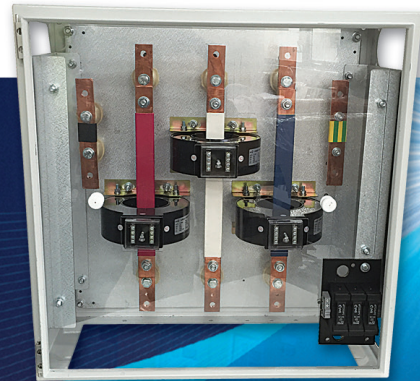




EVOLUTION 630

3 Phase Kit Form

Low Current Switchboards



Evolution 630

A switchboard system designed and tested for 160A - 630A main switchboards.

The modular system designed for fast assembly.

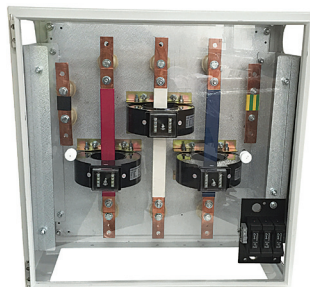
Features:

- Type tested to 50kA (TCA No. 103550)
- Complements Evolution distribution board range
- Mounting pans for mounting equipment
- Internal access between enclosures
- Galvanized Plinths
- Selection of gland plates
- Neutral and Earths link kits
- Incomer MCCB's Electronic
- Selection of door locks and handles
- Choice of Grey or Orange paint, ripple finish
- Escutcheons blank or pre-punched
- Optional cable zones





INCOMER MODULE



CT MODULE



METERING MODULE



OUTGOING MODULE

INCOMER MODULES

Description	Size (mm)	Part No. GREY	Part No. ORANGE
FE 160A/250A	400W x 800H x 300D	EMM48INCFFG	EMM48INCFFA
FE 160A/250A	600W x 800H x 300D	EMM68INCFFG	EMM68INCFFA
FG 400A/630A	600W x 800H x 300D	EMM68INCFFG	EMM68INCFFA

Includes Earth & Neutral links.

*MCCB & Accessories to be added.

CT MODULES

Description	Size (mm)	Part No. GREY	Part No. ORANGE
S CT Module 160A/250A	600W x 600H x 300D	EMM66SCTG	EMM66SCTA
T CT Module 400A/630A	600W x 600H x 300D	EMM66TCTG	EMM66TCTA

*CT's not supplied.

METERING MODULES

Description	Size (mm)	Part No. GREY	Part No. ORANGE
160A - 630A	600W x 600H x 300D	EMM66MTRG	EMM66MTRA

*CT test links not included (optional extra).

OUTGOING MODULES

Description	Size (mm)	Part No. GREY	Part No. ORANGE
2 x FE direct mounting	400W x 800H x 300D	EMM48OUT2FEDG	EMM48OUT2FEDA
2 x FE chassis	600W x 600H x 300D	EMM66OUT2FECG	EMM66OUT2FECA
8 x FD chassis	600W x 800H x 300D	EMM68OUT8FDCG	EMM68OUT8FDCA
MCB 24P chassis + 24P AUX	600W x 600H x 300D	EMM66OUT24P250G	EMM66OUT24P250A
MCB 48P chassis + 24P AUX	600W x 800H x 300D	EMM68OUT48P250G	EMM68OUT48P250A

*Includes Neutral & Earth Links.

*Cabling by switchboard builder.

E630

Components List



CABLING MODULE

CABLING MODULES

Description	Size (mm)	Part No. GREY	Part No. ORANGE
Incl. MP+B/gland	200W x 600H x 300D	EMM26CABG	EMM26CABA
Incl. MP+B/gland	200W x 1400H x 300D	EMM214CABG	EMM214CABA
Incl. MP+B/gland	200W x 2000H x 300D	EMM220CABG	EMM220CABA

EMPTY MODULES

Incl. MP+B/gland+Escut.	400W x 800H x 300D	EMM48EMTG	EMM48EMTA
Incl. MP+B/gland+Escut.	600W x 600H x 300D	EMM66EMTG	EMM66EMTA
Incl. MP+B/gland+Escut.	600W x 800H x 300D	EMM68EMTG	EMM68EMTA



EMPTY MODULES



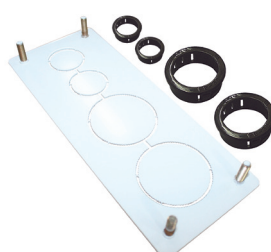
EM2PLNG



EM2GPTG



EMBPI



EMK-GPI

PLINTH - GALVANIZED

Description	Size (mm)	Part No.
Plinth 200mm	200W x 100H x 300D	EM2PLNG
Plinth 600mm	600W x 100H x 300D	EM6PLNG
Plinth 800mm	800W x 100H x 300D	EM8PLNG

GLAND & BLANK PLATES

Description	Size (mm)	Part No. GREY	Part No. ORANGE
Top Gland Plate	200W x 300D	EM2GPTG	EM2GPTA
Top Gland Plate	600W x 300D	EM6GPTG	EM6GPTA
Side Blank Plate (Blank)	228 x 98	EMBPSG	EMBPSA

INTERNAL GLAND & BLANK PLATES

Description	Size (mm)	Part No.
Internal Blank Plate White	216 x 86	EMBPI
Internal knockout gland plate kit White	216 x 86	EMK-GPI

*Optional external aluminium glands.



E630

Locks - Technical Data



E-SWHANDLE



E-TPL10



E66-LTPL08



200-9437-CL001



E-PADLOCKCOVER

HANDLES AND THREE POINT LOCKING

Description	Height	Part No.
COMPONENTS		
Padlockable L Handle		E-LHANDLE
Padlockable Swing Handle		E-SWHANDLE
Three point locking rods	600mm	E-TPL06
	800mm	E-TPL08
	1000mm	E-TPL10
	1200mm	E-TPL12

KITS

Padlockable L Handle including three point locking rods	600mm	E65-LTPL06
	800mm	E65-LTPL08
	1000mm	E65-LTPL10
	1200mm	E65-LTPL12
Padlockable Swing Handle including three point locking rods	600mm	E65-SWTPL06
	800mm	E65-SWTPL08
	1000mm	E65-SWTPL10
	1200mm	E65-SWTPL12

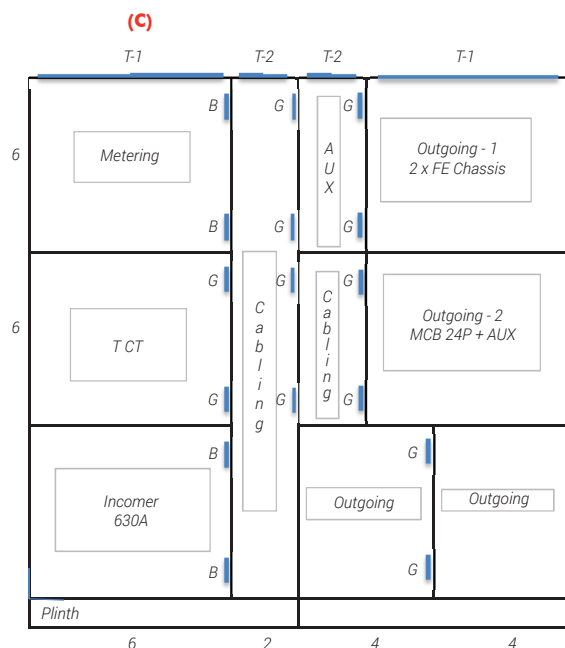
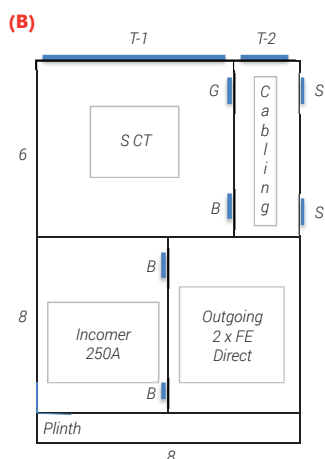
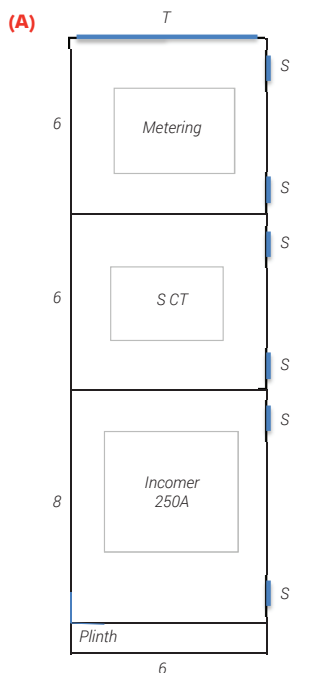
OTHER LOCK OPTIONS

Coin Locks	Unspecified Keylockable	KELS12140
	NSW - PWD E	RL-ELOCK-CL
	WA - 42886	RL-42886-CL
L Handle	VIC - CL001	200-9437-CL001
T Handle	Locking Not Required	THLC12130
	Unspecified Keylockable	THLC12131
	QLD - 92268	T-HANDLE-92268
	VIC - CL001	T-HANDLE-CL001
Swing Handle	NSW - PWD E	RL-ELOCK
Other	Knob Lock	ELS12120
	Plastic Bung	ELS05817
	Replacement IEC style	ELS05775
	Door Padlocking	E-PADLOCKCOVER

TECHNICAL DATA:				
Rated Voltage (V)	415V			
Rated Current (A)	160A	250A	400A	630A
Fault Current (Icc)	50kA			
Duration	Conditional* (TCA No. 103550)			
Rated Frequency (Hz)	50Hz			
Insulation level	2.5kV			
Segregation (AS/NZ3439.1)	3bih			
Applicable Standard	AS/NZ3439.1			
IP Rating	IP43			
Enclosure Material	1.6mm Mild Steel (MS)			
Paint	Powder coated Ripple finish Grey RAL7035 or Orange RAL2000			
Door Locks	Metal IEC locks			
Hinges	Concealed			
Escutcheons	1.5mm MS Powder Coated White. Generally hinged. Tool access.			
Top Gland Plates	1.5mm MS Powder Coated Grey/Orange			
Side Blank Plates	1.5mm MS Powder Coated Grey/Orange			
Bottom Gland Plates	1.5mm MS Powder Coated White			
Mounting Pans	2mm Zinalume			
Incomer Module	Sealable Escutcheon with Padlock hasp to lock Toggle On or Off			
CT Module	Sealable door with schedule card holder			
	3mm Clear poly front barrier			
	2mm Clear poly barrier with glands for Cu busbar/cables			
	250A - 6.35 x 25mm round edge HDHC Copper alloy 110 to AS1567			
Metering Module	400/630A - 30 x 10mm square edge HDHC Copper alloy 110 to AS1567			
	6mm Insulated mounting pan			
	1.5mm Shield plate MS Powder Coated White 3mm optional			
Plinth	3mm MS Galvanized			
Lifting Method	using 30mm Dia. Lifting holes provided in plinth			
* Tested with the Main Incoming breaker: FEN or FGN. (As either of these MCCB's is always installed as Incomer.)				

E630

Sample Quotations



(A) Item description	Size	Qty	Part No.
MODULES			
Incomer Module for FE 160A/250A	600W x 800H x 300D	1	EMM68INCFEA
S CT Module 160A/250A (Exclude incomer cables)	600W x 600H x 300D	1	EMM66SCTA
Metering Module 160A-630A	600W x 600H x 300D	1	EMM66MTRA
GLAND/BLANK PLATES			
Top Gland Plate	600W x 300D	1	EM6GPTA
Side Blank Plate	228 x 98	6	EMBPSA
PLINTH			
Plinth 600mm Galvanized	600W x 100H x 300D	1	EM6PLNG
BREAKERS & ACC.			
GE MCCB 250A		1	FEN37DA250KF
Terminal Shield for FE frame		1	FEJL3
LABOUR			
Labour for Assembling (3 modules) hrs		1.50	

(B) Item description	Size	Qty	Part No.
MODULES			
Incomer Module for FE 160A/250A	400W x 800H x 300D	1	EMM48INCFEA
S CT Module 160A/250A (Exclude incomer cables)	600W x 600H x 300D	1	EMM66SCTG
Cabling Module Incl. MP+B/gland	200W x 600H x 300D	1	EMM26CABG
Outgoing Module 2 x FE direct mounting	400W x 800H x 300D	1	EMM48OUT2FEDG
GLAND/BLANK PLATES			
Top Gland Plate	600W x 300D	1	EM6GPTG
Top Gland Plate	200W x 300D	1	EM2GPTG
Side Blank Plate	228 x 98	2	EMBPSG
Internal Blank Plate White	216 x 86	3	EMBPI
Internal Gland Plate Kit White	216 x 86	1	EMK-GPI
PLINTH			
Plinth 800mm Galvanized	800W x 100H x 300D	1	EM8PLNG
BREAKERS & ACC.			
GE MCCB 250A		1	FEN37DA250KF
GE MCCB 160A		2	FEN37DA160JF
Terminal Shield for FE frame		3	FEJL3
LABOUR			
Labour for Assembling (4 modules) hrs		2.00	

(C) Item description	Size	Qty	Part No.
MODULES			
Incomer Module for FG 400A/630A	600W x 800H x 300D	1	EMM68INCFCG
T CT Module 400A/630A (Exclude incomer Connection kit)	600W x 600H x 300D	1	EMM66TCTG
Metering Module 160A-630A	600W x 600H x 300D	1	EMM66MTRG
Cabling Module Incl. MP+B/gland	200W x 2000H x 300D	1	EMM220CABG
Cabling Module Incl. MP+B/gland	200W x 600H x 300D	1	EMM26CABG
Outgoing Module 24P AUX DIN (Vertical)	200W x 600H x 300D	1	EMM260OUT24PAUXG
Outgoing Module 2 x FE chassis	600W x 600H x 300D	1	EMM66OUT2FECG
Outgoing Module MCB 24P chassis + 24P AUX	600W x 600H x 300D	1	EMM66OUT24P250G
Outgoing Module 2 x FE direct mounting	400W x 800H x 300D	1	EMM48OUT2FEDG
Empty Module Incl. MP+B/gland+Escut.	400W x 800H x 300D	1	EMM48EMTG
GLAND/BLANK PLATES			
Top Gland Plate	600W x 300D	2	EM6GPTG
Top Gland Plate	200W x 300D	2	EM2GPTG
Internal Blank Plate White	216 x 86	4	EMBPI
Internal Gland Plate Kit White	216 x 86	12	EMK-GPI
PLINTH			
Plinth 800mm Galvanized	800W x 100H x 300D	2	EM8PLNG
BREAKERS & ACC.			
GE MCCB 630A		1	FGN37DA630NF
GE MCCB 160A		4	FEN37DA160JF
Terminal Shield for FG frame for spreaders		1	FGJW3
Terminal Shield for FE frame		4	FEJL3
LABOUR			
Labour for Assembling (10 modules) hrs		5.00	

How to ORDER:

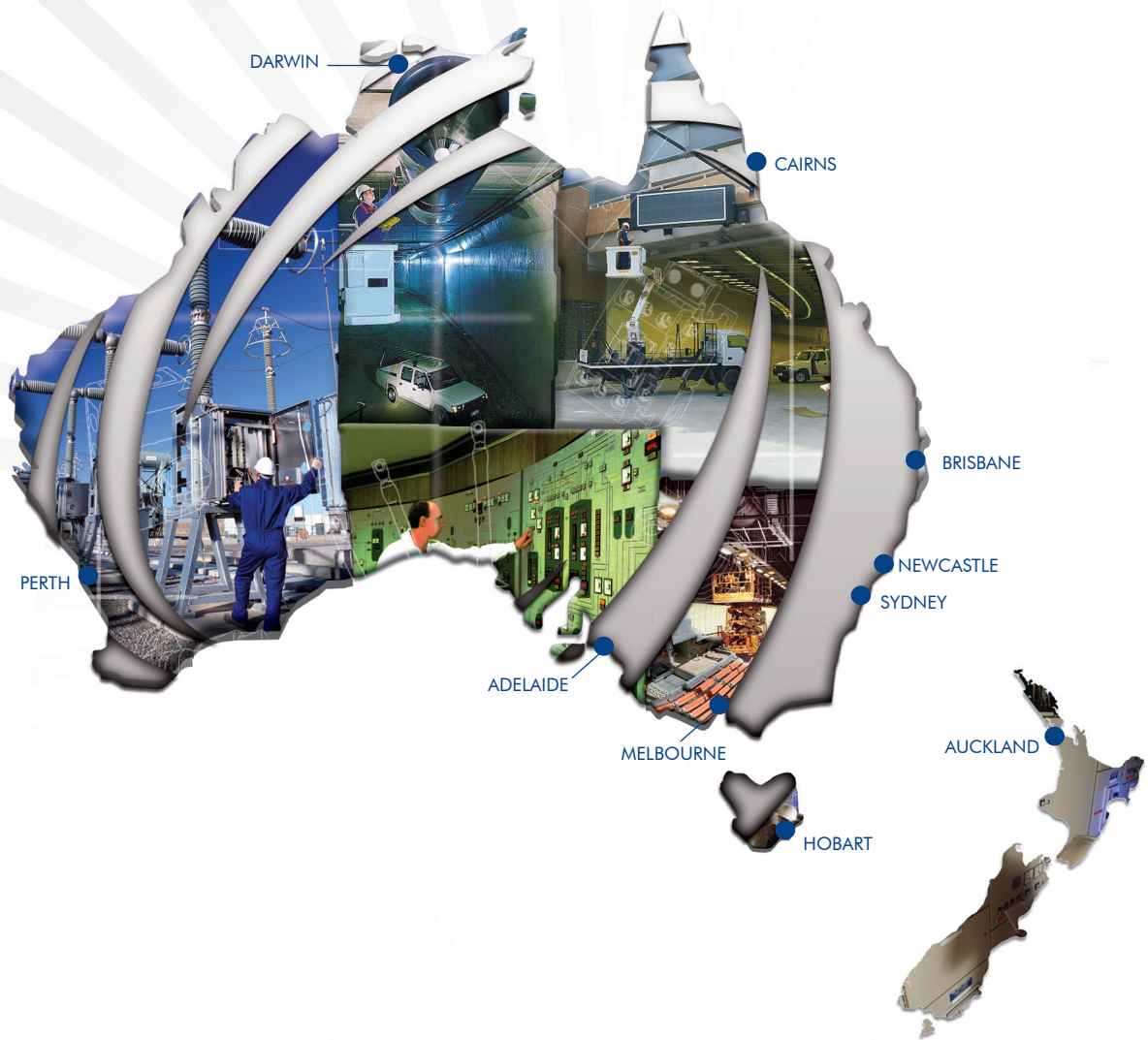
The E630 system has been designed to be supplied in component blocks or Modules to build up a switchboard rated from 160A to 630A.

The more common modules are available with some preassembly.
Or components may be used for custom designs.

Selection Steps:

1. Incoming / CT / Metering and Outgoing Enclosure sizes
2. Plinth sizes to suit
3. Top Gland plates, Side Blank plates and Internal Glands/Blank plate
4. Breakers, Chassis & Equipment





ELLIS



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