW	
	24/48	SEQ24060SM	DK24SM-1	DK24SM-1W	DK24SM	DK24SMW	
	12/24	SEQ12100SM	DK1216CM 1	DK12166M 1W	DK12SM	DK12SMW	
	16/32	SEQ16100SM	DK1216SM-1	DK1216SM-1W	DK16SM	DK16SMW	
it	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	
8	32/64	SEQ32150 SEQ32200	N/A	N/A	DKS32-2A	DKS32-2AW	
	40/80	SEQ40100 SEQ40125	N/A	N/A	DKS40-1A	DKS40-1AW	
Trim	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	Catalogue	Main Brea	aker Cover	Branch Bre	eaker Cover
	Circuits	Number	Grey	White	Grey	White
- <b>-</b>	12/24	SEQ12060SM			SEQ12060SM-T	SEQ12060SM-TW
	16/32	SEQ16060SM			SEQ16060SM-T	SEQ16060SM-TW
	24/48	SEQ24060SM			SEQ24060SM-T	SEQ24060SM-TW
	12/24	SEQ12100SM	DKMCCM	DKAACCAAN	SEQ12100SM-T	SEQ12100SM-TW
	16/32	SEQ16100SM	DKMCSM	DKMCSMW	SEQ16100SM-T	SEQ16100SM-TW
		SEQ24100SM SEQ24125SMK SEQ24125SM			SEQ24100SM-T	SEQ24100SM-TW
Main Breaker Cover	24/28				SEQ24125SM-T	SEQ24125SM-TW
				SEQ24125SM-T	SEQ24125SM-TW	
•	24/48	SEQ24150 SEQ24200	N/A <sup>®</sup>	N/A <sup>®</sup>	SEQ24-TA	SEQ24-TAW
20	32/64	SEQ32100SM	DKMCSM	ICSM DKMCSMW	SEQ32100SM-T	SEQ32100SM-TW
	32/04	SEQ32125SM			SEQ32125SM-T	SEQ32125SM-TW
	32/64	SEQ32150 SEQ32200			SEQ32-T	SEQ32-TW
	40/80	SEQ40100 SEQ40125	]N/A <sup>®</sup>	N/A <sup>®</sup>	SEQ40100-T	SEQ40100-TW
Branch Breaker Cover	40/80	SEQ40150 SEQ40200			SEQ40-T	SEQ40-TW
	60/120	SEQ60200			SEQ60-T	SEQ60-TW

<sup>①</sup> Branch Breaker Cover part covers the main breaker area and branch circuits.

Selection

INSTA WIRE"

# **Accessories and Replacement Parts**

#### EQL Loadcentres

LOADCENTRES

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			Doo	r Kit	
	# of Circuits	Catalogue Number	Grey	White	
	2/6	EQL260S	N//A	N//A	
	4/8	EQL4100	N/A	N/A	
	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	
the second second	32/64	EQL32200D	DKL32-2A	DKL32-2AW	
	40/80	EQL40200D	DKL40-2A	DKL40-2AW	

Selection

#### **SNC Loadcentres**

		SNC	SNC D	oor Kit
	# of Circuits Catalogue Number		Grey	White
0.00	12/24	US2:SNC1224L1125	US2:RSCT1224L1125	US2:RSCT1224L1125W
	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
and seatons.	16/32	US2:SNC1632L1125W	US2:RSCT1632L1125	US2:RSCT1632L1125W
	24/48	US2:SNC2448L1125W	US2:RSCT2448L1125	US2:RSCT2448L1125W
0.1	30/48	US2:SNC3048L1200W	US2:RSCT3048L1200	US2:RSCT3048L1200W
	40/60	US2:SNC4060L1200W	US2:RSCT4060L1200	US2:RSCT4060L1200W

#### EQ3 & EQ4 Loadcentres

		Catalogue Number		Doo	r Kit
	# of Circuits	EQ3	EQ4	Grey	White
	12	N/A	EQ412100	DKEQ1218	N/A
1.1	18	N/A	EQ418100	DREQ1210	IN/A
	24	EQ324225	EQ424225	DKEQ2430	N/A
	30	N/A	EQ430225	DREQ2430	IN/A
	40	EQ340225	N/A		
	42	N/A	EQ442225	DKEQ42	N/A

#### EQ3 & EQ4 Service Entrance Rated

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

# Loadcentres Surge Protection

# **Circuit Breaker and Surge Protective Device (SPD)**

### 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<sup>®</sup>.

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.

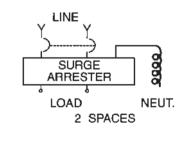
The circuit breaker and SPD utilize Siemens-built 150V AC, 40mm, metal oxide varistors (MOVs). The maximum impulse rating for the SPD module is 40kA. The standard interrupting rating for the circuit breakers is 10k AIC. All Type QP circuit breakers and SPD are plug-on style, with load terminals provided.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

Breaker Type	Ampere Rating	Catalogue Number	Surge Type
QP	(2) 15	QSA1515SPD	SPD
1- Pole	(2) 15	03A 13 133FD	510
120/240V AC	(2) 20	QSA2020SPD	SPD
10K AIC	(2) 20	U3A20203PD	350

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

Circuit Breaker and Surge Protective Device (SPD)





# **Loadcentres Surge Protection**

## **Power Service Entrance Surge Protection**

#### FirstSurae™

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LOADGENTRES

#### **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 our FirstSurge<sup>™</sup> 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.

Based upon thunderstorm frequency, geographic location, and home size, we developed a surge exposure map correlating with FirstSurge™ current capacities known to provide years of protective service for each shaded area.

#### Sized For Where You Live

Model	Surge Capacity
FirstSurge <sup>™</sup> Power	(FS060) 60,000 A
FirstSurge <sup>™</sup> Plus	(FS100) 100,000 A
FirstSurge <sup>™</sup> Pro	(FS140) 140,000 A



#### Know You're Protected: **3 Stage Commerical Grade Notification**

When there is a problem, Siemens FirstSurge™ 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
Green LED(s):	Extinguish
Red Service Light:	Flashes

#### Ground Reference Monitoring (GRM)

FirstSurge<sup>™</sup> is 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 Green LED(s): Remains Lit Red Service Light: Flashes

FirstSurge

EirstSurge







# FirstSurge PIRSTSURGE

#### Features & Benefits

- UL 1449 4th Ed Listed, CSA 22.2 No.269.2-13, Type 2 Surge Protective Device (SPD)
- Rated for 120/240 split phase panels up to 400A
- Surge Current Capacities:
  - 60.000 A
  - 100,000 A
  - 140.000 A
- 3 Stage Commercial Grade Notification
- Ground Reference Monitoring (GRM)
- Installs onto any brand loadcenter
- Type 4 rated outdoor enclosure
- 10 year product and connected equipment warranty\*

Technical Specifications				
Surge Spike Capacity	FirstSurge™ Power (FS060)         60,000 /           FirstSurge™ Plus (FS100)         100,000           FirstSurge™ Pro (FS140)         140,000	A		
Line Voltage	120/240 Split Phase, 50/60 Hz	-		
UL 1449 4th Ed VPR	L-N: 600 V L-G: 600 V N-G: 600 V L-L: 900 V			
Rated Voltage (MCOV)	150V – L-N, L-G, and N-G; 300V – L-L			
Response Time	<1 nanosecond			
Enclosure	NEMA 4X Indoor and Outdoor Rated			
Selection Information				
FirstSurge™ Power	FS060			
FirstSurge™ Plus	FS100			
FirstSurge™ Pro	FS140			
FirstSurge™ Flush Mount Kit	XMFMKIT			



# **Loadcentres Surge Protection**

### **Telephone Service Entrance Surge Protection**

Siemens FSPHONE is a 2 pair, hardwired surge protector for telephone, DSL or modem connected electronics in residential and light commercial applications. The FSPHONE protects against electrical power surges that can enter through the main telephone connection and is equipped with a failshort device to permanently ground the telephone line in the event of a power cross.

The FSPHONE is designed for indoor applications or can be mounted inside another weatherproof enclosure for outdoor mounting applications.

The FSPHONE4X consists of the FSPHONE plus a weatherproof enclosure to facilitate indoor or outdoor applications. The enclosure is molded of temperature and humidity resistant thermoplastic to resist cracking and discoloration. The cover can be secured with a tie wrap or similar locking device.

For total home protection please use FirstSurge<sup>™</sup> to protect your incoming AC Power lines and FSPHONE to protect your incoming telephone line.

#### Features & Benefits

- UI listed
- Hardwired Modem/Fax/DSL protection
- Easy to install
- Exceptionally fast response time
- Low insertion loss
- Available with or without enclosure
- 5-Year product warranty\*

### **Coaxial Service Entrance Surge Protection**

Siemens FSCATV shields coaxial connected electronics in residential and light commercial applications against electrical transient damage, including lightning, from entering through the main cable connection.

FSCATV includes a section of coaxial cable with female to female splice for line side application. The Siemens warranty covers product defects for 5 years. To have complete protection for your equipment, home, or business, it is important to protect AC power lines and all data lines the equipment is connected through.

#### Features & Benefits

- UL Listed
- Rated for CATV, DSS, TV, VCR, and Cable Modem
- Easy to install
- Standard Female to Female F connector
- Low insertion loss
- Automatic recovery
- 5 Year product warranty\*



Technical Specifications					
Frequency Range		DC thru 1.5 GHz			
Catastrophic Surge	e Circuit	Yes			
Spike Capacity		5000 Amps, 8/20 µSec			
Impedance		75 Ohms			
Overcurrent Protect	ction	Yes			
Return Loss		30dB @ 1 GHz			
Insertion Loss		<0.1dB			
Agency Approvals & Warranty					
UL/cUL Listings		497C			
Meets IEEE C62.4	Yes				
Product Warranty FS140					
Catalogue Number					
ESCATV	E-Type Inline Coax Protector				

F-Type Inline Coax Protector UL Model No. - SurgeassureTM SAVFFF

Selection

LOADCENTRES





Technical Specifications						
Catastrophic Surge	Circuit	Yes				
Spike Capacity		200 Amps				
Let Through Voltag	e	<270 V				
Overcurrent Protect	tion	Yes				
Response Time		<1 nanosecond				
Enclosure Yes						
Agency Approvals	Agency Approvals & Warranty					
UL/cUL Listings		497C				
Meets Telcordia (fo Requirements for T Protectors	Yes					
Product Warranty FS140						
Catalogue Number						
FSPHONE	2 pair protection module					
FSPHONE4X	2 pair protection module & 1 Weatherproof Enclosure					
UL Model No SATH2						

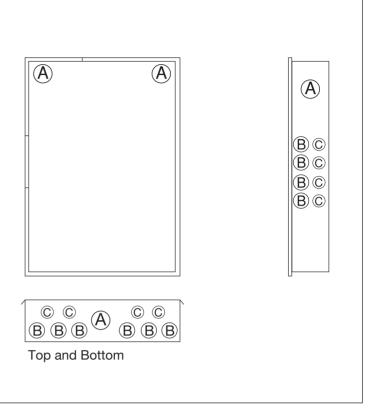
## **Knockout Data**

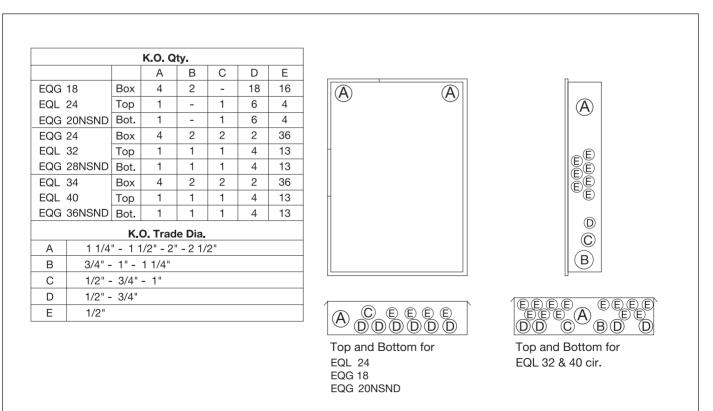
### **Selection**

LOADGENTRES

5

K.O. Qty						
A B C D						
		Box	6	6	6	4
EQL8		Тор	1	6	4	2
		Bot.	1	6	4	2
EQG 6		Box	6	6	6	4
EQL 12		Тор	1	6	4	2
EQG 8N	SND	Bot.	1	6	4	2
EQG 10		Box	6	8	8	4
EQL 16		Тор	1	6	4	2
EQG 12NSND		Bot.	1	6	4	2
K.O. Trade Dia.						
А	3/4" - 1" - 11/4" - 11/2"					
В	1/2" - 3/4"					
С	1/2"					
D	1/4"					





### **Knockout Data**

Service Entrance Loadcentres with Plug-in Breakers

### **Selection**

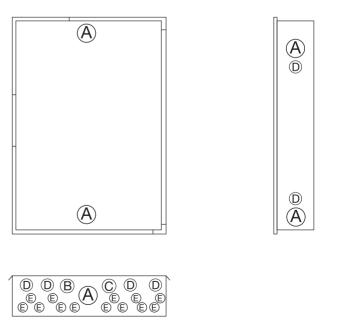


			<b>к.о. с</b> А	B	С	D	E
SEQ 1	2 SM	Box	4	2	0	10	8
SEQ 1	6 SM	Тор	3	0	0	0	2
		Bot.	1	0	1	6	4
SEQ 2	4 SM	Box	4	2	-	18	16
SEQ 3	2 SM	Тор	3	-	-	-	2
		Bot.	1	-	1	6	4
		Box	4	2	2	2	22
SEQ 2	4	Тор	1	1	1	4	13
		Bot.	1	1	1	4	13
		Box	4	2	2	2	36
SEQ 3	2	Тор	1	1	1	4	13
		Bot.	1	1	1	4	13
		Box	4	2	2	2	36
SEQ 4	0	Тор	1	1	1	4	13
		Bot.	1	1	1	4	13
		Box	4	2	2	2	68
SEQ60	200	Тор	1	1	1	4	13
		Bot.	1	1	1	4	13
		K.(	D. Trac	le Dia.		•	
А	1 1/4" - 1 1/2" - 2" - 2 1/2"						
В	3/4" - 1" - 1 1/4"						
С	1/2" - 3/4" - 1"						
D	1/2" - 3/4"						
Е	1/2"						

	A
A     B     A     B       Top for SEQ 12-16-24-32 SM	$ \begin{array}{c} \hline \hline$
A D D D D D D D Bottom for SEQ 12-16-24-32 SM	Bottom Only

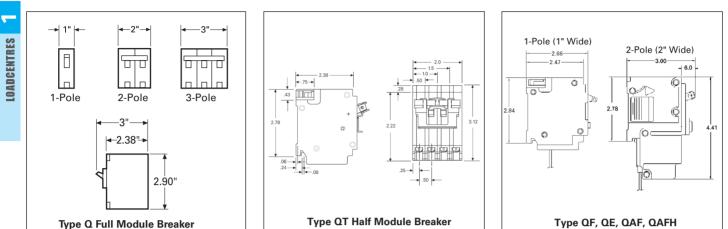
### EQ Loadcentres with Plug-in or Bolt-on Breakers

K.O. Qty.										
	A B C D E									
All		Box	6	-	-	4	-			
EQ 1P	Ή	Тор	1	1	1	4	13			
EQ 3P	Q 3PH Bot.			3PH Bot. 1 1				1	4	13
	K.O. Trade Dia.									
A	1	1/4" - 11	1/2" - 2	1/2"						
В	B 3/4" - 1" - 11/4"									
C 1/2" - 3/4" - 1"										
D 1/2" - 3/4"										
E	1.	/2"								



# Line Diagrams/Dimension Drawings for Circuit Breakers/Lug Data

### Selection



#### Type Q Full Module Breaker

# Lug Data

Circuit Breaker Type	Circuit Breaker Ampere Rating	Cables Per Connector	Connector Wire Range		
	LOAD SIDE				
٥	15–30	1 1	#14–#8 AWG Cu #12–#8 AWG AI		
	40–50	1 1	#8–#6 AWG Cu #8–#4 AWG AI		
	60–70	1 1	#6–#2/0 AWG Cu #6–#2/0 AWG AI		
	80-125	1 1	#8-#2/0 AWG Cu #8-#2/0 AWG AI		
QNR	150–200	1	#1-300kcmil Cu-Al		
ΩΤ	15–30	1 1	#14–#8 AWG Cu #12–#8 AWG AI		
	40	1	#8 AWG CU-AI		
QF, QE	15–30	1 1	#14–#10 AWG Cu #12–#8 AWG AI		
	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 AI		

