DATA CENTER SOLUTIONS

www.eaelectric.com
DATA CENTER SOLUTIONS
EAE Elektrik is your reliable and innovative manufacturer worldwide offering Busbar, Rack Cabinet, Cable Tray and Support Systems to serve the critical Data Center infrastructure with peace of mind.

CUSTOMER DRIVEN DESIGN
The EAE product family has been designed and manufactured to address the needs of end users. At all design steps, customer’s feedback has been considered which guides our design engineers to end-up with more user friendly, modular and wide range products.

LEAN PRODUCTION
To add value for the customers, increase productivity and quality, to manage competition, we strongly adopt “Lean Production”. It is an important tool that helps EAE to act fast, create wide product portfolio and reduce manufacturing costs.

INNOVATIVE APPROACH
The EAE product family provides innovative solutions such as Seismic Rack Cabinets and Seismic Support Systems, Particular Aisle and Containment for Cooling and In-aisle Lighting with continuous R&D studies to increase Energy Efficiency and maximize Uptime.
DATA CENTER SOLUTIONS
Company Profile

Founded in 1973, EAE Elektrik A.S. being the parent company of EAE Group is a worldwide manufacturer of electrical products.

EAE Elektrik A.S. busbar products are certified by KEMA/DEKRA (Holland), KEMA - KEUR, UL classified laboratories as per IEC 61439-1/6 standards.

“Lean Production” and “Innovative and Customer Driven Product Development” approaches are the key values utilized in designing and manufacturing the product families in compliance with ISO 9001, ISO 14001, OHSAS 18001 and ISO 27001.

EAE Elektrik A.S. busbar products are certified by KEMA/DEKRA (Holland), KEMA - KEUR, UL classified laboratories as per IEC 61439-1/6 standards.

Headquartered in Istanbul/Turkey, EAE Elektrik offers together with the EAE Group of companies, “Value Added” Data Center Solutions as described below:

- Busbar Power Distribution Systems (by EAE Elektrik)
- Cable Tray and Support Systems (by EAE Elektrik)
- Rack Cabinets & Containment Systems (by EAE Elektroteknik)
Supervision Services
Experienced EAE teams are available for measurements, installation and testing services on-site.

Short Response & Delivery Time
Extensive manufacturing capacity to provide order deliveries within 3-4 weeks’ time (Ex-Works Incoterms). Emergency manufacturing team can produce in 48 hours any urgent product requirement due to site hold or damaged items during installation.

Busbar Software, 3D and Revit Modelling
Easy-use software for practical and fast project design providing precise material lists. EAE Busbar products are available in Revit and Aveva libraries.

Pre-Sales Customer Services
Comprehensive technical product consultancy for the tailored customer solution and technical design services free of charge.

Certificates
DATA CENTER SOLUTIONS

SECURITY;
Rack, corridor, room, zone and building based physical and environmental security against theft, fire, flood and earthquake shall be maintained and supervised in data center environments. The Colocation & Cloud Computing business models demand customer based physical access to their particular racks and zones while the service provider shall keep the overall operability of the critical IT infrastructure against intrusion. To secure the operational sustainability the IT Power and Digital Infrastructure particular solutions such as Sprinkler Proof Busbars, Tap-Off Boxes with Locking Mechanism and Dual Door (for temperature measurement under load), Seismic Restraint Support Systems, High Fire Resistance, Tin Whisker Protection and Seismic Rack Cabinets with Seismic Stand are from great importance. Customer based physical access against intrusion, mechanical and electro-mechanical locking, keypad access, proximity card access, finger print, eye retina or hand geometry biometric access solutions shall be among the choices of the end-customers.

ENERGY EFFICIENCY;
The accelerated rise of energy consumption in data centers and increasing global energy costs make the energy efficiency the permanent hot topic in the data center industry. Due to its big impact on energy efficiency, the heat sources in the IT Power Infrastructure shall be considered within the scope of an "Energy Optimization Program" leading to reduced power loss and naturally less heat dissipation. In addition to that, the cooling methods shall be considered and implemented carefully aiming to completely isolate cold cooling air and hot exhaust air with a correct airflow management by means of containment solutions.

AVAILABILITY;
The Uptime Institute defines Tier classifications for the proper design, build and operation of data centers. The availability of the data center for the active hardware (servers & switches) and its related power, cooling and digital connectivity infrastructure shall always be maintained during operation, maintenance and the upgrade processes. To ensure this, the IT Power Infrastructure shall provide High Short Circuit, High Fire Resistance, Hot-Swap Operations and Physical Durability as well as Busbar Tap-Off points Flexibility while The IT Passive Digital Infrastructure of Rack Cabinets and High Density Cable Tray Systems shall ensure end-to-end sustainability.

SCALABILITY;
The accelerated rise of the volume of data due to Colocation & Cloud Computing and also the recent trends such as IoT and new approaches in social media is the reason of the Data Center spaces to be LIVE environments with a lots of moves, adds and changes (MACs), bringing up the Scalability issue as one of the important challenges. The data center design approach shall consider the overall capacity increase for the first day and future upgrades with flexible implementations. The IT Power and Passive Digital Infrastructure with High Modularity, Flexible Project Management and Expansion, Time Saving Fast Installations, Free Standing Aisle Containments which are expandable and adaptable for standard and non-standard Rack Cabinets together with Wire Mesh Cable Trays ensure the fulfillment of this objective.
DATA CENTER SOLUTIONS

Challenges

DATA CENTER TIER LEVELS

99,9% Uptime

24/7 365 days
Data Center Solutions
Busbar Power Distribution Systems

Air Segregated Busbar Power Distribution System 160...800 A
The E-Line KO Series is a medium power range busbar system providing a highly flexible solution for the white space of the data centers to distribute power and feed the Rack Cabinets with the required power budgets.

Thanks to their design, E-Line KO busbars are able to accommodate high density tap-off points thus various tap-off boxes can be deployed at every 50 cm. along the both sides of the busbar resulting with a tap-off point at every 25 cm. distance. The E-Line KO Busbars can be used in horizontal or vertical applications. Versatile Tap off box solutions comprising metal and plastic boxes for small currents with particular locking mechanisms, can easily be customized and equipped with different setups of MCBs, SPDs, RCCBs, Power Meters, Energy Analyzers and Current Transformers for electrical protection, energy monitoring and management.

Features:
• Modular structure
• Plug-in tap off points at every 25 cm.
• Aluminium or copper conductors
• 4, 4.5 or 5 conductors
• Tin plated conductors with tin whisker free contacts
• Dust cover on outlet points
• Halogen free material
• IP 55 protection class
• Single shear head bolt joint
• Compact Tap-off Boxes up to 80A
• Metal Tap-Off Boxes up to 400A

Applications:
• Data Centers - White Space Area
• Data Centers - Medium Range Power Distribution Areas with High Density Tap-Off Points
• Other - Medium-sized buildings or industrial facilities

Data Tap-Off Boxes; upto 400 A
To feed the Rack Cabinets with the required power budgets and monitor the energy consumption. EAE offers a wide range Tap-Off Boxes composed of metal and plastic cases.
Air Segregated Busbar Power Distribution System 100-160-225 A

The E-Line MK Series small power range busbar systems are flexible and cost-effective solutions for the distribution of electrical power in data center white spaces for lower energy requirements.

Features:
- Modular structure
- Plug-in tap off outlets at every 25 cm. on both side
- Tin plated aluminium or copper conductors with tin whisker free contacts
- 4 or 5 conductors
- Hinged and lockable dust cover on outlet points
- Halogen free material
- Installation without using a torque wrench (shearhead bolts)
- IP 55 protection class
- Compact Tap-off Boxes up to 80A

Applications:
- Data Centers - White Space Area
- Data Centers - Low Range Power Distribution Areas with High Density Tap-Off Points
- Other - Small-sized buildings or industrial facilities

Tap-off points at every 50 cm. on both sides can be deployed resulting with a tap-off point in each 25 cm. distance. The E-Line MK Busbars can be used in horizontal or vertical applications. Versatile Tap off box solutions comprising metal and plastic boxes rated up to 80A can easily be customized for electrical protection and energy metering.

Customized tap-off boxes provide an independent setup for choosing a variety of electrical equipment to be installed regardless of the brand. Energy Metering over RJ-45 connections using structured cabling is one of the value-added features of the EAE Tap-Off boxes for the real-time monitoring of energy consumption and other critical power parameters in your data centers to monitor and drive your IT infrastructure efficiently.

Features:
- Plastic or Metal
- IP 55 protection class
- Compact Tap-off Boxes up to 80A
- Aluminium Tap-Off Boxes up to 125A
- Sheet metal Tap-Off Boxes up to 400A
- RJ-45 Connectivity
- Energy Monitoring and Management Customization with
  - Main/Molded Case/Residual Circuit Breakers
  - NH Fuses
  - Surge Protection Devices
  - Power Meters with Current Transformers
  - Energy Analyzers
Compact Busbar Power Distribution System 400...7500 A

The E-Line KX Series is the ultimate solution for high power range compact busbar systems to distribute power from the main transformer stations, generator sets and various high power sources through main distribution lines to the LV Switchgear in the data center power infrastructure.

With ratings from 400A to 7500A composed of high conductivity copper and aluminum conductors, the sandwich construction combines insulated conductors in an aluminum housing. Due to its compact design, the EAE E-Line KX Series Busbar System can also be utilized for the data center white space power distribution to leverage the space utilization and heat dissipation. The wide range Tap-Off box choices with customization also applies to the EAE E-Line KX Series.

Features:
- Modular structure
- Plug-in tap off points at every 60 cm.
- Aluminium or copper conductors
- 3; 4; 4,5; 5 or 6 conductors
- Tin or silver plated conductors with tin whisker free contacts
- Epoxy Insulation
- Dust cover on outlet points
- Halogen free material
- IP55, IP65, IP67 protection class
- Seismic compliance
- Single bolt joint
- Sheet metal Tap-Off Boxes up to 630A (Plug-in) 1200A (Bolt-On)
- GreenGuard Gold and CPR B1ca, s1, d0 certifications

Applications:
- Data Centers - White Space Area
- Data Centers - High to Medium Range Power Distribution Areas
- Other - High to Medium sized buildings or industrial facilities

Fire Certificate
KX Series Busbar
- IEC 60331-1 and IEC 60331-21; 1000 °C – 3 Hours
- IEC 60331-1; 830 °C – 3 Hours
- BS 6387; 950 °C – 3 Hours
- BS 8491; 830 °C, 120 minutes + Pressurized Water + Mechanical Impact

Plug-in Tap Off Box
- IEC 60331-1; 830 °C – 3 Hours,
- Magnetic MCCB
- IEC 60331-1; 830 °C – 3 Hours,
- NH Circuit Breakers
DATA CENTER SOLUTIONS
Busbar Power Distribution Systems

Compact Outdoor Busbar Power Distribution System 630...6300 A

The E-Line CR Series is a specific solution for outdoor high power range compact busbar systems to distribute power from the main transformer stations, from generator sets and various high power sources in outdoor environments for the data center power infrastructure.

With ratings from 630A to 6300A, composed of high conductivity copper and aluminum conductors the body of the E-Line CR busbar is formed using DURACOMP, a composite material of epoxy resin and pure silicon which ensures protection against arduous environments with IP68 / IP69 ratings. EAE E-Line CR gives high fault level endurance, good fire ratings and resistance to moisture.

Features:
- ‘DURACOMP’ composite housing
- Fire resistant (Endurance)
- Halogen free material
- Seismic compliance
- Tin whisker free contacts
- Explosion-proof protection – ATEX certified
- Suitable to connect with E-Line KX busbar systems
- IP68 / IP69
- IK XX protection degree

Applications:
- Data Centers - High Range
- Outdoor Power Distribution Areas
- Other - Big Scale buildings or industrial facilities
- Outdoor Power Distribution

EX - Protected


II 2G Ex mb IIC Gb
II 2D IIIC Db

IP55
E-LINE KX
400...7500A

IP68
E-LINE CR
630...6300A

E-LINE CR-KX
Transition Module
CR-KX transition module offers the possibility of reducing cost and improving available substation roof space.
Wire Mesh Cable Trays

E-Line TLS Series wire mesh cable trays allow high density cabling with a flexibility for Moves-Adds-Changes in the data center environments.

Stainless steel or electro-galvanized wire mesh tray with painted option helps to eliminate the tin whisker problems and provides color coding in the cable pathways. The cage structure and feature rich accessories of the E-line TLS cable trays makes it simple for modular expansion and easy access in-between the cable pathways.

Features:
- Wires of 4-5 mm. of diameter to form the cable tray
- In 3000 mm. standard lengths
- Produced as electrogalvanized, stainless steel and also as painted
- H35, H55 and H100 mm.
- W50......W600 mm.
- Flexible application with feature rich accessories
- Fire resistant

Applications:
- Data Centers - White Space Overhead Data Cabling
- Data Centers - White Space Raised Floor applications
- Other - Food Industry, Oil&Gas Industry
Pregalvanized Cable Tray Systems
E-Line UKFC Series cable trays are aimed to build-up a general purpose cabling infrastructure in data center environments.

Features:
- In 3050 mm. standard lengths
- Fire resistant (90 min.)
- H40, H50 and H60 mm.
- W100…W600 mm.
- Pregalvanize and also as painted
- Feature rich accessories

Applications:
- Data Centers - White Space Overhead Power Cabling
- Data Centers - White Space Raised Floor applications
- Other - Buildings, Industrial Facilities

The UKFC cable tray system ensures fast and easy mounting with interlocking mechanism by means of M6 bolts set eliminating the need for additional fittings. Pregalvanized tray with painted option helps to get rid of the tin whisker problems and provides color coding in the cable pathways.
Universal Cable Ladder Systems

E-Line UMK Series cable ladders are suitable to route high density data cabling in-between the cabinet rows in data center environments.

Applications:
- Data Centers - White Space Overhead Cabling
- Data Centers - White Space Raised Floor applications
- Other - Buildings, Industrial Facilities

Features:
- In 3000 mm. standard lengths
- Fire resistant
- H60 mm.
- W100...W400 mm.
- Pregalvanized and also as painted
- Many accessories

The UMK cable ladder system can also be used in general applications with its special design of ladder windows preventing cables from being cut or stripped off accidentally. Pregalvanized cable ladder with painted option helps to eliminate tin whisker problems and provides color coding in the cable pathways.
Data Center Solutions
Support Systems

Heavy Duty and Seismic Support Systems
For the cable trays, cable ladders and seismic restraint solutions of electrical and mechanical equipments, E-Line BR, E-Line A-A and E-Line Seismic support systems provide a sustainable solution for standard and heavy duty applications.

To ensure corrosion resistance and minimize the tin whisker problems, the support systems are manufactured as pregalvanized and hot dip galvanized with electrogalvanized and/or painted accessories.

A-A
Hot Dip Galvanized (TS EN ISO 1461), Fire Resistant (E30-E90)
E-Line A-A series of support systems are designed for heavy duty loads. The A-A series can be produced from 2.0mm up to 4.0mm as hot dip galvanized. With its special coating it can withstand to 400 hours salt test and it is fire resistant.

BINRAK CHANNEL (41x41mm.)
Pregalvanized (TS EN 10346 - TS EN 10143) and Hot Dip Galvanized (TS EN ISO 1461)
E-Line BINRAK series are a support system especially designed for heavy duty loads. The BINRAK series can be produced with 2.0mm and 2.5mm thickness as pregalvanized and hot dip galvanized.

SEISMIC
Hot Dip Galvanized (TS EN ISO 1461)
E-Line Seismic bracing assembly systems are designed to secure the support systems sustainability against seismic waves with lateral and longitudinal applications withstanding the push and pulling forces. The assemblies are produced as hot dip galvanized with electrogalvanized accessories.
KabinPLUS 19" Data Center Rack Cabinets have been designed to offer high flexibility and efficiency with a robust and anti-seismic core construction for data centers.
DATA CENTER SOLUTIONS
Rack Cabinet Systems

85% PERFORATED FRONT DOOR OPENS TO 270°

OVERHEAD CABLE SEPARATORS & LABELLING PLATE
TOP CABLE BRUSH ENTRIES
TOP PLATE WITH SIDE CABLE ENTRIES

UPPER SIDE PANEL
LOWER SIDE PANEL
85% PERFORATED FRONT DOOR OPENS TO 270°

FINGER DUCT CABLE MANAGER
AIR BLOCKING PANELS
FINGER DUCT COVER
FINGER DUCT CABLE ORGANIZER
FINGER DUCT ORGANIZER PLATE
CASTOR & LEVELLING FEET MODULE
Electrical Bonding: full electrical bonding of the rack cabinet, doors-side & roof & bottom panels with the reference bonding point.

Doors: single front and split rear doors toolless displaceable-ventilated by 85% perforation, opens to 180/270 degrees when bayed/not bayed.

Levelling Feet & Castor Module: heavy duty easy drive levelling feet with castors.

Overhead (Roof) Cable Management: toolless mounting of “M” shaped and “A” shaped separators & cable pathways.

Vertical Cable Management: plastic finger cable organizer, plastic ring cable organizer, metal ring cable organizer, finger cable duct organizer, vertical cable tray.

Electrical Bonding: full electrical bonding of the rack cabinet, doors-side & roof & bottom panels with the reference bonding point.
Conformity to Telcordia GR-63-Core, NEBS (Zone 4) standard thanks to its supporting frames and particular construction design.

19" Independent Vertical Mounting Rails; easy and independently adjustable for each bay, manually displaceable with U marking on both sides.

Locking Mechanisms: various lock choices with open access connectivity.

For the physical security and monitored access to your critical infrastructure, mechanical and electromechanical locking, keypad access, proximity card access, fingerprint, eye retina or hand geometry biometric access and their combinations are among the available choices.
Aisle Containment Solutions

To increase the “Energy Efficiency” and manage the “Physical Security & Access Control” in data center environments, KabinPLUS offers Data Center Aisle&Containment Solutions.

Energy Efficiency

The accelerated rise of energy consumption in data centers and increasing global energy costs make the energy efficiency the permanent hot topic in the data center industry. Due to its big impact on energy efficiency, cooling methods shall be considered and implemented carefully according to the type of IT infrastructure. The main purpose shall be to completely isolate cold cooling air and hot exhaust air with a correct airflow management and applying containment solutions of cold air or exhaust air.

Applications:

Reduce Energy Consumption
• Improve Airflow
• Secure Physical Access
• Dedicated Containment
• Separate Cold and Hot Air
• Improve Overall Hardware Equipment Efficiency
• Space Management for Non-Standard Rows
• Room & Space & Cabinets Zoning
Physical Security & Access Control

Rack Cabinet, corridor, room, zone and building based physical and environmental security against theft, fire, flood and earthquake shall be maintained and the access to the related zones shall be supervised in data center environments.

Particular Zoning Solutions

- Particularly designed frames;
- Vertical Space & Room Zoning
- Integrated Cabinet Zoning
- Partition

Integrated Physical Security

- Integrated Physical Security;
- Sliding and folding doors designed to enable physical security for a certain zone of cabinets
Data Center Solutions
Rack Cabinet Systems

Aisle Containment Solution - Cold Aisle
Cold Aisle Containment for rack cabinets with single or double sliding doors and sliding roof frame units made of aluminum with polycarbonate panel material and fire nozzle entry sections.

Thanks to the specially designed fixing and flexible plastic isolation elements, the hot aisle chimney can easily be levelled and installed on top of the cabinets ensuring a flexible containment and airflow separation.

Non-Standart Cabinets Containment
Adjustable to various cabinet heights and widths, dummy elements can be deployed to unused cabinet spaces for partition ensuring flexibility and modularity for future growth as well as for the existing non-standard sized rack cabinets&server hardware. Specially designed seismic stands are applied below the raised floor together with the dummy aluminium&polycarbonate frames adjustable to different heights to accommodate non-standard rack cabinets in different dimensions.

Seismic Stand
Seismic stands ensure an independent platform from day 1 for the existing and future rack cabinet installations as well as for non-standard cabinet rows.
Aisle Containment Solution - Hot Aisle
To ensure hot and cold air insulation to increase energy efficiency in suspended ceiling data center environments, an open chimney system to form the “Hot Aisle” made of aluminum frames with polycarbonate material is utilised where the hot air is directed to the plenum area.

Thanks to the specially designed fixing and flexible plastic isolation elements, the hot aisle chimney can easily be levelled and installed on top of the cabinets ensuring a flexible containment and airflow separation.

K-BAR
Containment Corridor Linear LED Lighting Luminaire

Operation Temperature: -20°C/+50°C
Light Source: Chip LED
Light Color: Natural White (3800-4200 K)
Beam Angle: 120° without lens
Light Efficacy: 105 lm/W
Operation Voltage: 100-240V 50/60Hz.
Power Consumption (W): 10W/m
DATA CENTER SOLUTIONS
Data Center References

- @Home, Groningen
- Abu Dhabi Judiciary Department Data Center, Abu Dhabi
- Accelerated, Frankfurt
- Adalet Bankanlğı IT Center, Istanbul
- ADJD PI Research Center, Abu Dhabi
- Airbus A29, Colomiers
- AIS SILA, Thailand
- Akbank Sabancı Center, Istanbul
- Alcatel Lucent Data Center, Istanbul
- Ancotel, Frankfurt
- Antares Bailly, Romainvilliers
- Aselsan IT Center, Ankara
- Asko Data Center, Oslo
- Astra Zeneca, Cambridge
- AXA Berchem
- Bahnhof AB Data Center, Stockholm
- Banco di Desio, Seriate
- Bank of America, Chennai
- BASE Aartselaar
- Basefarm, Oslo
- BCE GD, Luxembourg
- BNP PARIBAS, Romainvilliers, Bastogne, Vaux sur Sure,
- Boruce Tach Park, Bangalore
- Brigade Metropolis, Cognizant, Bangalore
- Brigade Tech Park, Bangalore
- British Telecom, LOT1&LOT2, Netherlands
- Cable & Wireless, München
- Calculationcenter RegioPolitie, Amsterdam
- Cap Gemini, Docklands UK
- Ced, Regione Toscana
- CEL Streak Software Park, Bangalore
- Centraal Justitieel Incasso Bureau, Leeuwarden
- Cineca, Bologna
- Cisco, Brussels, Amsterdam
- Citibank Global Data Centre, Chennai
- Citibank, Thailand
- Clément Ader, Toulouse
- COLT, Les Ulis
- Computer Gross, Italy
- Crédit Agricole, Chartres
- CSIC Superior Council of Scientific Research, Madrid
- CVI Computercentrum, Utrecht
- Daimler RZ Geb. 11-2, Sindelfingen
- Data4 DC Cornaredo, Milan
- Datacenter Arnhem, Arnhem
- Datacenter Bit, Ede
- Datacenter De Bunker, Kloetinge
- Datacenter Flowtraders, Amsterdam
- Datacenter ITB2 Ecofactorij, Apeldoorn
- Datacenter Main Cubes, Amsterdam Schiphol
- Datacenter Mediapark, Hilversum
- Datacenter MUC 1, München
- Datacenter National Public Service Broadcasting, Hilversum
- Datacenter Sjöbo Kommun, Sweden
- Datacenter World Stream, Naaldwijk
- Datacloud, Brussels
- Datahouse, Alkmaar
- Dataplace (Proserve), Alblaserdam
- Dataplex, Hungary
- Datazaal Hoofd Kantoor RABO, Utrecht
- DC Smart (Van Nelle), Rotterdam
- DC05, Marcoussis
DATA CENTER SOLUTIONS

- Denizbank Data Center, Istanbul
- DETE-Immobilen, Stuttgart
- Deutsche Bank, Bangalore
- Deutsche Bundesbank, Germany
- Deutsches Klima Rechenzentrum, Hamburg
- DFAS Data Center, Norway
- DGR Telekom, Bursa
- Digiplex, Oslo
- Digital Realty, Amsterdam
- Doclerpro, Hungary
- DORA 2012
- DROSACH Cloche d’Or GD, Luxembourg
- DSP 3’ Data Center Project, Russia
- DTO, Ministry of Defence, Airport Woensdrecht
- Equinix, Pantin-Paris
- Equinix, Amsterdam
- Equinix, Oman
- Equinix PA4, Pantin (93), France
- Ericsson AB, Linköping Gen-Power, Sweden
- ESDC Data center - Mumbai
- ESDS Solutions, Mumbai
- Etsalat Data Center - Khalifa City, Abu Dhabi, Al Ain, UAE
- EU Networks, Halfweg
- EUROCLEAR Brussels
- EURONET II Brussels
- Evoswitch, Haarlem
- EVS Liège
- Fastweb (Internet provider) - Firenze, Bergamo, Roma, Bari, Catania, Palermo, Napoli
- Finansbank IT Center, Istanbul
- FORUM II Brussels
- France Telecom-Orange, Rueil Malmaison-Aubervilliers-Val de Reuil
- Free-Iliad, Vitry-sur-Seine
- Global Switch, Clichy
- Göteborgs Energi HK, Sweden
- Green Data Center - ABB, Switzerland
- Greenwich View Data Center, UK
- Grid Telekom, Ankara
- Halkbank Data Center, Istanbul
- HCL Infosys, Chennai
- Hoddesdon Data Center, UK
- Hyde Park Hayes Rackspace Data Center, UK
- Hydro66 Hydroelectric Data Center, Sweden
- IBM Data Center, Brussels, Greenford, Hurley, Bangalore
- IDFC Bank Chennai, India
- Imagination North London Data Center, UK
- InfraServ, Hüthting, Austria
- Intel, Bangalore
- InteXion (La Courneuve, Marseille), France
- InteXion AMS3, Schiphol Rijk, Netherlands
- InteXion MR53, Marseille
- IP Only, Stockholm
- İş Bankası Operational Center Data Center, Istanbul
- İş Bankası Tuzla Data Center, Istanbul
- İTÜ National High Accuracy Calculation Center, Istanbul
- IX – EUROPE, Frankfurt
- KBC Datacenter, Leuven
- KIX Credit Registration Center Data Center, Istanbul
- KPN, Drentestraat, Amsterdam
- Kuveyt Türk Banking Station Data Center, Istanbul
- Khazna, Data Center
- L&T Data Center, India
- L&T, Chennai
- LCL, Belgium, Brussels
- Level 3, Amsterdam
- Linköpings University Data Hall, Sweden
- Lucent Technologies, Bangalore
- Malta Data Center, Malta
- MAN RZ LDR-Gebäude, Dachau
- MOBILY Abhur, Jeddah
- Mobistar, Liège
- Muscat Internation Airport MC3, Oman
- Natixis, Melun-Bailly
- Netmagic, Bangalore
- NEXT DC, (Sydney, Melbourne, Brisbane, Perth) Australia
- Nirlon IT Park, Mumbai
- Nournet, Riyadh
- Nova Data, Eindhoven
- NXS, Amsterdam
- Office Complex Datacenter Muscat, Oman
- Old Reel Store Scotland Data Center Phase 1 & 2, UK
- Optiver, Amsterdam
- Orange, Val de Reuil
- Orange, Chartre
- Polizia di Stato, Bari
- Poste Italiane, Roma
- RABO Bank, Dealingroom, Utrecht
- Radore Telekom Metrocity Data Center, Istanbul
- RAM Mobile Data, Utrecht
- RBS Bank, Birmingham
- Rechenzentrum Airbus, Ottobrunn
- Rechenzentrum EDEKA, Würzburg
- Rechenzentrum RTL, Luxembourg
- Rechenzentrum Universität, Konstanz
- Saltairas Singo Park, Bangalore
- SB-SB, Handelsbanken, Sweden
- SGK (Social Security Institution) Data Center, Ankara
- SMALLS Brussels, Belgium
- SNCF Socrate - Phases 1 & 2, Lille
- Société Générale, Fontenay
- Sparkle Telecom Palermo, Sicily
- Stadtwerke Herne RZ TMR, Germany
- Statistic Landesamt Bayern, München
- SWIFT Brussels, Belgium
- Take Solutions Data Center, India
- T-Com Zentrale, Hamburg
- TCS (Adibatla, Hinjwadi, Infopark, Powai, Sez Bajarat,Trivendrum), India
- TDC, Oslo 2011
- Technik 1 Media Datacenter AB, Sweden
- Tele 2, Stockholm, Gen-Power, Sweden
- TeleCity – Phases 1 & 2, Courbevoie
- TeleCity AMS2 & AMS4, Wenczebachweg, Amsterdam
- Telecom Italia – Cesano Maderno, Mestre, Cassina de Pecchi, Rozzano, Aprilia, Acilia
- Telekommunikation Denmark, Copenhagen
- The Data Center Group, Netherlands
- THY Data Center, Istanbul
- T-Mobil II, Bonn
- T-Systems, München
- Turkcell, Gebze, İzmit, Ankara, Çorlu
- Türkiye Finans Katılım Bankası Data Center, Istanbul
- Turkuaz Data Center, Ankara
- Twin Datacenters, National Tax Authorities, Apeldoorn
- UK2 GROUP, London
- Unisource Brussels, Belgium
- University of Amsterdam, SARA Computer, Amsterdam
- UOB Operation Center Building, Thailand
- UZ-Leuven Leuven
- Vakflar Bankası Data Center, Ankara
- Virtus (Equinix AMS1), Amsterdam
- Virtus Enfield Data Center, UK
- Vodafone, Arnhem
- Volta Great Sutton Street Data Center, UK
- Volvo Data, Gothenburg Gen-Power, Sweden
- WE Dare Rium, Capelle a/d Ijssel, Netherlands
- Wide XS, Amsterdam
- Wipro (Bangalore, Cochin, Pune), India
- Woking Data Center, UK
- WTC, Bangalore
- YKBU Yapı Kredi Banking Center Data Center, Istanbul
- Zenium Data Center; Slough, Frankfurt, Istanbul
<table>
<thead>
<tr>
<th>PRODUCT TYPES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSBAR ENERGY DISTRIBUTION SYSTEMS</td>
<td></td>
</tr>
<tr>
<td>RACK CABINET SYSTEMS</td>
<td></td>
</tr>
<tr>
<td>CABLE TRAYS</td>
<td></td>
</tr>
<tr>
<td>SUPPORT SYSTEMS</td>
<td></td>
</tr>
</tbody>
</table>

Please visit our website for the updated version of our catalogues.
www.eaeelectric.com
EAE Elektrik A.S.
Akcaburgaz Mahallesi,
3114. Sokak, No:10 34522
Esenyurt - Istanbul - TURKEY
Tel: +90 (212) 866 20 00
Fax: +90 (212) 886 24 20

EAE Elektrik Gebze Factory
Gebze IV Istanbul Makine ve
Sanayicileri Organize Bölgesi
6.Cadde No.2 Demirciler Koyu
Dilovası - KOCAELİ - TURKEY
Tel: +90 (262) 502 05 65
Fax: +90 (262) 502 05 70

EAE Elektroteknik A.S.
Ikitelli Organize Sanayi Bölgesi
Ziya Gokalp Mahallesi,
Eski Turgut Ozal Caddesi No: 20 34490
Basaksehir - Istanbul - TURKEY
Tel: +90 (212) 549 26 39
Fax: +90 (212) 549 37 91
www.eae-et.com.tr

Please visit our website for the updated version of our catalogues.
www.eaeelectric.com

EAE has full right to make any revisions or changes on this catalogue without any prior notice.