

**Conquering Challenges. Pioneering Solutions.
Empowering Smart LV Switchgear Excellence.**



**Unleash the Power of Smart LV Switchgear:
Safety, Reliability, Sustainability, Efficiency!**



desystems.org

DIGITAL
ELECTRIC SYSTEMS

WHO WE ARE

Digital Electric Systems FZE: Your Premier Destination for Cutting-Edge LV Switchgear Solutions. Strategically located in Sharjah Airport International Free Zone (SAIF Zone), Sharjah, UAE, our company stands as a pioneering force in the industry.

Digital Electric Systems FZE has expanded its operations, now offering a comprehensive range of LV Switchgear solutions. Our products are meticulously designed and type-tested to comply with the latest international standards, including IEC 61439, BSEN 61439, IEC 61641, and more. To further ensure the quality and reliability of our solutions, our products are certified by DEKRA Netherlands, an internationally accredited certification body.

With a strong foundation in manufacturing electrical switchgear components, busbar assembly units, wiring accessories, and more, we bring over two decades of expertise to the Middle East region. Our commitment to excellence has earned us a trusted reputation as a supplier of core switchgear components to the manufacturing fraternity.

At Digital Electric Systems, we have redefined excellence, delivering top-notch LV switchgear solutions that prioritize safety, reliability, sustainability, and efficiency. Our unwavering dedication to quality and innovation solidifies our position as an industry leader.

As your trusted partner, we are committed to surpassing expectations and delivering tailored solutions that address your unique requirements. Through strategic collaborations with renowned suppliers and advanced manufacturing techniques, we ensure that our products meet the highest standards of performance and reliability.

MISSION

Provide turnkey solutions in the LV electrical switchgear industry in the Middle East with strong focus on delivering the best, cost-effective products and solutions catering to the needs of our customers.



VISION

Become one of the leading supplier and solutions provider for LV switchgear systems in the Middle East.

OUR INDUSTRIAL SETUP



Digital Electric Systems FZE: A Visionary in LV Switchgear Solutions. Our company has emerged as a dynamic player in the industry, driven by a passion for excellence and innovation.

Nestled within the vibrant landscape of SAIF Zone, our establishment boasts a state-of-the-art facility spanning 600 square meters. Our compact yet highly efficient workspace has been meticulously designed to accommodate our growing operations and ensure optimal productivity.

With a firm focus on delivering exceptional LV switchgear solutions, we continuously strive to redefine industry standards. Our unwavering commitment to quality, safety, reliability, and efficiency sets us apart as a trusted partner in the electrical industry.

As we embark on this exciting journey, we envision a future of endless possibilities. With strategic planning and a steadfast commitment to growth, we are dedicated to expanding our capabilities and exploring new horizons in LV switchgear technology.

Stay tuned as we unveil our upcoming advancements, including cutting-edge manufacturing processes and innovative techniques that will enhance our product offerings. By harnessing the latest advancements, we aim to solidify our position as a leader in the field, delivering excellence to our valued customers.

QUALITY MANAGEMENT SYSTEM

Digital Electric Systems FZE is committed to quality, both of our products and in our workplace. We aim for the safe and efficient production of our products by adhering to strict Goof Manufacturing Practices such as 5S program to safeguard quality and supply of our products. We have a Quality Management System in place that accredited to ISO 9001, ISO 14001, and OHSAS ISO 45001 certification. To ensure that we meet our responsibilities and obligations to our customers, our people, our partners, our suppliers and to our shareholders we are committed to the quality objectives defined in our Quality Policy.



OFFER PORTFOLIO

Digital Electric Systems FZE offer portfolio includes complete LV Switchgear from PAN Assemblies to Sub main distribution board that are suited for multi-user Market segments – Buildings (C&R), Infrastructure (Airports, STP, DCP), Industries, Utilities, etc. Each of the solutions are designed per latest international standards, particularly IEC 61439. Solutions up to 2500A have already undergone type tests as per IEC 61439-1 & 2. Some of the solutions included in our portfolio are as listed below:

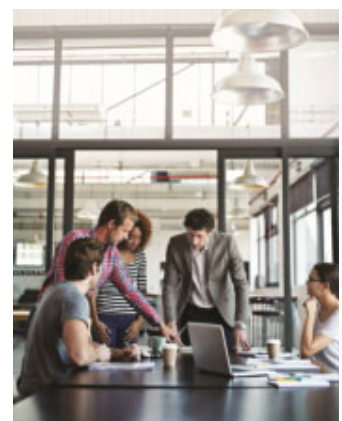
• Final Distribution Boards (DBs) 125A, 250A	⇒	Form-2B, IP41, Icw=25kA 0.5s, Ue=400V, Ui=500V, Uimp=6kV, Compliant to IEC 61439-1,-2,
• Sub Main Distribution Boards (SMDBs) upto 800A	⇒	Form-2B, IP54, Icw=50kA 1s, upto 690V, Compliant to IEC 61439-1,-2,
• PAN Assembly Solutions (DBs & SMDBs) upto 800A	⇒	Icw=17kA 0.25s for 125A, Icw=25kA 0.5s for 250A DB, Icw=36kA 1s for 250A, Icw=42kA 1s for 400A, Icw=50kA 1s for 630A, Icw=50kA 1s for 800A, Compliant to IEC 61439-1,-2,
• Metal Enclosures (Wall Mounting, Wall Mounting SS, Floor Standing, Ex - Enclosures)	⇒	IP55 for Wall Mounting, Floor Standing, Ex-Enclosures, IP66 for Wall Mounting SS, Compliant to IEC 61439-1,-2,



In addition to complete LV Switchgear solutions, **Digital Electric Systems FZE** also offers Standard Pre-assembled Busbar Pan Assemblies for SMDBs and DBs that are type tested as per IEC 61439 standards. Such Pan assemblies can be utilized by Panel builders to incorporate in their panel systems that offers them a technically superior and cost-effective solution that accommodate MCBs / MCCBs from various reputed manufacturers.

DESIGN CAPABILITIES

Digital Electric Systems FZE is equipped with a qualified and experienced Design team who are abreast with international standards, local utility regulations (ADD, DEWA, SEWA, FEWA, Kahramaa, EDD Bahrain, MEW Oman, MEW Kuwait, etc) and emerging technological trends. By staying at the forefront of industry developments, our Design team delivers tailored LV switchgear solutions that meet evolving customer needs. With cutting-edge tools and unwavering innovation, we set the industry standard for design excellence.



- Estimation & Design of LV Switchgear upto 800A
- Drawings – GA, SLD, Schematics as per Type tested configurations, local regulations, IEC standards, project specifications, etc
- Compliance statements, Technical Submittals
- Technical Support to customers
- Standardization of Assembly Methods
- Standardization of Busbar fabrication, Wiring harness
- Installation, Operation & Maintenance documentation
- Feasibility & Design for Onsite modifications, Upgrades, Extensions, etc.



LEAN MANUFACTURING CONCEPT – 5S

In pursuit of its journey towards continuous improvement, **Digital Electric Systems FZE** has adopted the **5S** Lean Manufacturing concept with an organizational approach that is simple and visual, based on tidiness and clearness in order to maintain a clean and high-performance workplace.

The **5S** stages applied are: **S**ort → **S**et in Order → **S**hine → **S**tandardize → **S**ustain

MANUFACTURING AND ASSEMBLY

At **Digital Electric Systems FZE**, we are equipped with advanced machinery that ensures precision in busbar fabrication, including cutting, punching, and bending processes. Our state-of-the-art facilities also facilitate sheet metal punching for various components, such as meters and pilot assemblies.

With our cutting-edge facilities and expertise, we strive to set new industry standards for excellence. Our advanced machinery enables us to meet the highest levels of quality, safety, and reliability in our products. From busbar fabrication to sheet metal punching, we utilize innovative technologies to ensure that our solutions meet and exceed the expectations of our valued customers. At Digital Electric Systems FZE, we are dedicated to providing top-quality LV switchgear solutions that empower our customers and drive their success.



Digital Electric Systems FZE is one of the few LV Switchgear manufacturers in the region equipped with a dedicated **ASSEMBLY LINE** to assemble Busbar Pan Assemblies for SMDBs and DBs and for complete assembly of DB's. The Assembly line incorporates Pneumatic pre-torqued tools to ensure each step of the assembly process is carried out with precision and

QUALITY CONTROL, INSPECTION AND TESTING

Digital Electric Systems FZE adopts strict Quality Control procedures to ensure each LV Switchgear assembly is in line with the type tested configuration. Routine Tests are carried out on every assembly in accordance with IEC 61439-1, 2 standards, local utility regulations and project specifications.



Routine verification is intended to detect faults in materials and workmanship and to ascertain proper functioning of the manufactured ASSEMBLY. The adjacent Table lists the Routine Tests as specified in IEC 61439-1 that are carried out on every ASSEMBLY.

Some of the calibrated test equipment used by Digital Electric Systems FZE:

- HV Test Kit – upto 5kV
- Megger
- Insulation Tester
- Torque Wrench
- Paint thickness gauge



S.No	Clause	Description	Details / verification to be done																								
1	11.2	Degree of protection of enclosures	Visual inspection																								
2	11.3	Clearances & Creepage distances	<p>The Clearance and Creepage distances shall be verified to be minimum as specified in the tables below:</p> <p>Visual inspection – Clearance</p> <table><tr><th>Panel</th><th>Impulse Withstand Voltage, Uimp</th><th>Minimum Clearance</th></tr><tr><td>MDB</td><td>12 kV</td><td>14.0 mm</td></tr><tr><td>SMDB, MCC</td><td>8 kV</td><td>8.0 mm</td></tr><tr><td>DB</td><td>6 kV</td><td>5.5 mm</td></tr></table> <p>Visual inspection – Creepage (Pollution degree 3, Material Group IIIa)</p> <table><tr><th>Panel</th><th>Insulation Voltage, Ui</th><th>Minimum Creepage</th></tr><tr><td>MDB</td><td>1000 V</td><td>16.0 mm</td></tr><tr><td>SMDB, MCC</td><td>690 V</td><td>10.0 mm</td></tr><tr><td>DB</td><td>690 V</td><td>10.0 mm</td></tr></table>	Panel	Impulse Withstand Voltage, Uimp	Minimum Clearance	MDB	12 kV	14.0 mm	SMDB, MCC	8 kV	8.0 mm	DB	6 kV	5.5 mm	Panel	Insulation Voltage, Ui	Minimum Creepage	MDB	1000 V	16.0 mm	SMDB, MCC	690 V	10.0 mm	DB	690 V	10.0 mm
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DB	690 V	10.0 mm																									
3	11.4	Protection against electric shock and integrity of protective circuits	Visual Inspection																								
4	11.5	Incorporation of built-in components	Visual Inspection The installation and identification of built-in components shall be in accordance with manufacturer's instructions.																								
5	11.6	Internal electrical circuits and connections	The connections especially screwed and bolted connections, shall be checked for correct tightness on a random basis.																								
6	11.7	Terminals for external conductors	The number, type and identification of terminals shall be checked in accordance with manufacturing instructions.																								
7	11.8	Mechanical Operation	The effectiveness of mechanical actuating elements, interlocks and locks including those associated with removable parts shall be checked.																								
8	11.9	Dielectric Properties	Power Frequency Withstand Test (H.V. Test) Main Circuits – 2.2kV for 1s ... Ph-Ph, Ph-N, Ph-E, N-E Megger Test using a Measuring device at a Voltage of 500V DC. Minimum req for Insulation resistance is 1000 Ohm per Volt. With a 500V DC test kit, Min IR value = 0.5 Mega Ohms																								
9	11.1	Wiring, Operational Performance and Function	Function Test at Rated Operational Voltage																								

TYPE TESTED SOLUTIONS

Digital Electric Systems FZE's entire range of LV Switchgear solutions are suitable with all major LV Switchgear components manufacturers, and are designed as per latest international standards IEC 61439-1, -2, BSEN 61439-1, -2. All Type tests were carried out at 50degC ambient and were tested & certified by DEKRA.

DB

- Type tested as per IEC 61439-1, -2 -3,
- 250A Busbar with MCCB Incomer, Icw=25kA 0.5s
- 125A Split Busbar, Single Vertical Busbar, Icw=17kA 0.25s
- 100A Single Phase Busbar, 10kA rated
- Form-2B, IP41, 50degC, RAL 7035 (other colors available upon request)
- 1.2mm thick EGI sheet steel enclosure
- Tin Plated, HDHC, 99.9% purity, ETP grade Copper





ROW DB

- Designed as per IEC 61439-1, -2.
- Ingress Protection: IP41 (Type Test IP42, available upon request)
- No. of Module: 16 & 24.
- No. of Rows: 1, 2, 3, 4, 5 & 6.
- 1.2mm thick EGI sheet steel enclosure, RAL 7035 Matt
- Removable Front Cover.
- Knockouts provided on top and bottom sides of enclosure.

SMDB



- Type tested as per IEC 61439-1, -2,
- Ratings: 250A, 400A, 630A, 800A
- Short circuit withstand, upto 50kA for 1s
- Form-2B, IP54, 50degC
- 1.5mm thick EGI sheet steel enclosure
- Tin Plated, HDHC, 99.9% purity, ETP grade Copper
- Fully encapsulated/moulded busbar system enhancing safety and performance
- Polyester Powder Coated: RAL 7035 (other colors available upon request)

TYPE TESTED BUSBAR PAN ASSEMBLIES

Digital Electric Systems FZE takes pride in our busbar pan assemblies from 125A to 800A, designed and type tested as per the rigorous IEC 61439-1, -2, -3 standards. These fully encapsulated assemblies provide complete protection against faults, enhancing safety for operators and installations. Compared to conventional busbar systems, our assemblies offer key advantages such as increased safety, compactness, cost-effectiveness, and faster installation.

Our busbar pan assemblies are uniquely designed to accommodate circuit breakers from renowned manufacturers. With their superior safety features, compatibility, and innovative design, our busbar pan assemblies are the ideal choice for reliable and efficient LV switchgear solutions. Contact us to validate the suitability of the circuit breaker for your requirements.

At Digital Electric Systems FZE, we prioritize delivering exceptional quality and performance in our busbar pan assemblies. We strive to exceed industry standards, ensuring that our products meet the safety requirements and flexibility needed for diverse electrical infrastructure projects.

DB PAN ASSEMBLIES (SUITABLE FOR MCBs / RCBO's)

Busbar Pan Assemblies to be installed in DBs are available in 125A and 250A ratings. Busbars are Tin-plated, HDHC, 99.9% purity, ETP grade Copper. Outgoing links with 18mm Pole Pitch are suitable to accommodate MCBs or RCBOs from any reputed manufacturer. They are available to accommodate upto 18way TP (54way SP) outgoing MCBs/RCBOs. The Pan Assemblies have been type tested as per IEC 61439-1, -3 at 50degC with the following performance.

Short circuit withstand rating,

Icw = 17kA 0.25s for 125A

Icw = 25kA 0.25s for 250A





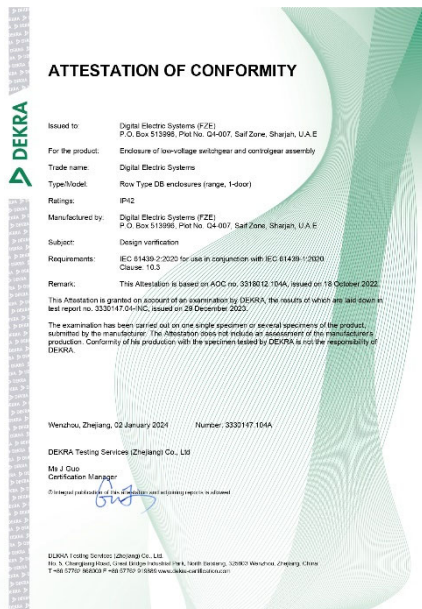
SMDB PAN ASSEMBLIES (SUITABLE FOR MCCB OUTGOING)

Busbar Pan Assemblies to be installed in SMDBs / MCCs are available from 250A to 800A. Busbars are Tin-plated, HDHC, 99.9% purity, ETP grade Copper. Each rating is available with Options to install outgoing MCCBs with various pole pitch variants – 25mm, 35mm providing the flexibility to accommodate MCCBs from different manufacturers as shown.

Characteristics	250A	400A	630A	800A
Short circuit rating, Icw (Type tested, IEC 61439-1)	36kA 1s	42kA 1s	50kA 1s	50kA 1s
Pole Pitch available for suitable Outgoing MCCBs	25mm 35mm	25mm 35mm	25mm 35mm	25mm 35mm

METAL ENCLOSURES

- Designed as per IEC 61439-2.
- Ingress Protection: IP55 for Metal Enclosures / IP66 for Wall Mounting SS
- Mechanical Impact Protection: IK10
- Made of high quality electro-galvanized (EG) Sheet steel enclosure
- Ranging from Floor Standing, Wall Mounting, Wall Mounting – SS, Extendable Enclosures
- Polyester powder coated light grey color: RAL 7035, other colors available upon request.





Our Association



..... and growing!

Stay connected all the time...Join us!

Write to us for your requirements for LV Switchgear solutions. We would also be pleased to assist you on any of your technical queries on LV Switchgear particularly on compliance / type testing to IEC 61439, IEC 61641 standards, Utility regulations (ADDC, DEWA, SEWA, FEWA, Kahramaa, EDD Bahrain, MEW Kuwait, MEW Oman, etc), project specifications, etc.

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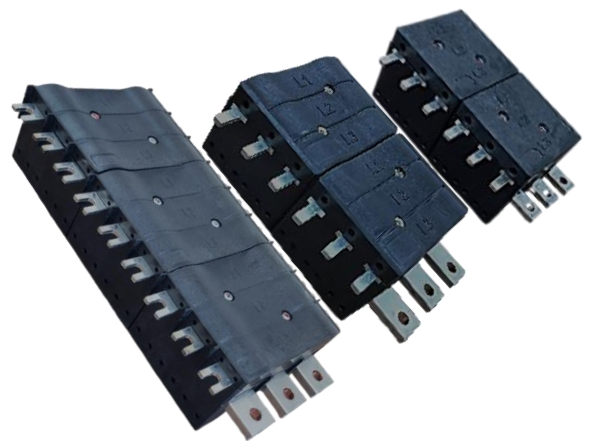
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DES Low Voltage Busbar Pan Assemblies

Certified solution for SMDBs and DBs



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Overview

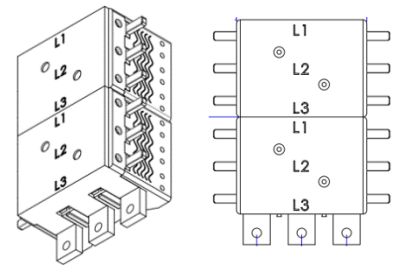
Digital Electric Systems offer standard Pre-assembled Busbar Pan Assemblies for Low Voltage SMDBs and DBs that are designed, manufactured and type tested as per the latest edition of IEC 61439 standards. The Pan Assemblies can be utilized by Panel builders to incorporate in their Distribution boards (SMDBs, DBs) or other Panel systems. This offers them a technically superior, at the same time a cost-effective solution to accommodate circuit breakers from various reputed manufacturers. It adopts a simplified, safe and sturdy construction concept that is modular, ensuring a busbar system that is quality tested and proven with decades of experience in the middle eastern market.

Key Features

- Type tested and certified to IEC 61439-1, 2 standards.
- Busbar system 125A to 800A, fully moulded, safe, encapsulated pan assembly.
- Busbars are type tested with short circuit withstand rating from 17kA for 0.25s upto 50kA for 3s
- Ratings tested and certified @50°C ambient.
- Design of the Pan Assembly conforms to Form-2B as standard, certified as per IEC 61439 standards.

Ready to Install

- The Busbar Pan Assemblies are designed to be installed inside SMDB and DB enclosures.
- Ready to Install purpose fitted mounting brackets are provided as an option, to easily install Incoming devices (Isolators, RCCBs for DBs and MCCBs for SMDBs) and Outgoing devices (MCBs, RCBOs for DBs and MCCBs for SMDBs).
- This method of supplying ready to install SMDB and DB Pan Assemblies helps in retaining the configuration as type tested in accordance with IEC 61439-1, 2 ensuring safety of the operators and the equipment.



Reliability

- Designed to withstand Harsh Environments – use of Tin-plated copper busbars and the fully moulded casing for the busbar pan assembly ensures protection against corrosion, oxidization, etc.
- Interphase barriers between phases inside the busbar assembly limits the risk of internal arcing faults.

Type Tested & Certified

- DES busbar pan assemblies are fully type tested to the latest international standards, IEC 61439-1, -2, -3 with high performance parameters meeting the requirements of major consultants, end users, utilities, etc in the entire MEA region.

Comply with major Utilities

- DES busbar pan assemblies comply with the requirements of all major utilities in the region: ADQCC / ADDC, DEWA, SEWA, EWE... in Qatar: Kahramaa, in Bahrain: EWA, ..in Kuwait: MEW, in Oman: MHEW
- The versatile offer is compliant with all customer requirements for busbar assemblies to be used in SMDBs and DBs in the Gulf as well as the entire Middle East and Africa region.

Technical details

Busbars (Moulded Pan Assembly)

- Busbar type DBs are equipped with a Moulded and Encapsulated Pan Assembly structure, fully segregated from functional units and cable compartments.
- The Fully Moulded busbar system with inter-phase barriers prevents the possibility of internal circuit faults within the assembly.
- The top cover can be opened for easy inspection of joints and to perform Dielectric tests.
- Continuous operating temperature of Mould / Insulating material: 140°C
- Glow wire performance of the insulating material: 960°C
- Copper: Tin Plated, HDHC, 99.9% Purity, ETP Grade used for main busbar and interconnections.

Technical specification

Standards	IEC 61439-1, IEC 61439-2, IEC 61439-3	
Rated Current, In	125A, 250A (for DBs); 250A, 400A, 630A, 800A (for SMDBs)	
Rated Short Circuit Withstand current, Icw	17kA for 0.25s (for 125A DB) upto 50kA for 3s (for 800A SMDB)	
Rated Peak withstand current, Ipk	2.1 x Icw	
Rated Operating Voltage, Ue	400V / 415V	
Rated Insulation Voltage, Ui	690V (for main circuit / main busbars),	
Rated Impulse Withstand Voltage, Uimp	6kV	
Degree of Protection	IP20 protection (preventing access to live parts when doors of the DB/SMDB are opened)	
Number of Outgoing devices	Upto 18-way TP (54way SP)	
Design Ambient temperature	50°C	
Continuous operating temperature of mould / insulating material	140°C	
Glow wire performance of the insulating material	960°C	
Raw Material and Coating	Moulded parts are made of Thermoset PC material with high temp withstand. Busbars are Tin-Plated Copper, HDHC, 99.9% purity, ETP-12 grade	
Form of Separation	Enables compliance to Form-2B as per IEC 61439-1, 2 (Standard) when installed in DBs, SMDBs or other Panel systems	
No. of Outgoing devices	Upto 18-Way TP (54way SP)	
Devices incorporated	The busbar pan assemblies adapts seamlessly, LV Products from all major manufacturers	
	DBs (Final Distribution) <ul style="list-style-type: none"> • MCBs or RCBOs (for outgoing) • RCCBs (for incoming) • Isolators (for incoming) • MCCB (incomer for 250A DB) 	SMDBs (Sub Main Distribution) <ul style="list-style-type: none"> • MCCBs (incoming and outgoing devices)



Option-1 : with mounting plate



Option-2 : without mounting plate

Configuration of Supply

- The Busbar Pan Assemblies are supplied complete with Moulded Insulating material, Main Vertical Tin-plated Copper busbars, Branch / Outgoing Tin-plated Copper busbars with bolted connections.
- **Mounting arrangement:** The Pan Assemblies are supplied in 2 options
 - **Option-1:** With mounting plate (including brackets / fixing arrangement for Outgoing MCCBs), made of galvanized sheet steel of 1.5mm Thickness, epoxy powder coated to RAL 7035 texture finish, making the installation simple and easy for the panel builder.
 - **Option-2:** Without mounting plate (the installer / panel builder needs to install the Pan Assembly onto the mounting arrangement of his enclosure. Suitable non-metallic rivets will be supplied to fix the Pan Assembly. Brackets to mount outgoing devices (MCBs, MCCBs) will need to be done by the installer / panel builder).

Note: Busbar Pan Assemblies for DBs are always supplied without mounting plate

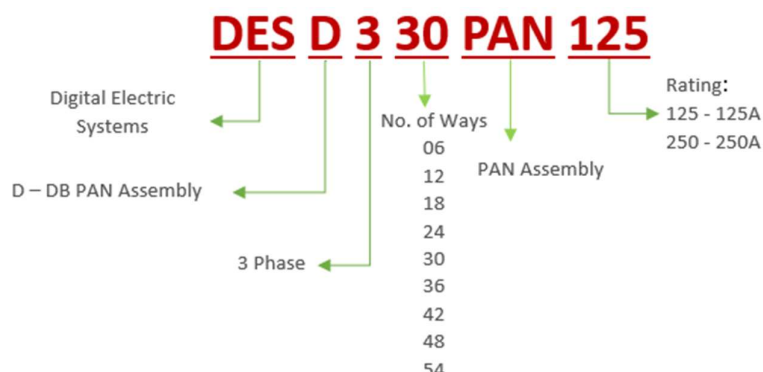
Order Code – Busbar Pan Assembly for DBs

Digital Electric Systems supplies the Busbar Pan Assemblies for DBs, complete with Moulded Insulating parts with Tin-Plated Copper busbars in a Ready To Install format (to be installed inside any enclosure selected by the installer or panel builder) ready to receive MCBs, RCBOs as outgoing devices. They are suitable to install MCBs of several manufacturers with 18mm width. The Busbar Pan Assemblies can be ordered using the below Order Code format.

Brief Technical details of Busbar Pan Assemblies for DBs

Rating	DB	
	125A	250A
Main Busbar size	10 x 5 mm	15 x 5 mm
Branch Busbar size	10 x 3 mm	10 x 3 mm
Busbar Short circuit withstand rating	Icw = 17kA 0.25s	Icw = 25kA 0.25s
Incomer Pitch	18mm	25mm
Outgoing Pitch	18mm	18mm

Order Codes:



References: Busbar Pan Assemblies for DBs

S.No	Description	Ordering Reference	
		125A	250A
1	DB PAN Assembly	DESD306PAN125	DESD306PAN250
2		DESD312PAN125	DESD312PAN250
3		DESD318PAN125	DESD318PAN250
4		DESD324PAN125	DESD324PAN250
5		DESD330PAN125	DESD330PAN250
6		DESD336PAN125	DESD336PAN250
7		DESD342PAN125	DESD342PAN250
8		DESD348PAN125	DESD348PAN250
9		DESD354PAN125	DESD354PAN250

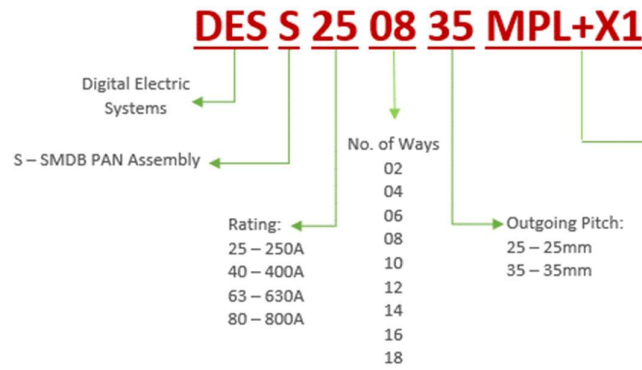
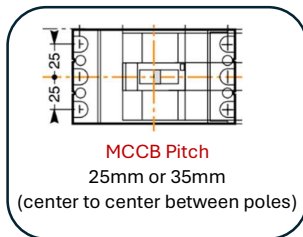


Order Code – Busbar Pan Assembly for SMDBs

Digital Electric Systems supplies Busbar Pan Assemblies for SMDBs, complete with Moulded Insulating parts and Tin-Plated Copper busbars in a Ready To Install format (to be installed inside any enclosure selected by the installer or panel builder) ready to receive MCCBs of various ratings upto 250A, as outgoing devices.

Brief Technical details of Busbar Pan Assemblies for SMDBs

Outgoing Pitch	25mm			35mm			
Rating	250A	400A	630	250A	400A	630A	800A
Main Busbar Option 1	1x 20 x 10 mm	1x 30 x 10 mm	2 x 20 x 10 mm	1x 20 x 10 mm	1x 30 x 10 mm	2 x 20 x 10 mm	2 x 30 x 10 mm
Main Busbar Option 2	2x 20 x 5 mm	2x 30 x 5 mm	(2 x 30 x 6) + (1 x 30 x 5) mm	2x 20 x 5 mm	2x 30 x 5 mm	(2 x 30 x 6) + (1 x 30 x 5) mm	4 x 30 x 5 mm
Branch Busbar	15 x 3 mm	15 x 3 mm	15 x 3 mm	20 x 4 mm	20 x 4 mm	20 x 4 mm	20 x 4 mm
Incomer Pitch	35mm	45mm	35mm	35mm	45mm	35mm	45mm
Outgoing Pitch	25mm	25mm	25mm	35mm	35mm	35mm	35mm
Short Circuit Withstand, Icw	36kA 1s 25kA 3s	42kA 1s 25kA 3s	50kA 1s 25kA 3s	36kA 1s 25kA 3s	42kA 1s 25kA 3s	50kA 1s 25kA 3s	50kA 3s



OPTION-1 (with Mounting plate)	MPL	Pan Assembly with Mounting Plate and Outgoing brackets suitable for MCCBs of 75mm & 105mm width (except ABB MCCBs)
	MPL+X1	Pan Assembly with Mounting Plate and Outgoing brackets suitable for MCCBs of 76.2mm width (ABB Tmax XT1, Formula A1 and other 76.2 width MCCBs)
	MPL+X3	Pan Assembly with Mounting Plate and Outgoing brackets suitable for ABB Tmax XT3 MCCBs
	MPL+X4	Pan Assembly with Mounting Plate and Outgoing brackets suitable for ABB Tmax XT4 MCCBs
OPTION-2 (WITHOUT Mounting plate)	PAN	Pan Assembly (WITHOUT Mounting Plate) suitable for MCCBs of 75mm & 105mm width (except ABB MCCBs)
	PAN+X1	Pan Assembly (WITHOUT Mounting Plate) suitable for MCCBs of 76.2mm width (ABB Tmax XT1, Formula A1 and other 76.2 width MCCBs)
	PAN+X3	Pan Assembly (WITHOUT Mounting Plate) suitable for ABB Tmax XT3 MCCBs
	PAN+X4	Pan Assembly (WITHOUT Mounting Plate) suitable for ABB Tmax XT4 MCCBs




PAN Assembly with Mounting Plate and Outgoing Brackets (MPL) Suitable for NSX, EZC	PAN Assembly with Mounting Plate and Outgoing Brackets (MPL, MPL+X1, MPL+X3, MPL+X4) Suitable for NSX, EZC, ABB – XT1, XT3, XT4, Dorman Smith, Himel, Chint, Eaton etc.,	PAN Assembly (PAN, PAN+X1/ X3 / X4) Suitable for All Leading MCCB Brands with 25mm & 35mm Pitch Centers

LV Components

.... MCB, RCBO, MCCBs







DES Busbar Pan Assemblies are suitable for installing LV components for DBs and SMDBs with devices such as MCBs, RCBOs, MCCBs etc from several reputed manufacturers, some of which are shown below.

Devices for DB's (MCBs, RCBO,..)

ABB – System Pro M contact S200	Schneider Electric – Acti 9 & Easy 9	Eaton – xPole series
		
CHINT – NB1 series	Siemens – SENTRON series	Hager – NCN series
		

Note: DES Busbar Pan Assemblies for DBs are also suitable for other series of MCBs of 18mm width equipped with pin type bolt-on connection.

Devices for SMDB's (MCCBs,..)

ABB – Tmax XT, Formula	Schneider Electric – NSX, CVS, EZC	Eaton – NZM-2, EG, JG
 XT1 XT3, XT4 A1, A2	 NSX CVS EZC	 NZM-2 125A EG-Frame 250A JG-Frame
CHINT – NM1-63, NM1-250	Siemens – 3VA11, 3VA12	Hager – H3+
 NM1-63 NM1-250	 3VA11 3VA12	 H3+ P160 H3+ P250

Note: DES Busbar Pan Assemblies for SMDBs are also suitable for MCCBs from other manufacturers with 75mm width (25mm pitch), 76.2mm width (25mm pitch), 105mm width (35mm pitch)

Who we are

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DESLoad Low Voltage Distribution Boards

Certified, Complete solution for Final DBs



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Overview

Digital Electric System's DESLoad range of Final Distribution Boards (DBs), are designed, manufactured and type tested in accordance with the latest IEC standards IEC 61439-1, IEC 61439-2, IEC 61439-3.

DESLoad DBs are designed upto 250A incorporating IEC 60947 compliant LV components for Final Distribution (MCBs, RCBs, RCCBs, etc) from several reputed manufacturers. It adopts a simplified, safe and sturdy construction concept that are used to build MCB Distribution Boards suitable for use in buildings, residential and industrial applications.

Key Features

- Fully type tested and certified to IEC 61439-1, 2 standards.
- 125A/250A Busbar system, fully moulded, safe, encapsulated pan assembly system.
- Busbars are type tested with short circuit withstand rating of 17kA for 0.25s (250A – 25kA for 0.25s)
- Ratings tested and certified @50°C ambient.
- Form-2B as standard, certified as per IEC 61439 standards.
- Standard offer for Row type DBs for specific market segments (Dubai, N.E in UAE, etc)
- Unique design of door lock for easy operation,
- Maximized gutter space for ease of wiring.
- Reversible door.
- Removable Gland plates.
- Removable Dead front and door.
- IP41, IK08, Epoxy powder coating to RAL7035 is standard.

Reliability

- Designed to withstand Harsh Environments – use of Galvanized sheet metal with Epoxy powder coating ensures protection against corrosion and with IP41 protection, the external influences of dust, water, etc are well protected.

Comply with major Utilities

- DESLoad DBs comply with the requirements of all major utilities in the region: ADQCC / ADDC, DEWA, SEWA, EWE... in Qatar: Kahramaa, in Bahrain: EWA, ..in Kuwait: MEW, in Oman: MHEW
- The versatile offer is compliant with all customer requirements for LV Final Distribution Boards in the entire M.E and Africa region.

Ready to Install

- DESLoad DBs are supplied with an enclosure and complete moulded, encapsulated busbar pan assembly system.
- Ready to Install purpose fitted mounting brackets are provided to easily install Incoming Isolators, RCCBs and Outgoing MCBs.
- This method of supplying ready to install DBs helps in retaining the configuration as type tested as per IEC 61439-1, 2 ensuring safety of the operators and the equipment.
- Row type DBs are available in compliance with DEWA, SEWA and Etihad EW (Northern Emirates) requirements.



Type Tested & Certified

- DESLoad DBs are fully type tested to the latest international standards, IEC 61439-1, -2, -3 with high performance parameters meeting the requirements of major consultants, end users, utilities, etc in the entire MEA region.
- Routine Tests are performed on every assembly in accordance with IEC 61439 prior to shipping to the project site.

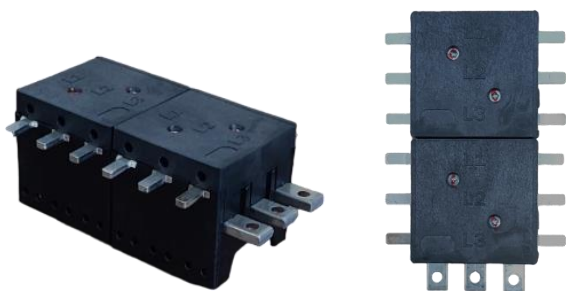


Technical details

Structure

- Digital Electric System's DESLoad DBs, are made using sturdy, folded, high quality galvanized iron sheet steel, designed to withstand the electrodynamic forces during a short-circuit.
- All sheet metal parts undergo a seven-stage treatment process to protect against corrosion and are then epoxy powder coated, finished to RAL 7035.

Standards	IEC 61439-1, IEC 61439-3
Rated Current, In	125A, 250A
Rated Short circuit withstand current, Icw	17kA 0.25s, (25kA 0.25s for 250A)
Rated Peak withstand current, Ipk	34kA (50kA for 250A)
Rated Operating Voltage, Ue	400V / 415V
Rated Insulation Voltage, Ui	690V (for main circuit), 500V (for devices)
Rated Impulse Withstand Voltage, Uimp	4kV
Degree of Protection	IP41
Mechanical Impact withstand strength	IK08
Ambient temperature	50°C
Raw Material and Coating	Galvanized Iron sheet steel with Epoxy Powder coating of 60 to 90 Microns thickness. All external and internal parts are painted finished to RAL 7035 (options available)
Sheet Steel thickness	Robust, Folded, Sheet metal enclosure, modular design, 1.2mm thick
Form of Separation	Form-2B as per IEC 61439-1, 2 (Standard)
Cable Entry / Exit	Bottom Entry (Top entry is available), Top/Bottom Exit
Access	Front
Devices incorporated	Adapts seamlessly, LV Products from all major manufacturers Power Distribution <ul style="list-style-type: none"> • MCBs • RCCBs • Isolators
DB dimensions	Please refer the offer references table



Functional Units

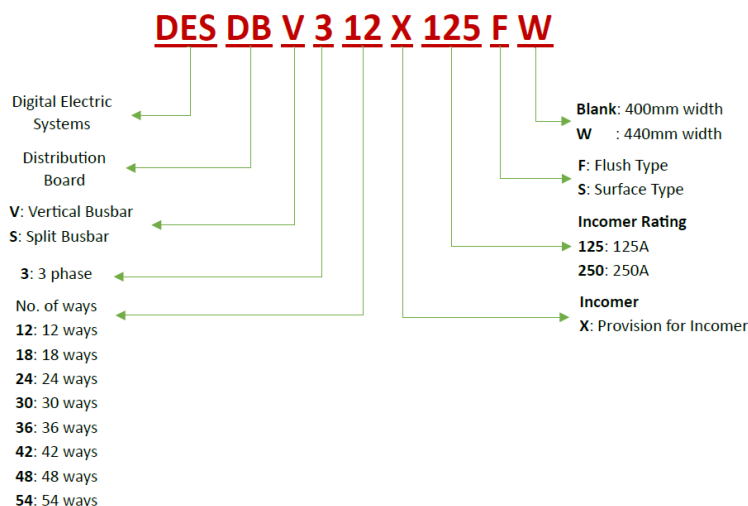
- Outgoing MCBs of various ratings upto 63A can be installed.
- Either 1-Pole or 3-Pole MCBs. Suitable to install MCBs of several manufacturers with 18mm pole pitch (eg: Acti9, Easy9 from Schneider, S200 from ABB, Eaton, Siemens, Chint, Dorman Smith, etc)
- Upto 54nos 1-Pole MCBs or 18nos 3-Pole MCBs can be installed
 - Either on a single vertical busbar
 - OR on 2 Split busbars (each busbar protected by a RCCB) → 100mA RCCB

Busbars (Moulded Pan Assembly)

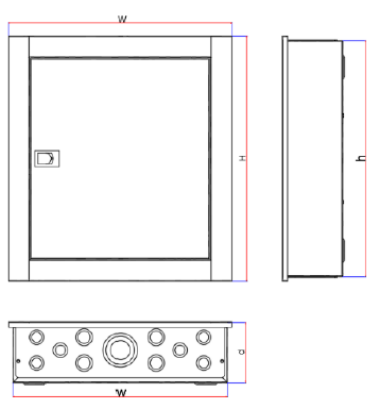
- Busbar type DBs are equipped with a Moulded and Encapsulated Pan Assembly structure, fully segregated from functional units and cable compartments.
- The Fully Moulded busbar system with inter-phase barriers prevents the possibility of internal circuit faults within the assembly.
- The top cover can be opened for easy inspection of joints and to perform Dielectric tests.
- Continuous operating temperature of Mould / Insulating material: 140°C
- Glow wire performance of the insulating material: 960°C
- Copper: Tin Plated, HDHC, 99.9% Purity, ETP Grade used for main busbar and interconnections.

Order Code – Busbar Type DBs

Digital Electric Systems supplies the DESLoad range of LV Distribution Boards (DB) in a Ready To Install format with the enclosure and busbar pan assembly fully assembled, ready to receive MCBs, RCCBs and Isolators. Suitable to install MCBs of several manufacturers with 18mm pole pitch. The Distribution boards can be ordered using the below Order Code format.



Order Codes and Dimensions of DESLoad DISTRIBUTION BOARDs



Single Vertical Busbar



Split Vertical Busbar

References: 125A Single Vertical Busbar DBs

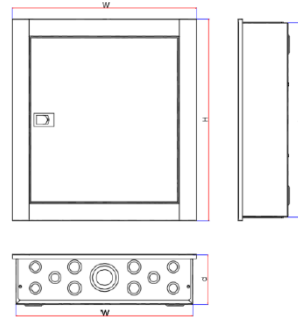
Type	Type of Mounting	No. of Ways	Part Ref.	Dimensions in mm				
				H	W	d	h	w
125A Vertical Type DB	Flush	12	DESDBV312X125F	465	425	117	440	400
		18	DESDBV318X125F	570	425	117	545	400
		24	DESDBV324X125F	570	425	117	545	400
		30	DESDBV330X125F	685	425	117	660	400
		36	DESDBV336X125F	685	425	117	660	400
		42	DESDBV342X125F	735	425	117	710	400
		48	DESDBV348X125F	855	425	117	830	400
	Surface	54	DESDBV354X125F	855	425	117	830	400
		12	DESDBV312X125S	457	417	117	440	400
		18	DESDBV318X125S	562	417	117	545	400
		24	DESDBV324X125S	562	417	117	545	400
		30	DESDBV330X125S	677	417	117	660	400
		36	DESDBV336X125S	677	417	117	660	400
		42	DESDBV342X125S	727	417	117	710	400
		48	DESDBV348X125S	847	417	117	830	400
		54	DESDBV354X125S	847	417	117	830	400

References: 125A Split Vertical Busbar DBs

Type	Type of Mounting	No. of Split Ways	Part Ref.	Dimensions in mm				
				H	W	D	h	w
Split Type DB	Flush	06+06	DESDBS30606X125F	570	425	117	545	400
		06+12	DESDBS30612X125F	570	425	117	545	400
		12+12	DESDBS31212X125F	685	425	117	660	400
		12+18	DESDBS31218X125F	685	425	117	660	400
		12+24	DESDBS31224X125F	735	425	117	710	400
		18+18	DESDBS31818X125F	735	425	117	710	400
		12+30	DESDBS31230X125F	785	425	117	760	400
		18+24	DESDBS31824X125F	785	425	117	760	400
		12+36	DESDBS31236X125F	910	425	117	885	400
		18+30	DESDBS31830X125F	910	425	117	885	400
		18+36	DESDBS31836X125F	910	425	117	885	400
	Surface	06+06	DESDBS30606X125S	562	417	117	545	400
		06+12	DESDBS30612X125S	562	417	117	545	400
		12+12	DESDBS31212X125S	677	417	117	660	400
		12+18	DESDBS31218X125S	677	417	117	660	400
		12+24	DESDBS31224X125S	727	417	117	710	400
		18+18	DESDBS31818X125S	727	417	117	710	400
		12+30	DESDBS31230X125S	777	417	117	760	400
		18+24	DESDBS31824X125S	777	417	117	760	400
		12+36	DESDBS31236X125S	902	417	117	885	400
		18+30	DESDBS31830X125S	902	417	117	885	400
		18+36	DESDBS31836X125S	902	417	117	885	400

References: 250A Single Vertical Busbar DBs

Type	Type of Mounting	No. of Ways	Part Ref.	Dimensions in mm				
				H	W	d	h	w
250A Vertical Type DB	Flush	12	DESDBV312X250F	685	425	140	660	400
		18	DESDBV318X250F	685	425	140	660	400
		24	DESDBV324X250F	735	425	140	710	400
		30	DESDBV330X250F	785	425	140	760	400
		36	DESDBV336X250F	855	425	140	830	400
		42	DESDBV342X250F	975	425	140	950	400
		48	DESDBV348X250F	975	425	140	950	400
	Surface	54	DESDBV354X250F	975	425	140	950	400
		12	DESDBV312X250S	677	417	140	660	400
		18	DESDBV318X250S	677	417	140	660	400
		24	DESDBV324X250S	727	417	140	710	400
		30	DESDBV330X250S	777	417	140	760	400
		36	DESDBV336X250S	847	417	140	830	400
		42	DESDBV342X250S	967	417	140	950	400
		48	DESDBV348X250S	967	417	140	950	400
		54	DESDBV354X250S	967	417	140	950	400

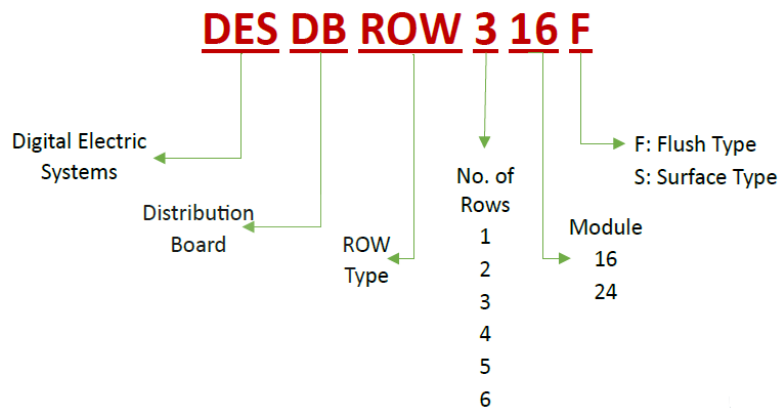


Note: 250A DBs are provided with MCCB Incomer as standard.

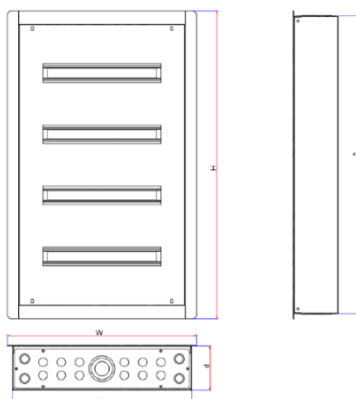
Order Code – Row Type DBs

Digital Electric Systems supplies the DESLoad range of LV Row type Distribution Boards (DB) for applications where the devices (MCBs, RCCBs, Isolators, etc) are installed on horizontally mounted DIN Rails. The devices are then inter-connected using Comb busbars or cable connections. This type of configuration is applied in Dubai, Sharjah and Northern Emirates of UAE and other regions following European design for Final DBs.

The enclosure for the Row DBs follows the same specifications as the Busbar type DBs. The Row DBs are also type tested and certified in accordance with IEC 61439-1 standards having performed the relevant type tests such as Corrosion Resistance (Cl.10.2.2), Degree of protection (Cl.10.3), Mechanical impact (Cl.10.2.6), etc.



Order Codes and Dimensions of DESLoad ROW TYPE DISTRIBUTION BOARDs



Type	Type of Mounting	No. of Rows	Part Ref.	Dimensions in mm				
				H	W	d	h	w
Row Type DB Mod 16	Flush	1	DESDBROW116F	305	460	110	280	440
		2	DESDBROW216F	455	460	110	430	440
		3	DESDBROW316F	605	460	110	580	440
		4	DESDBROW416F	755	460	110	730	440
		5	DESDBROW516F	905	460	110	880	440
		6	DESDBROW616F	1055	460	110	1030	440
	Surface	1	DESDBROW116S	297	452	110	280	440
		2	DESDBROW216S	447	452	110	430	440
		3	DESDBROW316S	597	452	110	580	440
		4	DESDBROW416S	747	452	110	730	440
		5	DESDBROW516S	897	452	110	880	440
		6	DESDBROW616S	1047	452	110	1030	440
Row Type DB Mod 24	Flush	1	DESDBROW124F	305	600	110	280	580
		2	DESDBROW224F	455	600	110	430	580
		3	DESDBROW324F	605	600	110	580	580
		4	DESDBROW424F	755	600	110	730	580
		5	DESDBROW524F	905	600	110	880	580
		6	DESDBROW624F	1055	600	110	1030	580
	Surface	1	DESDBROW124S	297	592	110	280	580
		2	DESDBROW224S	447	592	110	430	580
		3	DESDBROW324S	597	592	110	580	580
		4	DESDBROW424S	747	592	110	730	580
		5	DESDBROW524S	897	592	110	880	580
		6	DESDBROW624S	1047	592	110	1030	580

Note: The DBs are of 16-Modules







Each Horizontal Din Rail Row can accommodate 16nos devices of 18mm width., i.e., 16nos x 1-Pole MCBs (or devices of equivalent dimensions). 24-Module DBs are also available with codes shown above.

The DBs have been type tested and certified for IP42 protection degree by DEKRA.

LV Components

.... MCB, RCBO, RCCB, Switch disconnectors

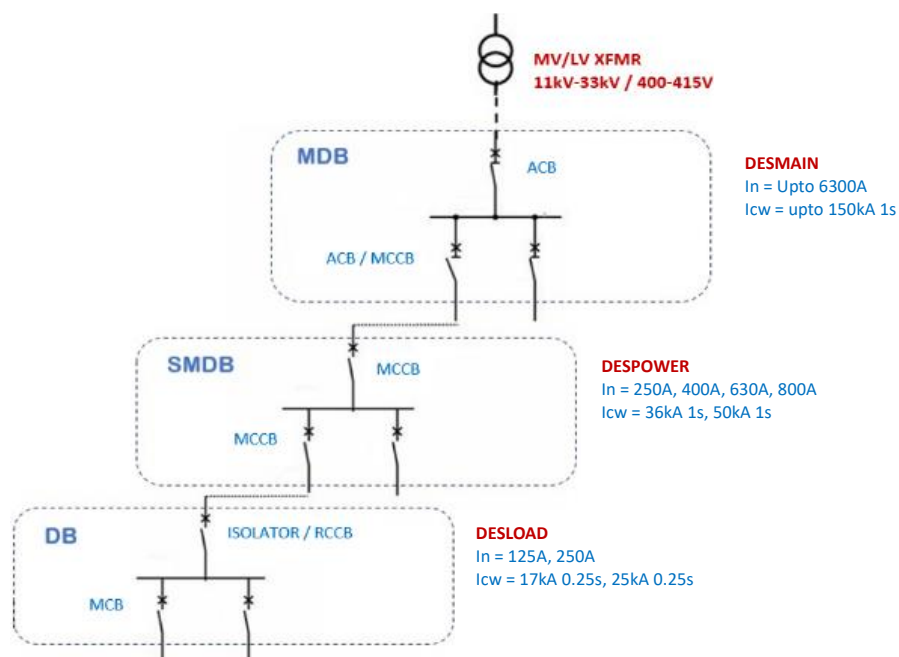
DESLoad DB's are suitable for installing LV components for Final Distribution such as MCBs, RCBOs, RCCBs, Switch disconnectors (Isolators), etc from several reputed manufacturers, some of which are shown below.

ABB – System Pro M contact S200	Schneider Electric – Acti 9 & Easy 9	Eaton – xPole series
		
CHINT – NB1 series	Siemens – SENTRON series	Hager – NCN series
		

Note: DESLoad DBs are also suitable for other series of MCBs of 18mm width equipped with pin type bolt-on connection.

Fully Coordinated Solution

At Digital Electric Systems, we can go the extra mile to support in designing a Fully Coordinated solution (from MV/LV Transformer upto the Final DBs) that can help in ensuring Discrimination / Selectivity at all points in the LV network, thereby ensuring Continuity of Power Supply in the entire LV system.



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Digital Electric Systems FZE

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SUB MAIN DISTRIBUTION BOARD



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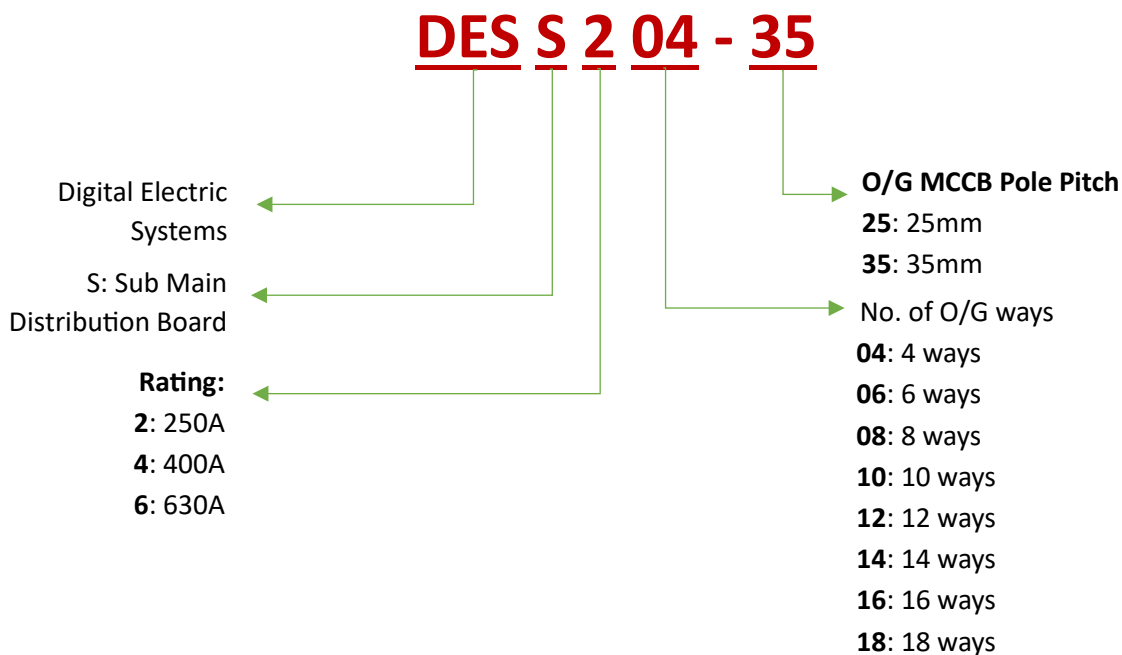
Product Overview

Digital Electric Systems offers Standard Distribution Boards that are designed for safety, reliability and type tested as per the latest edition of IEC 61439 standards complying to international standards and utility regulations in the gulf countries.

Functions and Technical data

- Designed as per new standard: IEC 61439-1 & 2
- Ingress Protection: IP54
- Rating/Types: 250A, 400A, 630A & 800A
- Short-time withstand: 250A – 36kA/1s, 400A – 42kA/1s, 630A – 50kA/1s & 800A – 50kA/1s
- Options to install outgoing MCCBs with various pole pitch variants – 25mm and 35mm
- Design ambient temperature: 50°C
- Continuous operating temperature of Mould / Insulating material: 140°C
- Glow wire performance of the insulating material: 960°C
- Copper: Tin Plated, HDHC, 99.9% Purity, ETP Grade used for main busbar and interconnections.
- Fully Moulded / Encapsulated busbar system with inter-phase barriers preventing the possibility of internal circuit faults within the assembly.
- Ample gutter space for wiring.
- Made of high quality electro-galvanized (EG) Sheet steel enclosure of thickness: 1.5mm
- All fasteners used are ROHS compliant.
- Polyester powder coated light grey color: RAL 7035, other colors available upon request.

Define the Distribution Board of your need.



Dimension Details

SMDB with 35mm Outgoing Pitch					
Incomer Rating	No. of O/G Ways	Part Ref.	Dimensions in mm		
			H	W	D
250A	4	DESS204-35	1000	800	280
	6	DESS206-35	1100	800	280
	8	DESS208-35	1200	800	280
	10	DESS210-35	1300	800	280
	12	DESS212-35	1400	800	280
	14	DESS214-35	1500	800	280
	16	DESS216-35	1600	800	280
	18	DESS218-35	1700	800	280
400A	4	DESS404-35	1200	800	280
	6	DESS406-35	1300	800	280
	8	DESS408-35	1400	800	280
	10	DESS410-35	1500	800	280
	12	DESS412-35	1600	800	280
	14	DESS414-35	1700	800	280
	16	DESS416-35	1800	800	280
	18	DESS418-35	2000	800	280
630A	4	DESS604-35	1200	800	280
	6	DESS606-35	1300	800	280
	8	DESS608-35	1400	800	280
	10	DESS610-35	1500	800	280
	12	DESS612-35	1600	800	280
	14	DESS614-35	1700	800	280
	16	DESS616-35	1800	800	280
	18	DESS618-35	2000	800	280
Incomer Rating 800A Available on Request					

SMDB with 25mm Outgoing Pitch					
Incomer Rating	No. of O/G Ways	Part Ref.	Dimensions in mm		
			H	W	D
250A	4	DESS204-25	1000	800	280
	6	DESS206-25	1000	800	280
	8	DESS208-25	1100	800	280
	10	DESS210-25	1200	800	280
	12	DESS212-25	1200	800	280
	14	DESS214-25	1300	800	280
	16	DESS216-25	1400	800	280
	18	DESS218-25	1500	800	280
400A	4	DESS404-25	1100	800	280
	6	DESS406-25	1200	800	280
	8	DESS408-25	1300	800	280
	10	DESS410-25	1400	800	280
	12	DESS412-25	1500	800	280
	14	DESS414-25	1500	800	280
	16	DESS416-25	1600	800	280
	18	DESS418-25	1700	800	280
630A	4	DESS604-25	1100	800	280
	6	DESS606-25	1200	800	280
	8	DESS608-25	1300	800	280
	10	DESS610-25	1400	800	280
	12	DESS612-25	1500	800	280
	14	DESS614-25	1500	800	280
	16	DESS616-25	1600	800	280
	18	DESS618-25	1700	800	280
Incomer Rating 800A Available on Request					

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METAL ENCLOSURES

Floor Standing, Wall Mounting, Ex-Enclosures



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Product Overview

Digital Electric Systems offers Standard Metal Enclosures that are designed for safety, reliability and type tested as per the latest edition of IEC 61439 standards. DES metal enclosures are known for their exceptional craftsmanship, featuring seamlessly joined corners and a secure outer door that not only swings open for easy access but also acts as a protective cover. This elegant design seamlessly integrates with the overall aesthetics of your building.

We offer a diverse range of models tailored to suit various applications, including indoor and outdoor use, commercial and industrial, as well as specialized designs to meet your unique needs.



Applications

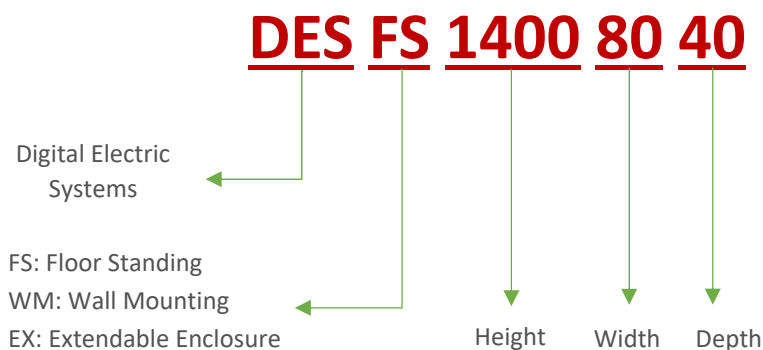
With the unique range, you can discover the perfect fit for your specific need to better suit the installation environment, from small boxes to large suitable floor-standing enclosures.

DES enclosures are polyester powder coated for robustness, offering corrosion and humidity protection to avoid rusting caused by moisture. The enclosure's tight seal prevents dust and water from getting into the panels and wiring.

Customised enclosures can be manufactured to your particular needs, including:

- Sizes
- Wall Mounting, Floor Mounting
- Mounting
- Material thickness
- Colors

Define the Distribution Board of your need.



1. Wall Mounting Enclosures

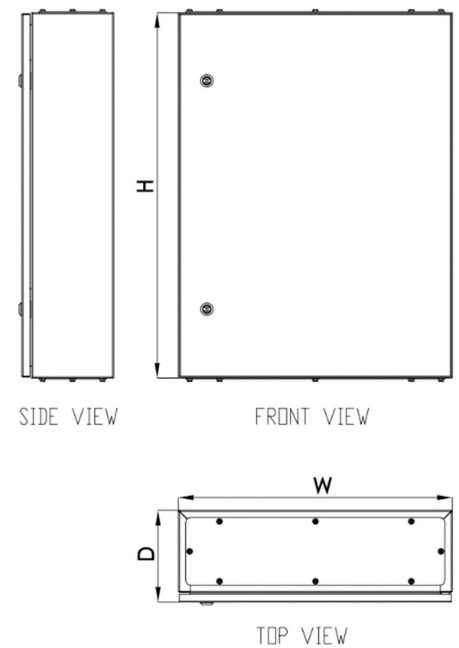
DES WM range is a single door metal enclosure, designed with 1 or 2 points cam locks, available with maximum dimensions up to 1200*1000 mm.

Functions and Technical data

- Designed as per new standard: IEC 61439-2
- Ingress Protection: IP55
- Mechanical Impact Protection: IK10
- Made of high quality electro-galvanized (EG) Sheet steel enclosure of thickness: 1.5mm
- Standard mounting plate 2mm thickness (EG)
- Polyester powder coated light grey color: RAL 7035, other colors available upon request.

Dimension Details

Wall Mounting Enclosure						
S.No	Reference	Dimensions in mm			Thickness in mm	
		H	W	D	Enclosure	Mounting Plate
1	DESWM02502015	250	200	150	1.5	2.0
2	DESWM03002515	300	250	150	1.5	2.0
3	DESWM03003015	300	300	150	1.5	2.0
4	DESWM03003020	300	300	200	1.5	2.0
5	DESWM04003015	400	300	150	1.5	2.0
6	DESWM04003020	400	300	200	1.5	2.0
7	DESWM04004020	400	400	200	1.5	2.0
8	DESWM05004020	500	400	200	1.5	2.0
9	DESWM05004025	500	400	250	1.5	2.0
10	DESWM05005020	500	500	200	1.5	2.0
11	DESWM05005025	500	500	250	1.5	2.0
12	DESWM06004015	600	400	150	1.5	2.0
13	DESWM06004020	600	400	200	1.5	2.0
14	DESWM06004025	600	400	250	1.5	2.0
15	DESWM06005020	600	500	200	1.5	2.0
16	DESWM06005025	600	500	250	1.5	2.0
17	DESWM06006020	600	600	200	1.5	2.0
18	DESWM06006025	600	600	250	1.5	2.0
19	DESWM06006030	600	600	300	1.5	2.0
20	DESWM08006020	800	600	200	1.5	2.0
21	DESWM08006025	800	600	250	1.5	2.0
22	DESWM08006030	800	600	300	1.5	2.0
23	DESWM08008020	800	800	200	1.5	2.0
24	DESWM08008025	800	800	250	1.5	2.0
25	DESWM08008030	800	800	300	1.5	2.0
26	DESWM10006025	1000	600	250	1.5	2.0
27	DESWM10006030	1000	600	300	1.5	2.0
28	DESWM10008025	1000	800	250	1.5	2.0
29	DESWM10008030	1000	800	300	1.5	2.0
30	DESWM100010025	1000	1000	250	1.5	2.0
31	DESWM100010030	1000	1000	300	1.5	2.0
32	DESWM12006030	1200	600	300	1.5	2.0
33	DESWM12006040	1200	600	400	1.5	2.0
34	DESWM12008030	1200	800	300	1.5	2.0
35	DESWM12008040	1200	800	400	1.5	2.0
36	DESWM120010030	1200	1000	300	1.5	2.0
37	DESWM120010040	1200	1000	400	1.5	2.0



2. Wall Mounting Enclosures - SS

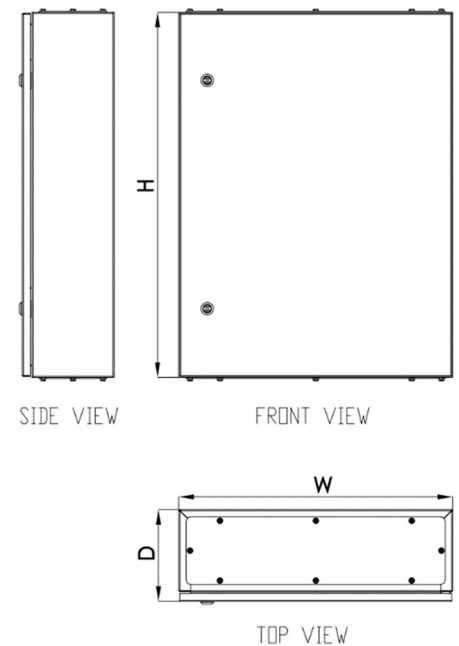
DES SS range is a single door wall mounting stainless steel enclosure, designed with 1 or 2 points cam locks, available with maximum dimensions up to 1200*1000 mm.

Stainless steel enclosures are widely utilised in commercial and industrial applications, as well as in the power distribution and energy industries. Stainless steel's corrosion resistance and ability to withstand frequent washdowns are essential when working with harsh environments and where these industries are located, such as coastal areas or offshore applications.

Functions and Technical data

- Designed as per new standard: IEC 61439-2
- Ingress Protection: IP66
- Mechanical Impact Protection: IK10
- Made of stainless steel with enclosure thickness: 1.5mm
- Stainless steel mounting plate of 2mm thickness

Wall Mounting Enclosure - SS						
S.No	Reference	Dimensions in mm			Thickness in mm	
		H	W	D	Enclosure	Mounting Plate
1	DESWM02502015-SS	250	200	150	1.5	2
2	DESWM03002515-SS	300	250	150	1.5	2
3	DESWM03003015-SS	300	300	150	1.5	2
4	DESWM03003020-SS	300	300	200	1.5	2
5	DESWM04003015-SS	400	300	150	1.5	2
6	DESWM04003020-SS	400	300	200	1.5	2
7	DESWM04004020-SS	400	400	200	1.5	2
8	DESWM05004020-SS	500	400	200	1.5	2
9	DESWM05004025-SS	500	400	250	1.5	2
10	DESWM05005020-SS	500	500	200	1.5	2
11	DESWM05005025-SS	500	500	250	1.5	2
12	DESWM06004015-SS	600	400	150	1.5	2
13	DESWM06004020-SS	600	400	200	1.5	2
14	DESWM06004025-SS	600	400	250	1.5	2
15	DESWM06005020-SS	600	500	200	1.5	2
16	DESWM06005025-SS	600	500	250	1.5	2
17	DESWM06006020-SS	600	600	200	1.5	2
18	DESWM06006025-SS	600	600	250	1.5	2
19	DESWM06006030-SS	600	600	300	1.5	2
20	DESWM08006020-SS	800	600	200	1.5	2
21	DESWM08006025-SS	800	600	250	1.5	2
22	DESWM08006030-SS	800	600	300	1.5	2
23	DESWM08008020-SS	800	800	200	1.5	2
24	DESWM08008025-SS	800	800	250	1.5	2
25	DESWM08008030-SS	800	800	300	1.5	2
26	DESWM10006025-SS	1000	600	250	1.5	2
27	DESWM10006030-SS	1000	600	300	1.5	2
28	DESWM10008025-SS	1000	800	250	1.5	2



Wall Mounting Enclosure - SS						
S.No	Reference	Dimensions in mm			Thickness in mm	
		H	W	D	Enclosure	Mounting Plate
29	DESWM10008030-SS	1000	800	300	1.5	2
30	DESWM100010025-SS	1000	1000	250	1.5	2
31	DESWM100010030-SS	1000	1000	300	1.5	2
32	DESWM12006030-SS	1200	600	300	1.5	2
33	DESWM12006040-SS	1200	600	400	1.5	2
34	DESWM12008030-SS	1200	800	300	1.5	2
35	DESWM12008040-SS	1200	800	400	1.5	2
36	DESWM120010030-SS	1200	1000	300	1.5	2
37	DESWM120010040-SS	1200	1000	400	1.5	2

3. Floor Standing Enclosures

Functions and Technical data

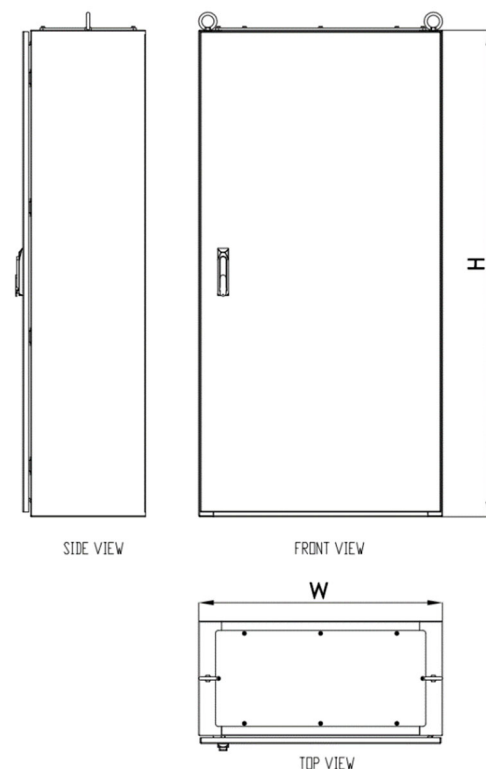
- Designed as per new standard: IEC 61439-2
- Ingress Protection: IP55
- Mechanical Impact Protection: IK10
- Made of high quality electro-galvanized (EG) Sheet steel enclosure of thickness: 2mm
- Standard mounting plate 2.5mm thickness (EG)
- Polyester powder coated light grey color: RAL 7035, other colors available upon request.
- Single & Double Door Floor Standing Enclosures

Dimension Details

Floor Standing Enclosure – Single Door

DES FS range is a single door metal enclosure, designed with 3 points lock handle, available with maximum dimensions up to 2000*1000 mm

Floor Standing Enclosure - Single Door						
S.No	Reference	Dimensions in mm			Thickness in mm	
		H	W	D	Enclosure	Mounting Plate
1	DESFS12008030	1200	800	300	2.0	2.5
2	DESFS120010030	1200	1000	300	2.0	2.5
3	DESFS14006030	1400	600	300	2.0	2.5
4	DESFS14006040	1400	600	400	2.0	2.5
5	DESFS14008030	1400	800	300	2.0	2.5
6	DESFS14008040	1400	800	400	2.0	2.5
7	DESFS140010030	1400	1000	300	2.0	2.5
8	DESFS140010040	1400	1000	400	2.0	2.5
9	DESFS16006030	1600	600	300	2.0	2.5
10	DESFS16006040	1600	600	400	2.0	2.5
11	DESFS16008030	1600	800	300	2.0	2.5
12	DESFS16008040	1600	800	400	2.0	2.5

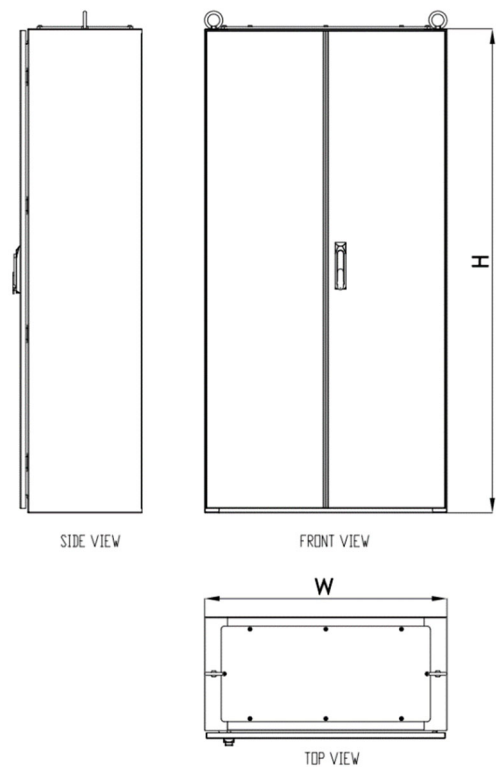


Floor Standing Enclosure - Single Door						
S.No	Reference	Dimensions in mm			Thickness in mm	
		H	W	D	Enclosure	Mounting Plate
13	DESFS160010030	1600	1000	300	2	2.5
14	DESFS160010040	1600	1000	400	2	2.5
15	DESFS18006030	1800	600	300	2	2.5
16	DESFS18006040	1800	600	400	2	2.5
17	DESFS18008030	1800	800	300	2	2.5
18	DESFS18008040	1800	800	400	2	2.5
19	DESFS180010030	1800	1000	300	2	2.5
20	DESFS180010040	1800	1000	400	2	2.5
21	DESFS20006030	2000	600	300	2	2.5
22	DESFS20006040	2000	600	400	2	2.5
23	DESFS20008030	2000	800	300	2	2.5
24	DESFS20008040	2000	800	400	2	2.5
25	DESFS200010030	2000	1000	300	2	2.5
26	DESFS200010040	2000	1000	400	2	2.5

Floor Standing Enclosure – Double Door

DES FS-DD range is a double door metal enclosure, designed with 3 points lock handle, available with maximum dimensions up to 2000*1000 mm

Floor Standing Enclosure - Double Door						
S.No	Reference	Dimensions in mm			Thickness in mm	
		H	W	D	Enclosure	Mounting Plate
1	DESFS120010030-DD	1200	1000	300	2.0	2.5
2	DESFS140010040-DD	1400	1000	400	2.0	2.5
3	DESFS160010030-DD	1600	1000	300	2.0	2.5
4	DESFS160010040-DD	1600	1000	400	2.0	2.5
5	DESFS180010040-DD	1800	1000	400	2.0	2.5
6	DESFS200010040-DD	2000	1000	400	2.0	2.5
7	DESFS200010060-DD	2000	1000	600	2.0	2.5



4. Extendable Enclosures

DES Low Voltage Extendable enclosures are used for power distribution, control, and automation systems. They're usually installed next to transformers and generators that have main and branch circuit breakers.

Functions and Technical data

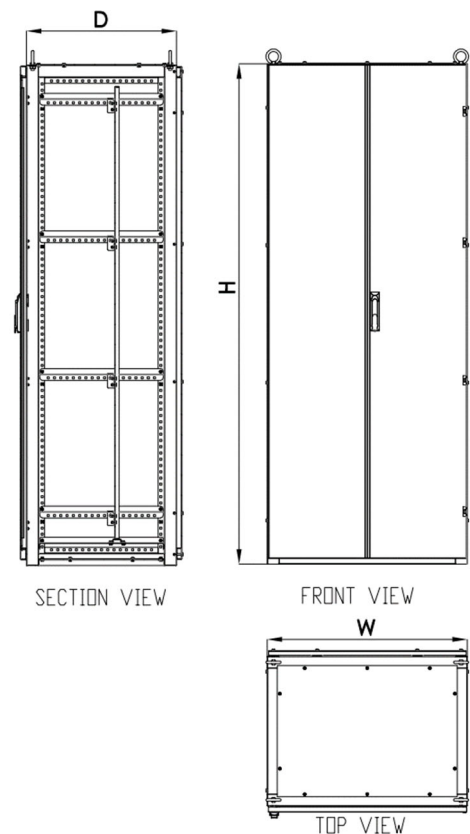
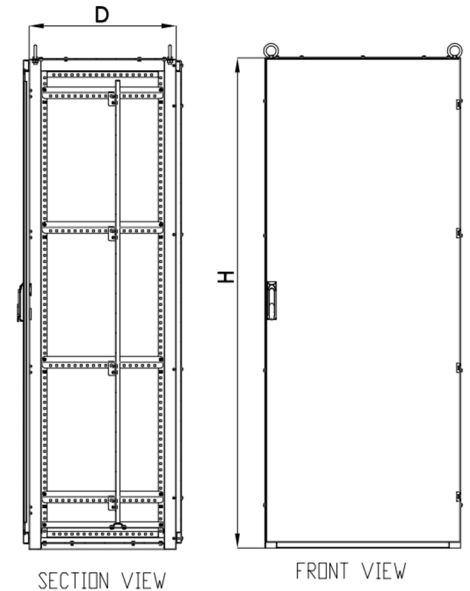
- Designed as per new standard: IEC 61439-2
- Ingress Protection: IP55
- Mechanical Impact Protection: IK10
- Made of high quality electro-galvanized (EG) Sheet steel enclosure of thickness: 2mm
- Standard mounting plate 2.5mm thickness (EG)
- Polyester powder coated light grey color: RAL 7035, other colors available upon request.
- Single & Double Door Extendable Enclosures

Dimension Details

Extendable Enclosure – Single Door

DES EX range is a single door metal enclosure, designed with 3 points lock handle, available with maximum dimensions up to 2000*1200 mm.

Extendable Enclosure - Single Door						
S.No	Reference	Dimensions in mm			Thickness in mm	
		H	W	D	Enclosure	Mounting Plate
1	DESEX16004040	1600	400	400	2.0	2.5
2	DESEX16004060	1600	400	600	2.0	2.5
3	DESEX16006040	1600	600	400	2.0	2.5
4	DESEX16006060	1600	600	600	2.0	2.5
5	DESEX16008040	1600	800	400	2.0	2.5
6	DESEX16008060	1600	800	600	2.0	2.5
7	DESEX160010040	1600	1000	400	2.0	2.5
8	DESEX160010060	1600	1000	600	2.0	2.5
9	DESEX160012040	1600	1200	400	2.0	2.5
10	DESEX160012060	1600	1200	600	2.0	2.5
11	DESEX18004040	1800	400	400	2.0	2.5
12	DESEX18004060	1800	400	600	2.0	2.5
13	DESEX18006040	1800	600	400	2.0	2.5
14	DESEX18006060	1800	600	600	2.0	2.5
15	DESEX18008040	1800	800	400	2.0	2.5
16	DESEX18008060	1800	800	600	2.0	2.5
17	DESEX180010040	1800	1000	400	2.0	2.5
18	DESEX180010060	1800	1000	600	2.0	2.5
19	DESEX180012040	1800	1200	400	2.0	2.5
20	DESEX180012060	1800	1200	600	2.0	2.5
21	DESEX20004040	2000	400	400	2.0	2.5
22	DESEX20004060	2000	400	600	2.0	2.5
23	DESEX20006040	2000	600	400	2.0	2.5
24	DESEX20006060	2000	600	600	2.0	2.5
25	DESEX20008040	2000	800	400	2.0	2.5
26	DESEX20008060	2000	800	600	2.0	2.5
27	DESEX200010040	2000	1000	400	2.0	2.5
28	DESEX200010060	2000	1000	600	2.0	2.5
29	DESEX200012040	2000	1200	400	2.0	2.5
30	DESEX200012060	2000	1200	600	2.0	2.5



Extendable Enclosure – Double Door

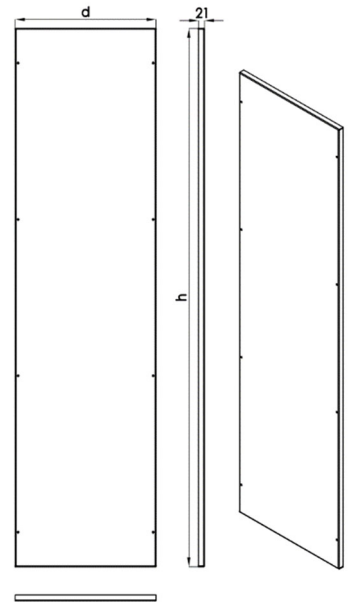
DES EX-DD range is a double door metal enclosure, designed with 3 points lock handle, available with maximum dimensions up to 2000*1200 mm.

Extendable Enclosure - Double Door						
S.No	Reference	Dimensions in mm			Thickness in mm	
		H	W	D	Enclosure	Mounting Plate
1	DESEX200010040-DD	2000	1000	400	2.0	2.5
2	DESEX200010060-DD	2000	1000	600	2.0	2.5
3	DESEX200012040-DD	2000	1200	400	2.0	2.5
4	DESEX200012060-DD	2000	1200	600	2.0	2.5

Side Covers for Extendable Enclosure

DES EX-SC range are the extendable enclosure side cover parts.

Extendable Enclosure - Side Cover							
S.No	Reference	Enclosure Dim in mm		Side Cover Dim in mm		Thickness in mm	Qty in nos
		H	D	h	d		
1	DESEX160040-SC	1600	400	1494	294	2.0	2
2	DESEX160060-SC	1600	600	1494	494	2.0	2
3	DESEX180040-SC	1800	400	1694	294	2.0	2
4	DESEX180060-SC	1800	600	1694	494	2.0	2
5	DESEX200040-SC	2000	400	1894	294	2.0	2
6	DESEX200060-SC	2000	600	1894	494	2.0	2

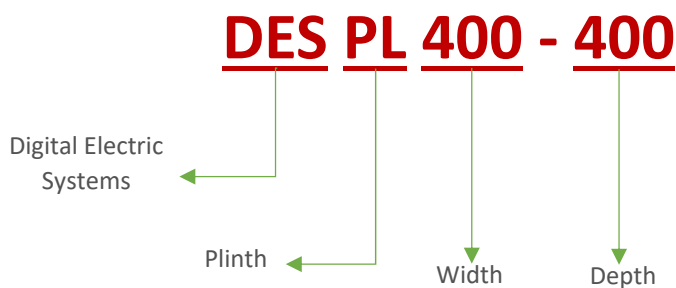


Plinth for Enclosures

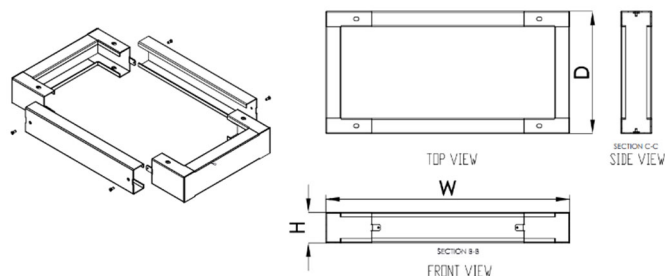
DES PL range is the plinth series for enclosures. Our plinth systems offer a stable base for enclosures while creating additional space for seamless cable entry.

Functions and Technical data

- Made of high quality electro-galvanized (EG) Sheet steel enclosure of thickness: 3mm
- Polyester powder coated black color: RAL 7016, other colors available upon request.



Enclosure Plinth					
S.No	Reference	Dimensions in mm			Thickness in mm
		H	W	D	
1	DESPL400-400	100	400	400	3.0
2	DESPL600-400	100	600	400	3.0
3	DESPL800-400	100	800	400	3.0
4	DESPL1000-400	100	1000	400	3.0
5	DESPL1200-400	100	1200	400	3.0
6	DESPL400-600	100	400	600	3.0
7	DESPL600-600	100	600	600	3.0
8	DESPL800-600	100	800	600	3.0
9	DESPL1000-600	100	1000	600	3.0
10	DESPL1200-600	100	1200	600	3.0



Type Tested Solutions

Digital Electric Systems FZE's entire range of LV Switchgear solutions have been type tested as per latest international standards IEC 61439-1, -2, BSEN 61439-1, -2. All Type tests were carried out at 50degC ambient and were tested & certified by DEKRA.

ATTESTATION OF CONFORMITY

Issued to: Digital Electric Systems (FZE)
P.O. Box 513996, Plot No. Q4-007, Saf Zone, Sharjah, U.A.E

For the product: Enclosure of low-voltage switchgear and controlgear assembly

Trade name: Digital Electric Systems

Type/Model: Wall mounting enclosures (single, 1-door)

Ratings: IK 10, IP65, indoor use

Manufactured by: Digital Electric Systems (FZE)
P.O. Box 513996, Plot No. Q4-007, Saf Zone, Sharjah, U.A.E

Subject: Design verification

Requirements: IEC 61439-2:2020 for use in conjunction with IEC 61439-1:2020
Clause: 10.2.2, 10.2.5, 10.2.8 and 10.3

Remark: This Attestation is based on AOC no. 3318012/105A issued on 7 May 2021.

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in test report no. 3330147/01-ENC, issued on 28 December 2023.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Wenzhou, Zhejiang, 02 January 2024 Number: 3330147/100A

DEKRA Testing Services (Zhejiang) Co., Ltd.

Mu J Guo
Certification Manager

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DEKRA Testing Services (Zhejiang) Co., Ltd.
No. 5, Changjiang Road, Great Bridge Industrial Park, North Building, 310603 Wenzhou, Zhejiang, China
T +86 5770 888800 F +86 5770 810880 www.dekra.com.cn

ATTESTATION OF CONFORMITY

Issued to: Digital Electric Systems (FZE)
P.O. Box 513996, Plot No. Q4-007, Saf Zone, Sharjah, U.A.E

For the product: Enclosure of low-voltage switchgear and controlgear assembly

Trade name: Digital Electric Systems

Type/Model: Stainless steel wall mounting enclosure (large, 1-door)

Ratings: IK 10, IP65, indoor use

Manufactured by: Digital Electric Systems (FZE)
P.O. Box 513996, Plot No. Q4-007, Saf Zone, Sharjah, U.A.E

Subject: Design verification

Requirements: IEC 61439-2:2020 for use in conjunction with IEC 61439-1:2020
Clause: 10.2.2, 10.2.5, 10.2.8 and 10.3

Remark: This Attestation is based on AOC no. 3318012/105A issued on 18 October 2022.

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in test report no. 3330147/03-ENC, issued on 28 December 2023.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Wenzhou, Zhejiang, 02 January 2024 Number: 3330147/105A

DEKRA Testing Services (Zhejiang) Co., Ltd.

Mu J Guo
Certification Manager

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T +86 5770 888800 F +86 5770 810880 www.dekra.com.cn

ATTESTATION OF CONFORMITY

Issued to: Digital Electric Systems (FZE)
P.O. Box 513996, Plot No. Q4-007, Saf Zone, Sharjah, U.A.E

For the product: Enclosure of low-voltage switchgear and controlgear assembly

Trade name: Digital Electric Systems

Type/Model: Floor standing enclosures (single, 1-door and 2-door)

Ratings: IK 10, IP65, indoor use

Manufactured by: Digital Electric Systems (FZE)
P.O. Box 513996, Plot No. Q4-007, Saf Zone, Sharjah, U.A.E

Subject: Design verification

Requirements: IEC 61439-2:2020 for use in conjunction with IEC 61439-1:2020
Clause: 10.2.2, 10.2.5, 10.2.8 and 10.3

Remark: This Attestation is based on AOC no. 3318012/105A issued on 24 March 2022.

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in test report no. 3330147/02-ENC, issued on 28 December 2023.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Wenzhou, Zhejiang, 02 January 2024 Number: 3330147/105A

DEKRA Testing Services (Zhejiang) Co., Ltd.

Mu J Guo
Certification Manager

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T +86 5770 888800 F +86 5770 810880 www.dekra.com.cn

ATTESTATION OF CONFORMITY

Issued to: Digital Electric Systems (FZE)
P.O. Box 513996, Plot No. Q4-007, Saf Zone, Sharjah, U.A.E

For the product: Enclosure of low-voltage switchgear and controlgear assembly

Trade name: Digital Electric Systems

Type/Model: Extendable enclosures (single, 1-door and 2-door)

Ratings: IK 10, IP65, indoor use

Manufactured by: Digital Electric Systems (FZE)
P.O. Box 513996, Plot No. Q4-007, Saf Zone, Sharjah, U.A.E

Subject: Design verification

Requirements: IEC 61439-2:2020 for use in conjunction with IEC 61439-1:2020
Clause: 10.2.2, 10.2.5, 10.2.8 and 10.3

Remark: This Attestation is based on AOC no. 3318012/105A issued on 24 March 2022.

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in test report no. 3330147/02-ENC, issued on 28 December 2023.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Wenzhou, Zhejiang, 02 January 2024 Number: 3330147/105A

DEKRA Testing Services (Zhejiang) Co., Ltd.

Mu J Guo
Certification Manager

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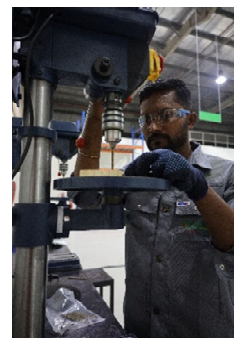
DEKRA Testing Services (Zhejiang) Co., Ltd.
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Who we are

At Digital Electric Systems, our motivation is firmly rooted in the aspirations of our valued customers. Our ultimate objective is to consistently exceed their expectations by providing exceptional products and services, ensuring their complete satisfaction.

The cornerstone of our offerings is the Digital Electric Systems range of distribution solutions. This forms the bedrock upon which we facilitate progress and growth, catering effectively to the diverse needs of a thriving future across residential, commercial, and infrastructure sectors.

Based within the SAIF zone in Sharjah, UAE, Digital Electric Systems FZE stands as a distinguished specialist in the field of Electrical Switchgear systems. Our unwavering dedication aligns seamlessly with the stringent requirements of the entire Middle Eastern market.



Our association



..... and growing!

Stay connected all the time...Join us!

Write to us for your requirements for LV Switchgear solutions. We would also be pleased to assist you on any of your technical queries on LV Switchgear particularly on compliance / type testing to IEC 61439, IEC 61641 standards, Utility regulations (ADQCC, ADDC, DEWA, SEWA, FEWA, Kahramaa, EDD Bahrain, MEW Kuwait, MEW Oman, etc), project specifications, etc.



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Digital Electric Systems FZE

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