

DB Essential Distribution Boards

Custom designed for the demands of Australian industry

DB Essential distribution boards are purpose built for Siemens circuit-breakers and offer a quality light weight solution for high-end commercial and medium duty industrial environments.

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Robust | Flexibility | Compliance | Lightweight



and featuring **SIEMENS** Weidmüller **3**

apsindustrial.com.au/db-essential



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Enclosure by **Exact Ko** and featuring **SIEMENS Weidmüller 3**

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Introducing the 'DB Essential' range of distribution boards from APS Industrial

Following the successful launch of the APS DB Ultimate, we are pleased to release the second range within the 'DB' family, the APS DB Essential.

Consistent throughout the DB family of distribution boards, the newly released DB Essential is custom designed for the demands of Australian industry and purpose built for compatibility with Siemens circuit breakers.

The DB Essential has been developed as a quality light-weight distribution board for high end commercial and medium duty industrial environments.

The enclosure by KATKO is a fully welded construction and meets the highest IK rating against external mechanical impacts whilst maintaining an IP55 ingress rating.

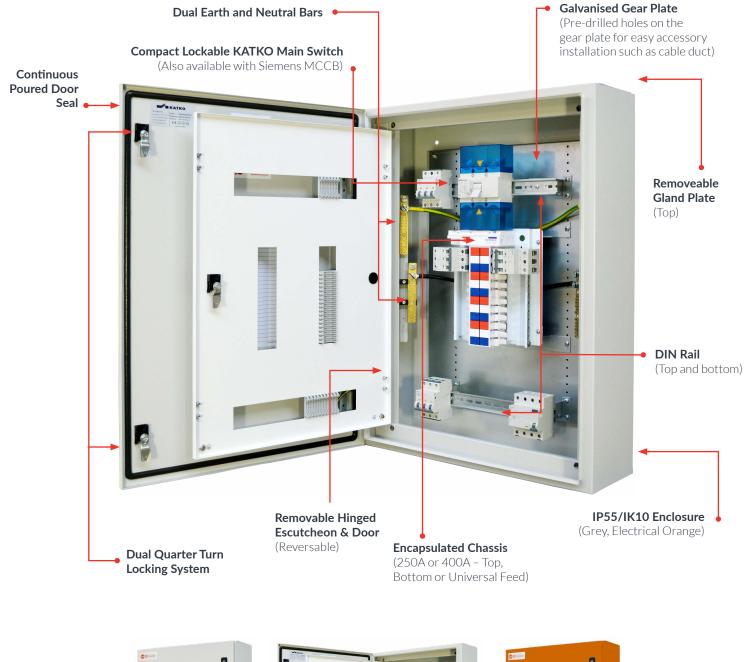
Together these ratings make this range of distribution boards ideal for indoor and outdoor applications typically seen in office, retail, hotel warehouse and distribution applications.

While the DB Essential does not offer a removable gear tray (as featured in the DB Ultimate), Like the Ultimate, the DB Essential, through careful design considerations, offers significant flexibility in equipment options without too much customisation.





Features







Feature Overview



IP RATING / IK RATING	IP55/IK10
WIDTH	600mm
DEPTH (INCLUDING DOOR)	210mm
MILD STEEL COLOURS	RAL 7035 Grey, Electrical Orange
MATERIAL	1.2mm Mild Steel
MCB TYPE	Siemens
MCB CHASSIS TYPE	Encapsulated
MCB CHASSIS RATING	250A/400A
MCB CHASSIS - TOP, BOTTOM OR UNIVERSAL FEED	0
MCB POLE CAPACITY	18 - 72
SPLIT CHASSIS OPTION	0
SPARE HORIZONTAL DIN SPACES (TOP & BOTTOM)	12 & 18
DIN RAIL (TOP & BOTTOM)	▲
ISOLATOR MAIN SWITCH	KATKO 250A
MCCB MAIN SWITCH	0
MCCB TYPE	Siemens
DOOR HINGED & FIELD REVERSIBLE	▲
ESCUTCHEON HINGED & FIELD REVESIBLE	
WHITE ESCUTCHEON	▲
GALVANISED GEAR PLATE	▲
QUARTER TURN LOCK	
SEMI FLUSH SWING DOOR HANDLE	0
DOOR LOCK CL001	0
DOOR LOCK 92268	0
DOOR LOCK NON-LOCKING	0
PWD LOCK E-LOCK	0
PADLOCKABLE	0
EARTH AND NEUTRAL BARS (LINKED)	Both Sides
CABLE DUCTING BOTH SIDES OF CHASSIS	0
SPECIAL COLOURS	0
RAINHOOD COVER	0
PLINTH	0
FLUSH MOUNTING KIT	0
WALL MOUNTING	▲
REMOVABLE GLAND-PLATE (TOP)	
LEGEND CARD INSIDE FRONT DOOR	▲
GLAND-PLATES BRASS/ALUMINIUM	0
ACCESSORY BOARDS (600MM)	0
CAD BLOCKS AVAILABLE	
OTHER VARIATIONS ON REQUEST	0

▲ Standard

O Optional

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DB Selection Guide

Follow this 6-step process to build the perfect distribution board solution





DB Configuration Tool

Simply visit apsindustrial.com.au/dbconfigurator to easily customise and submit your pricing enquiry in just a few clicks!



Fields marked with an * are required							
1. DETAILS 2. DB CONFIGURATOR	3. DB OPTIONS MCB / RCB	DSELECTOR					
Business Name *							
Contact Name *							
Phone *							
Email*			1. DETAILS 2. DB	CONFIGURATOR	3. DB OPTIONS	MCB / RCBO SELECTOR	
Project			DB Type *		DB Colour *	DB Material *	Chassis Poles *
			Ultimate		 Grey (RAL 7035) 	 Mild Steel 	 18 Pole
DB Name / ID			 Essential 		OrangeOther		24 Pole
DB Name / ID					◎ Other		30 Pole
							 36 Pole 42 Pole
Quantity *							 42 Pole 48 Pole
0							© 60 Pole
							 72 Pole
			Chassis Amps*		Incomer Feed Type *	Enclosure Hinge Side *	Chassis Type *
			 250A 1024 		• Тор	● Left	Encapsulated
			© 400A		Bottom	Right	
			Main Switch Type*		Main Switch Amps*	Chassis Configurator *	
			 Load Break Isolator 		 250A 	3 Phase (R,W,B)	
1. DETAILS 2. DB CONFIGURATOR	3. DB OPTIONS MCB/RCB	O SELECTOR				③ 3 Phase + Neutral (R,W,B,N)	
						Single Phase + Neutral (RN, WN, BN)	
Lighting Control		Contactors / Relays				DC (RBk, RBk, RBk)	
Emergency Lighting Kit - 25A	Number of Circuits	25A, 2 Pole	e Qty			Custom (Split)	
Emergency Lighting Kit - 40A		25A, 4 Pole	Ohr				
Photo Electric Lighting Kit	Number of Circuits	40A, 2 Pole	e Qty				
		40A, 4 Pole	e Qty				
Metering (KWH)	Metering (AMPs)	Metering Connection		ing Communications		ads 1	3
 PAC 2200 (DIN) PAC 3200 (96mm x 96mm Panel) 	50A75A	 Current Transformer, 5A Direct 	 Eth Pro 	ernet Modbus fibus			
 - 7.56 0200 (20000 X 70000 P8080) 	© 100A	e preci		dbus RTU			
	© 150A		© N/A			Thank you for submitting y	our enquiry.
	© 200A					One of our local team will soon be in contact to fu	irther discuss your requirements.
	© 250A						
						In the meantime, if you have any question	ns please contact us here
Timers	Fuses	Surge Protection					
 1 Channel - 24/7 2 Channel - 24/7 	1 Phase Fuse Holder 32A 2 Phase Fuse Holder 32A	 280V/40kA 3 Phase 280V/40kA 3 Phase + No 	. steel			REQUEST ANOTHER DISTRIBU	HON BOARD
2 Channel - 24/7 4 Channel - Yearly	 3 Phase Fuse Holder 32A 1 Phase Fuse Holder 100A 	 280V/40kA 3 Phase + Ne 280V/40Ka Single Phase 					
	 3 Phase Fuse Holder 100A 						
						an at a decated at a second	/
Accessory Box						apsindustrial.com.au	/apconngurator
Size	Fitting	Escutcheon					
380 High	© Тор	With Escutcheon					
600 High	Bottom	Without Escutcheon					
	Supplied Loose						



Chassis

Determine how many poles your distribution board will require and then select from the custom built range of chassis below.

POLES	DESCRIPTION	PART NUMBER

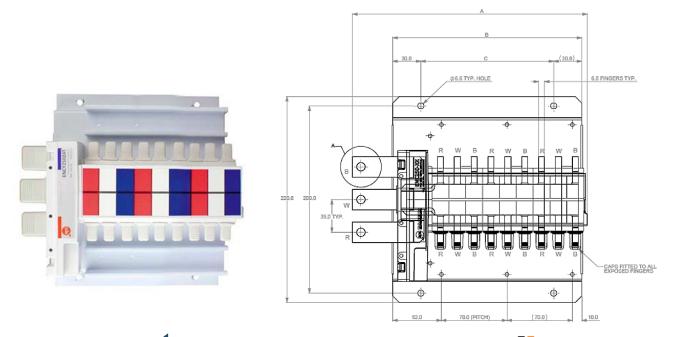
Encapsulated - 250A MCB chassis (rated at 25kA for 0.1sec & 10kA for 1sec and suitable for use with 5SY MCBS)

18	18 Pole, 250 Amp, Top Feed	ENCY25018T
24	24 Pole, 250 Amp, Top Feed	ENCY25024T
30	30 Pole, 250 Amp, Top Feed	ENCY25030T
36	36 Pole, 250 Amp, Top Feed	ENCY25036T
42	42 Pole, 250 Amp, Top Feed	ENCY25042T
48	48 Pole, 250 Amp, Top Feed	ENCY25048T
60	60 Pole, 250 Amp, Top Feed	ENCY25060T
72	72 Pole, 250 Amp, Top Feed	ENCY25072T



Note: 400 A Chassis available on request. Change "T" to "U" for UNI or "B" for Bottom Feed.

DIMENSIONAL DETAILS								
			DIMENSION					
PART NUMBER	NO. OF POLES	А	В	с	D			
ENCY25018T	18	251	202	142	160			
ENCY25024T	24	305	256	196	214			
ENCY25030T	30	359	310	250	268			
ENCY25036T	36	413	364	304	322			
ENCY25042T	42	467	418	358	376			
ENCY25048T	48	521	472	412	430			
ENCY25060T	60	629	580	520	538			
ENCY25072T	72	737	688	628	646			





Main Switches

Standard - KATKO Main Switch

The leading range of KATKO Load Break Switches feature as standard in all DB distribution boards promising the highest performance and reliability.



Compact size

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- Switch technology by means of silver contacts ensures a
- Long life expectancy and safe use in demanding conditions
- 3-Pole and 4-Pole
- Available with terminal covers and phase barriers (LS/VS)

	AC 04	400 V	46.00	400 V	A.C. 00	400 V		
ТҮРЕ	AC-21	415 V	AC-22	415 V	AC-23	415 V	EAN-CODE	WEIGHT KG
	IE	/ A	IE	/ A	IE / A	P / KW	6419410	
EVA3250LS/VS	250 A		250 A		200 A	90 kW	203321	0.9

Optional - Siemens MCCB

3VA12/13 MCCB - TM240 (3 Pole, 36kA at 415V) Line protection - Standard thermal-magnetic trip unit (TM240 - ATAM)*



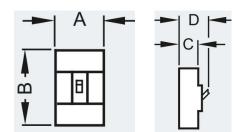
- Modular, well-conceived, and highly variable system
- High system availability thanks to an excellent selectivity concept
- Integrated measured value acquisition
- Simple integration into higher-level energy management and automation systems T
- Comprehensive range of accessories for flexible function expansions
- Minimal space requirements thanks to a highly compact design

FRAME SIZE (FS)	In (A) RATED	lr (A) SETTING	li (A) SETTING	PART NUMBER
	160A	112 - 160A	800-1600A	3VA1216-4EF32-0AA0
2	250A	175 - 250A	1250-2500A	3VA1225-4EF32-0AA0
	250A	-		3VA1225-1AA32-0AA0**
	400A	280-400A	2000-4000A	3VA1340-4EF32-0AA0
3	400A	-		3VA1340-1AA32-0AA0**

3VA1 MCCBs Dimensions					
A (3P)	A (4P)	В	с	D	
105mm	140mm	158mm	70mm	88mm	

Note:

* TM240 (Line Protection) = Adjustable Thermal (Ir), Adjustable Magnetic (Ii) - ATAM (LI) ** Non-auto





Enclosure Sizes

High quality light-weight distribution board for high end commercial and medium duty industrial environments.



- IP55 Protection Rating
- Available in RAL 7035 Grey and Electrical Orange
- 1.2mm Mild Steel
- Encapsulated MCB Chassis
- 18-72 Pole
- CAD Blocks Available
- Industry standard quarter turn locks
- Reversible White Escutcheon and Hinged Door
- Isolating Main Switch or MCCB Option
- In-feed Earth and Neutral Bars

MAIN SWITCH	MCB POLE CAPACITY	ENCLOSURE WIDTH AND DEPTH	ENCLOSURE HEIGHT	PART NUMBER
	18			ESS18MG250EKT
	24	600mm x 210mm	800mm	ESS24MG250EKT
	30			ESS30MG250EKT
KATKO 250A Isolating Main Switch	36		1000mm	ESS36MG250EKT
(Encapsulated Chassis)	42			ESS42MG250EKT
(Encapsulated Chassis)	48			ESS48MG250EKT
	60		1200mm	ESS60MG250EKT
	72		120000	ESS72MG250EKT

Part Number Configuration Guide

The below table has been prepared as your guide to configuring the right part number for your individual enclosure requirements. As an example, we have used the part number: ESS18MG250EKT

There are 2 inputs that you are able to substitute:

- 1. Replace "MG" with "MO" for Electrical Orange
- 2. Replace "K" with "CB" for MCCB Main Switch

ESS	18		MG	250	E	к	Т
TYPE	NUMBER OF PC	DLES	COLOUR	MAIN SWITCH A	CHASSIS TYPE	SWITCH TYPE	CHASSIS FEED
ESS-Essential	18 - 18 Poles	42 - 42 Poles	MG - RAL 7035 Grey	250 - 250 A	E - Encapsulated	К - КАТКО	T - Top
	24 - 24 Poles	48 - 48 Poles	MO - Electric Orange	400 - 400 A		CB - Siemens MCCB	B - Bottom
	30 - 30 Poles	60 - 60 Poles					U - Universal
	36 - 36 Poles	72 - 72 Poles					

Commercial | Medium Duty Industrial











Office Buildings



Accessories

To complete your customised distribution board solution, choose from a full range of accessories that further unlock intelligence and performance capability.

CT Blocks



The 3-phase 7KT12 current transformer can be used in distribution boards according to DIN 43880. The measuring leads
are routed vertically through the standard mounting rail.

DESCRIPTION	PART NUMBER
Current Transformer AC 3X150/5A, Depth=70Mm	7KT1202

7KM PAC2200 measuring devices (Integrated web server)

The 7KM PAC measuring devices precisely and reliably measure the energy values for infeeds, outgoing feeders or individual loads. They not only provide important information about the electrical power distribution but also key measured values for assessing the system states and power quality.



CONTROL VOLTAGE	RATED CURRENT IN (A)	VOLTAGE RANGE	MOUNTING	COMMUNICATIONS	PART NUMBER
Self Powered	CT/1A or /5A	480/277 V 3 AC, 50/60 Hz	DIN Rail Mount with display	Modbus TCP	7KM2200-2EA30-1EA1
Self Powered	Direct up to 65A	480/277 V 3 AC, 50/60 Hz	DIN Rail Mount with display	Modbus TCP	7KM2200-2EA40-1EA1

Surge Diverters

Surge protection is a critical component of this safeguard and by investing in surge protection you create operational reliability.



DESCRIPTION	PART NUMBER
VPU II 3 280V/40kA Surge Arrester 3 Phase	1352700000
VPU II 3+IR 280V/40kA Surge Arrester 3 Phase	1352670000
VPU II I+IR 280V/40kA Surge Arrester 3 Phase	1352640000

Fuse Systems

As a pioneer of fuse systems, Siemens offer you the complete range of devices for protecting cables and electrical devices and systems in case of overload and short-circuit.

32A Fuse Holders

32A FUSE HOLDERS, 10X38MM	PHASES	PART NUMBER
3NW7013	1	3NW7211
3NW7033	3	3NW7231
3NW7063	3+N	3NW7261

Cylindrical Fuses Class gG

SIZE	RATED CURRENT	PART NUMBER	SIZE	RATED CURRENT	PART NUMBER
10x38mm	1A	3NW60111	22x58mm	6A	3NW62051
10x38mm	2A	3NW60021	22x58mm	20A	3NW62071
10x38mm	4A	3NW60041	22x58mm	25A	3NW62101
10x38mm	6A	3NW60011	22x58mm	32A	3NW62121
10x38mm	10A	3NW60031	22x58mm	40A	3NW62171
10x38mm	16A	3NW60051	22x58mm	50A	3NW62201
10x38mm	20A	3NW60071	22x58mm	63A	3NW62221
10x38mm	35A	3NW60101	22x58mm	80A	3NW62241
10x38mm	32A	3NW60121	22x58mm	100A	3NW62301

Emergency Lighting Test Kits

The APS Industrial range of emergency light test kits fully complies to standards requirements. Both enclosed and switchboard mount options are available and the highest quality components are used to ensure reliable operation.

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RATED CURRENT	DESCRIPTION	PART NUMBER
25A	Test/Reset, Timer & 4NC Contactor	SIEEMLTK25
40A	Test/Reset, Timer & 4NC Contactor	SIEEMLTK40



Miniature Circuit Breakers

The DB range of distribution boards have been purpose built to house the leading Siemens range of MCBs.

Suitable for use on chassis

RATED CURRENT	PART NUMBER	PART NUMBER
SINGLE	POLE, 6KA	SINGLE POLE, 10KA
1A	5SY6101-7CC	5SY4101-7CC
2A	5SY6102-7CC	5SY4102-7CC
4A	5SY6104-7CC	5SY4104-7CC
6A	5SY6106-7CC	5SY4106-7CC
10A	5SY6110-7CC	5SY4110-7CC
16A	5SY6116-7CC	5SY4116-7CC
20A	5SY6120-7CC	5SY4120-7CC
25A	5SY6125-7CC	5SY4125-7CC
32A	5SY6132-7CC	5SY4132-7CC
40A	5SY6140-7CC	5SY4140-7CC
50A	5SY6150-7CC	5SY4150-7CC
63A	5SY6163-7CC	5SY4163-7CC
RATED	CURRENT	27MM PITCH **
	80A	5SP4180-7
-	100A	5SP4191-7
	125A	5SP4192-7
DOUBL	E POLE, 6KA	DOUBLE POLE, 10KA
1A	5SY6201-7CC	5SY4201-7CC
2A	5SY6202-7CC	5SY4202-7CC
4A	5SY6204-7CC	5SY4204-7CC
6A	5SY6206-7CC	5SY4206-7CC
10A	5SY6210-7CC	5SY4210-7CC
16A	5SY6216-7CC	5SY4216-7CC
20A	5SY6220-7CC	5SY4220-7CC
25A	5SY6225-7CC	5SY4225-7CC
32A	5SY6232-7CC	5SY4232-7CC
40A	5SY6240-7CC	5SY4240-7CC
50A	5SY6250-7CC	5SY4250-7CC
63A	5SY6263-7CC	5SY4263-7CC
TRIPLE	POLE, 6KA	TRIPLE POLE, 10KA
1A	5SY6301-7CC	5SY4301-7CC
2A	5SY6302-7CC	5SY4302-7CC
4A	5SY6304-7CC	5SY4304-7CC
6A	5SY6306-7CC	5SY4306-7CC
10A	5SY6310-7CC	5SY4310-7CC
16A	5SY6316-7CC	5SY4316-7CC
20A	5SY6320-7CC	5SY4320-7CC
25A	5SY6325-7CC	5SY4325-7CC
32A	5SY6332-7CC	55Y4332-7CC
40A	5\$Y6340-7CC	55Y4340-7CC
50A	5\$Y6350-7CC	55143407CC
63A	55Y6363-7CC	5314350-7CC
	-	55Y4380-7CC
80A	-	J 3514360-7CC
	CURRENT	27MM PITCH**
	80A	5SP4380-7
,	100A	5SP4391-7









Note: ** Available with Hybrid Chassis only.

Featuring **SIEMENS** MCBs

aps

5SP4392-7

125A



RCBOs

The DB range of distribution boards have been purpose built to house the leading Siemens range of RCBOs.

Single Pole RCBO, 10KA Type A 30mA (Long Body suitable for Standard Chassis Mount with 5SY MCB)

RATED CURRENT IN (A)	DESCRIPTION	PART NUMBER
6A	RCBO, Single Phase, 1 Pole, 10kA, 600mm Tail	5SU9304-7KK06
10A	RCBO, Single Phase, 1 Pole	5SU9304-7KK10
16A	RCBO, Single Phase, 1 Pole	5SU9304-7KK16
20A	RCBO, Single Phase, 1 Pole	5SU9304-7KK20
25A	RCBO, Single Phase, 1 Pole	5SU9304-7KK25
32A	RCBO, Single Phase, 1 Pole	5SU9304-7KK32
40A	RCBO, Single Phase, 1 Pole	5SU9304-7KK40

Single Phase RCBO, 6KA Type A 30mA (2 modules wide DIN Rail Mount) **



6A	RCBO, Single Phase, 2 Pole	5SU93547KK06
10A	RCBO, Single Phase, 2 Pole	5SU93547KK10
16A	RCBO, Single Phase, 2 Pole	5SU93547KK16
20A	RCBO, Single Phase, 2 Pole	5SU93547KK20
25A	RCBO, Single Phase, 2 Pole	5SU93547KK25
32A	RCBO, Single Phase, 2 Pole	5SU93547KK32
40A	RCBO, Single Phase, 2 Pole	5SU93547KK40

Note: ** Requires custom chassis.

Single Phase RCBO, 10kA Type A (2 modules wide DIN Rail Mount)**

6A	RCBO, Single Phase, 2 Pole	5SU93547KK06
10A	RCBO, Single Phase, 2 Pole	5SU93547KK10
16A	RCBO, Single Phase, 2 Pole	5SU93547KK16
20A	RCBO, Single Phase, 2 Pole	5SU93547KK20
25A	RCBO, Single Phase, 2 Pole	5SU93547KK25
32A	RCBO, Single Phase, 2 Pole	5SU93547KK32
40A	RCBO, Single Phase, 2 Pole	5SU93547KK40

Note: These can not have auxiliaries mounted. ** Requires custom chassis.

RCDS Type A 30mA (DIN Rail Mount)



1	25A	Type A 25A 1+N-POLE 30MA 230V 2MW	5SV33126
	40A	Type A 40A 1+N-POLE 30MA 230V 2MW	5SV33146
	63A	Type A 63A 1+N-POLE 30MA 230V 2MW	5SV33166
-	40A	Type A 40A 3+N-POLE 30MA 400V 4MW	5SV33446
	80A	Type A 80A 3+N-POLE 30MA 400V 4MW	5SV33476

Note: These can not have auxiliaries mounted.

Featuring **SIEMENS** RCBOs

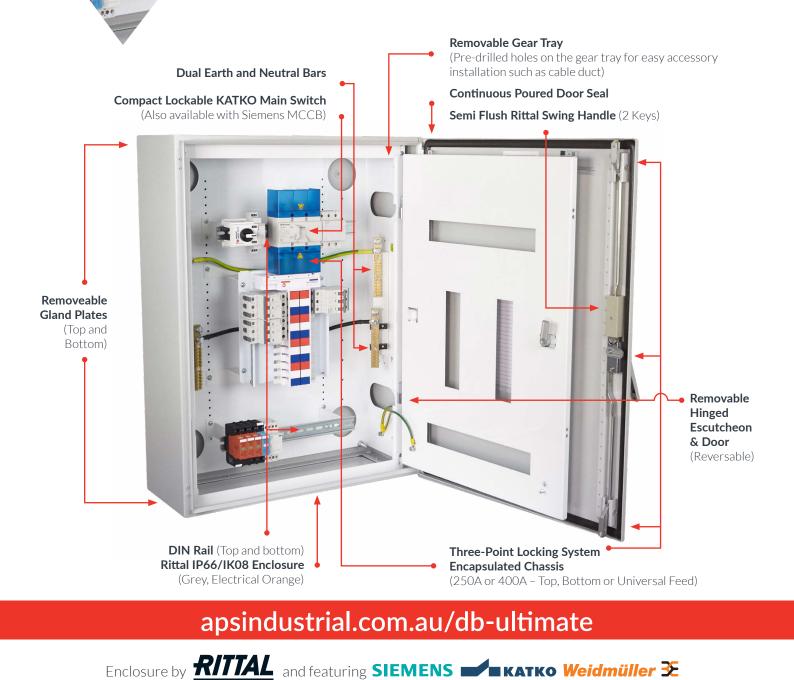


DB Ultimate Distribution Boards Custom designed for the demands

of Australian industry

DB Ultimate distribution boards are purpose-built for Siemens circuit breakers and feature an enclosure by the world's leading supplier of innovative enclosure technology, Rittal.

Quality | Flexibility | Compliance | Intelligence



14



Unique One-Piece Gear Tray Assembly

In a move that will revolutionise distribution board assembly and installation, the 'DB Ultimate', within the 'DB family' of distribution boards features a unique removable one-piece gear tray assembly that enables full assembly and wiring independent of the enclosure itself. This exciting feature provides unparalleled flexibility in design, assembly, installation, commissioning and future retro-fitting.



1. Enclosure Select your enclosure size and material based on application/ installation requirements and model features.



2. Gear Tray Each APS DB Ulimate comes with a high quality gear tray that can be removed from and inserted into the enclosure.



3. Assemble Gear Tray Assemble gear tray with required components independent of the enclosure for increased time savings.



4. Insert Assembled Gear Tray into the enclosure This enables building of DBs independent of the enclosure itself for added flexibility.





OUR LOCATIONS

National footprint with strategic local stockholdings.

APS Industrial is headquartered in Melbourne and in addition has a national network of offices in Adelaide, Perth, Sydney, Brisbane and Tasmania supported by strategic local stockholdings and expert technical and application knowledge.

apsindustrial.com.au

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