



Become a Motor Management Expert

E-Guide | Process Industries

START

Life Is On





Purpose of the

E-GUIDE

Experience Schneider Electric's complete Motor Management approach and solutions with our digitized tools, e-learning modules and much more.

We will guide you at every step of the way through the selection and design phases of our Motor Management solutions, so you can benefit today.



Life Is On

Schneider
Electric

E-GUIDE

PROCESS

A complete journey to become a Motor Management expert!

Get the basics

Let's start with the basics of Motor Management as we answer some essential questions like: Why are electric motors so critical for electro intensive industries? What are the main motor applications? What are the Motor Management challenges?...

GO

Define Motor Management architecture

Be able to define the most suitable architecture: Core or Digitized and find out the related products.

GO

Know & understand

To upscale your awareness on our Motor Management approach and solutions, discover the set of dedicated content and training support available online.

GO

Design a solution

Want an easier, more efficient and faster way to design and quote your motor management project? Find out how with the digital tools developed by Schneider Electric to support your motor control configuration, solution selection, energy savings and more.

GO

Discover benefits for Partners

Let's find out the key benefits of our Motor Management approach for Partners: Specifiers, Panel Builders and Contractors.

GO

Go further

Upscale your technical skills with our extensive range of case studies, technical articles and white papers written by our motor management experts.

GO

Design a solution

Leaflets in PDF *(promotional, catalog,...)*

- [Motor Management offer panorama](#)

Digitized tools for designing a solution

- [EcoStruxure™ Motor Management Design Web-App](#)
- [EcoStruxure™ Motor Control Configurator](#)
- [Altivar Process Configurator](#)

E-learning for Partners on 'mySchneider'

- [Discover EcoStruxure™ Motor Management Design Web-App](#) 25 minutes
- [Using EcoStruxure™ Motor Management Design Web-App: Demo](#) 10 minutes
- [Case-Study: From MV to LV – COMING SOON](#)



PDF leaflet



Video



On-line course



Blog

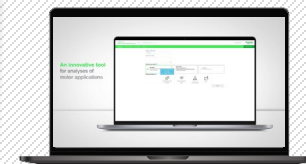
Must see

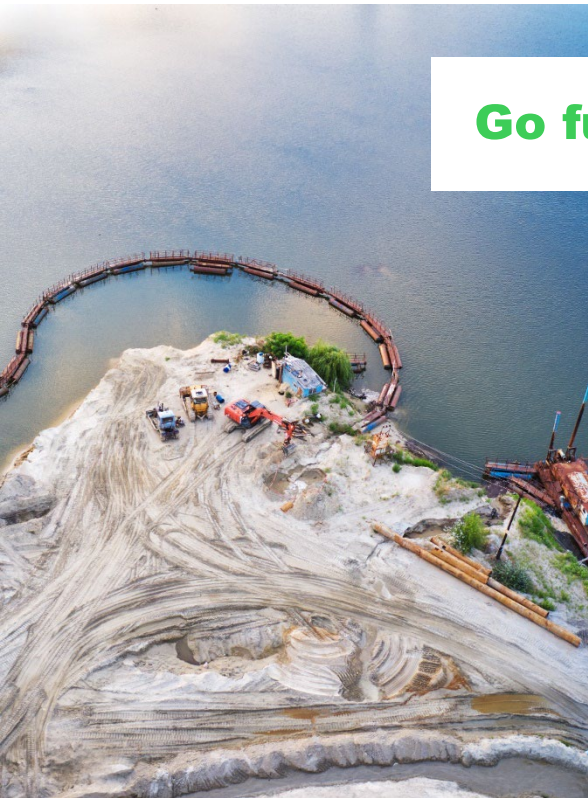


[Discover EcoStruxure™ Motor Management Design Web-App](#)

[Discover EcoStruxure™ Motor Control Configurator](#)



[Drive energy saving analysis using EcoStruxure™ Motor Management Design Web-App](#)








Go further







Application Leaflets

-  [LNG ship motor starting analysis](#)
-  [Guide for Large Pump applications in Mining: Solving the LV vs MV dilemma when optimizing costs for motor management](#)

White-Papers

-  [Recommended power system design for mid-size iron ore mines](#)
-  [Network architecture for optimized mining power system](#)
-  [Modeling of Motor Starting Methods in EMTP-ATP](#)
-  [Improve efficiently soft-starter transient's immunity](#)

Blog Articles

-  [5 steps for efficient MOMA design](#)
-  [3 safety measures for motors with individual power power factor correction](#)
-  [All motors contribute to the main busbar short-circuit, reality or dream?](#)
-  [A case study: Comparison of MV and LV solutions for mine conveyor applications](#)
-  [Large Motor Starting 103: Motor Starting Methods - How to Choose the Right One](#)
-  [VFDs and soft starters: is there really a competition?](#)

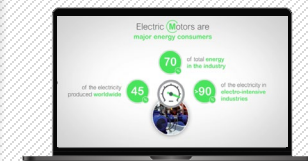
"How to" videos



[How to use EcoStruxure™ Motor Control Configurator for VSD](#)

[How to use EcoStruxure™ Motor Control Configurator for TeSys Island](#)

[How to improve energy efficiency with motor applications involving flow variation](#)



PDF leaflet



Video



On-line course








Blog



Know & understand

Leaflets in PDF *(promotional, catalog,...)*

-  [Motor Management for LV and MV high-power motor applications](#)
-  [Motor Management offer panorama](#)
-  [White Paper Modeling of Motor Starting Methods in EMTP-ATP](#)
-  [White paper: CT 214 - Energy efficiency: benefits of variable speed control in pumps, fans and compressors](#)
-  [Three steps for reducing total cost of ownership in pumping systems](#)

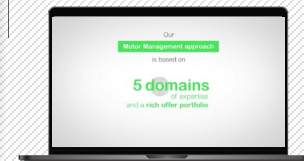
E-learning for Partners on 'mySchneider'

-  [How to meet Motor Management challenges](#)  20 minutes

Must see



[Discover Motor Management approach in a short video](#)



PDF leaflet



Video



On-line course



Blog



Get the basics

Wrap-up of answers to essential questions you probably have:

- Why electric motors are so critical for electro intensive industries?
- What are the main motor applications?
- What are the Motor Management challenges?
- ...

GO

Other Assets

- [Large motor starting 101: Find out the constraints](#)
- [Large Motor starting 102: Motor applications and their characteristics – for a better motor management](#)

E-learning for Partners on 'mySchneider'

- [From Electric Motor to Motor Applications](#) 20 minutes



PDF leaflet



Video



On-line course



Blog



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[Discover benefits for Partners](#)

[Design a solution](#)

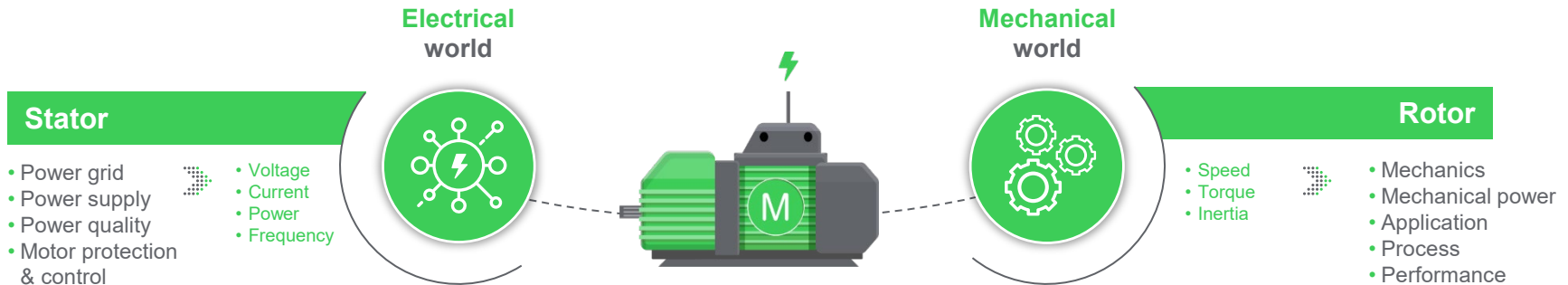
[Go further](#)

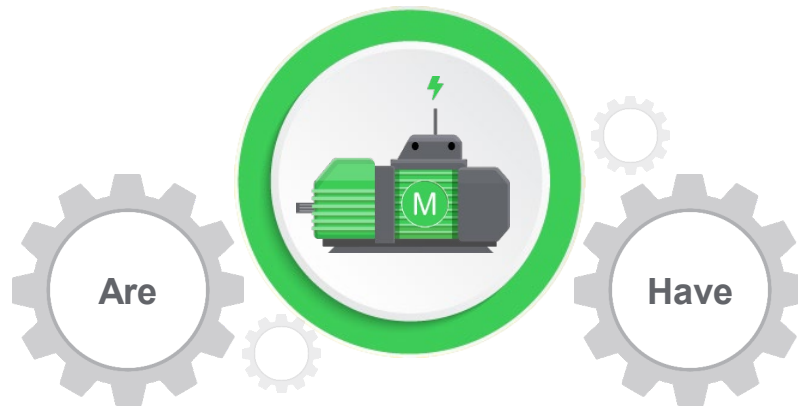


About Electric Motors



Electric **(M)**otors are the **connection** between **2 worlds**





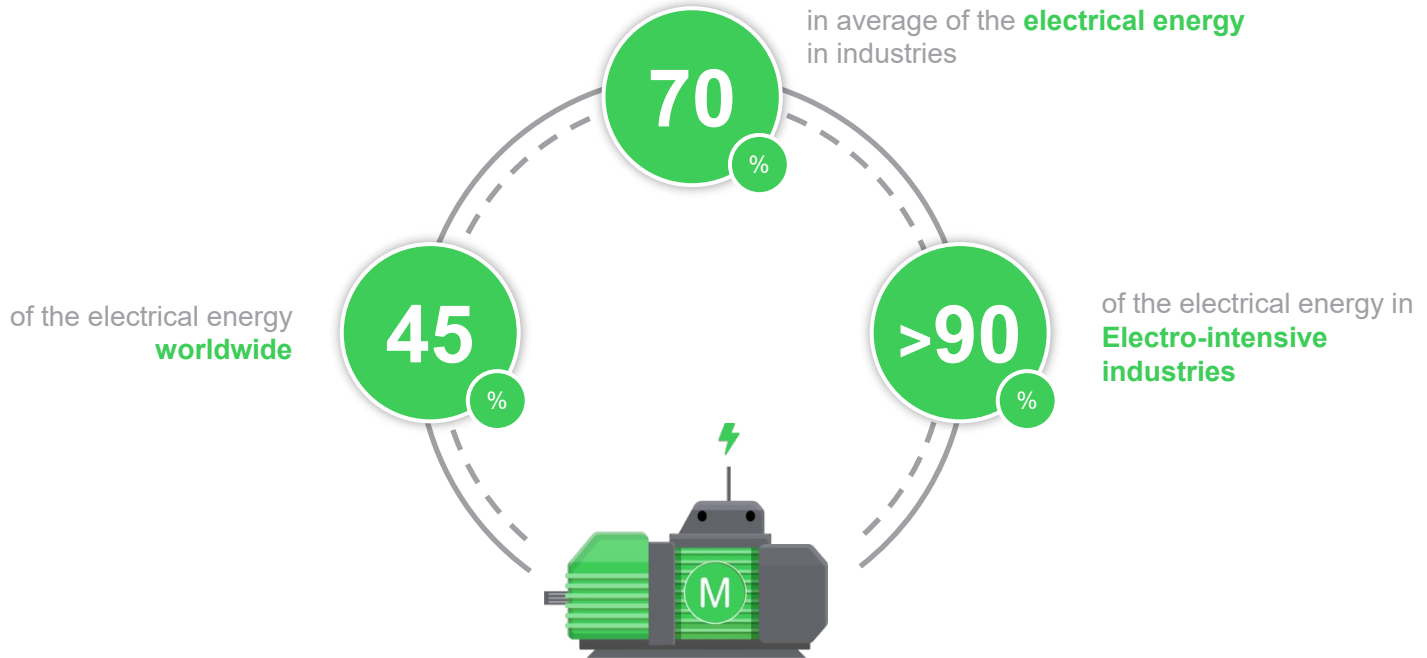
**everywhere
in process**

- Pumping
- Ventilation
- Gas compression
- Material handling
- Transportation
- Etc.

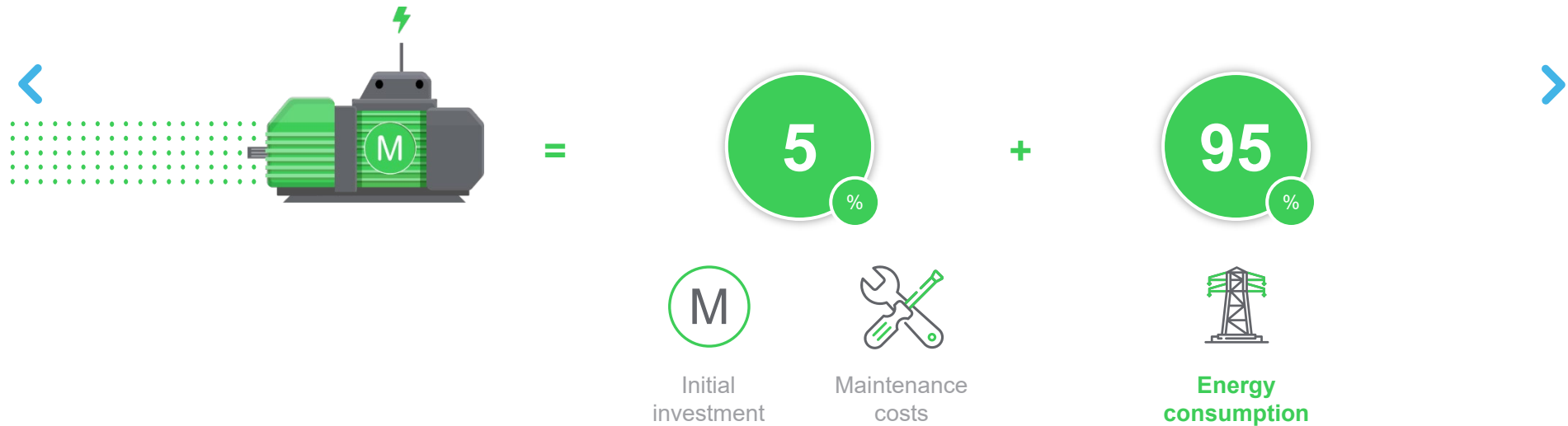
**influence
and impact on**

- Equipment
- Electrical network values
- Transformer
- Starting solution
- Power quality

Electric **M**otors use



Electric **M**otors are major energy consumers





Electric Motors are
**one of the highest priority
equipment for monitoring
and maintenance**





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About Motor Applications



Motor Applications for industries **are versatile**



Utilities

- Air ventilation
- Pumping
- Gas compression
- ...

70
%

of applications



Transportation

- Handling machines
- People moving equipment
- Lifting
- Marine propulsion
- Rail propulsion
- ...

30
%

of applications



Process

- Cranes
- Hoisting
- Winches
- Packaging
- Mills
- Belt
- Conveyors
- Crushers
- ...



Key applications per segment



Mine mineral metal

- Fans and blowers
- ID fans, mine ventilators, furnace blowers
- Material handling conveyors, hoists, winders ...
- Mineral processing crusher, grinding, mills ...
- Pumps and compressors



Water & wastewater

- Water suction pump
- Water supply pump
- Primary suction pump
- Secondary clean water pump
- Lifting pump / archimedes screw



Oil & gas

- Kiln head exhaust fan
- Water injection pump
- Dissolvent raw material pump
- Distillation tower bottom pump
- Coking furnace radiation pump
- Diesel oil transfer pump
- Boiler induced draught fan
- Boiler forced draught fan
- Primary fan
- Condensate pump
- Sewage pump



Marine

- Water pumps
- Hoists
- Winders
- Gas compressors
- ...



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About Motor Management





Challenges
for motor management
**differ from those for
electrical distribution!**



Motor Management

challenges



Electrical



Mechanical



Maintenance

MORE



Electrical Installation



- **Maintain system voltage** at acceptable level during start-up
- **Control power factor and harmonics** in normal operation
- **Limit fault current contribution and impact** on equipment sizing and cost



- **Define an adequate torque and speed control** solution for the application
- **Avoid premature aging** by limiting the mechanical stress on start-up
- **Improve energy efficiency** for applications with flow variation

Process & Mechanics

Maintenance



- **Adapt maintenance actions** to the specific characteristics of high-power motors
- **Properly schedule maintenance** operations
- **Integrate preventive maintenance** in the electrical installation from the design stage



Motor Management is
a **specialist business** where
expertise makes the difference





Discover benefits for Partners

Let's find out the key benefits of our Motor Management approach for Partners: Specifiers, Panel Builders and Contractors.

GO

Leaflets in PDF (promotional, catalog,...)

 [Motor Management for LV and MV high-power motor applications](#)

Videos

 [Motor Management solutions](#)



PDF leaflet



Video



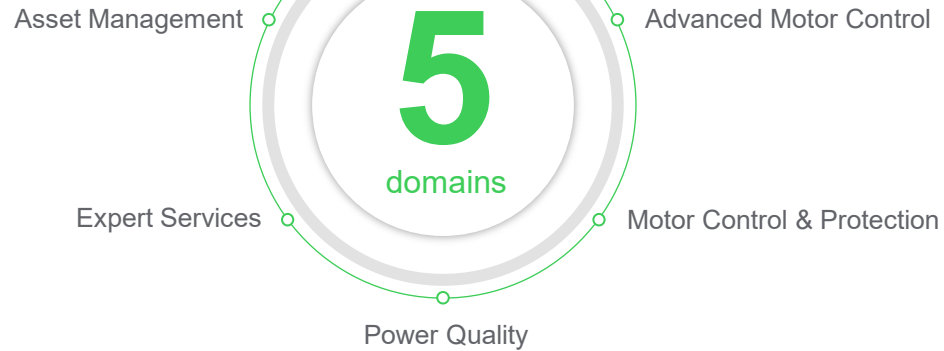
On-line course



Blog



Motor Management approach
by Schneider Electric is based on...





Motor Management Portfolio

Proactive Maintenance & Services

Software & Cloud Analytics

Data collection

Motor Asset Management

Expert Services for Motor Applications

- EcoStruxure™ Motor Control Configurator
- Altivar Process Configurator
- EcoStruxure™ Motor Management Design
- Services

Advanced Motor Control

- Autotransformer starters
- Soft starters
- Variable speed drive (VSD)

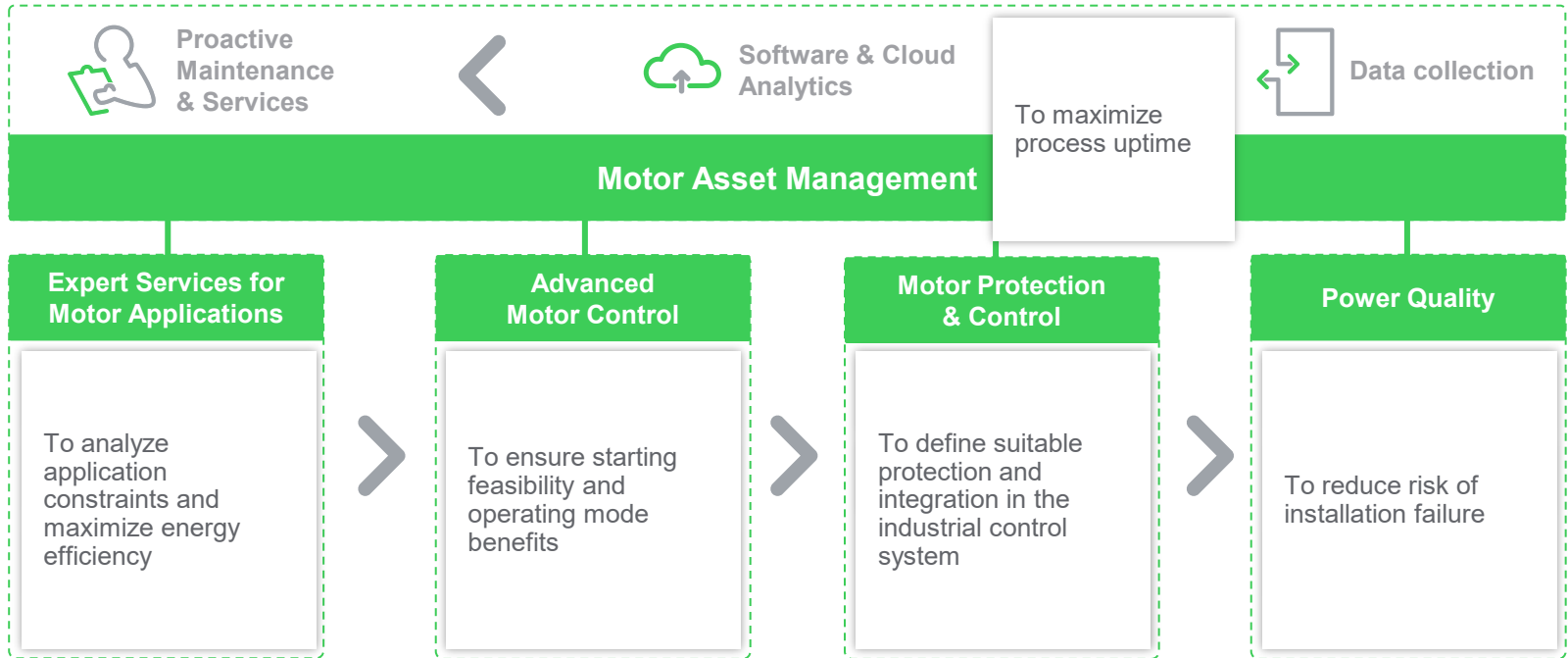
Motor Protection & Control

- Protection relays
- Switchboards & motor starters

Power Quality

- Power factor correction
- Harmonic mitigation transformers
- Transformers (indoor & outdoor)

Motor Management Portfolio






If your expectations are:

- Reliability
- Connectivity
- Efficiency
- Performance



Schneider Electric's **Motor Management approach is made for you!**





With our Motor Management solutions you can achieve...

Up to
20%

investment savings **choosing the suitable voltage level.**

Up to
30%

with a **proper engineering** of Motor Management solutions.

Up to
30%

reduction of energy consumption for variable flow applications, with **substantial environment impact reduction**



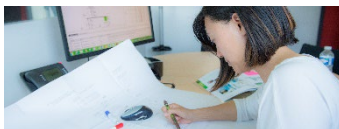
Improved productivity and energy efficiency thanks to the Digital Services and Analytics



Motor Management for Partners: A substantial support to succeed your main challenges!



Consultants, designers
& Engineers



BENEFITS

Panel builders



BENEFITS

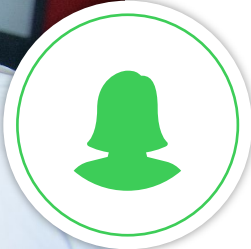
Contractors



BENEFITS



CONSULTANTS, DESIGNERS & ENGINEERS



Gain time in design and selection routines to build a complete motor Management architecture



Be competitive with optimized, fit to purpose design of the installation



Easy to learn / access most relevant digital content for a concrete case



Be more efficient in electrical design for upgrade



PANEL BUILDERS



Become expert in Motor Management with specialization



Be competitive in CAPEX and OPEX phases



Make the difference through expertise



Develop new businesses

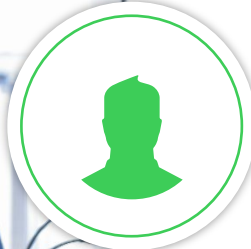
CONTRACTORS



Reduce CAPEX and OPEX of the installation



Maximize process reliability and continuity



Improve productivity



Improve energy efficiency (reduce energy consumption, make savings on energy bill...)



Define Motor Management Architecture

Schneider Electric distinguishes **2 typical electrical architectures** for motor applications **in Process Industries.**

[Discover key functions](#)

CORE

ARCHITECTURE

PRODUCTIVITY and MODULARITY

LV

MV

DIGITIZED

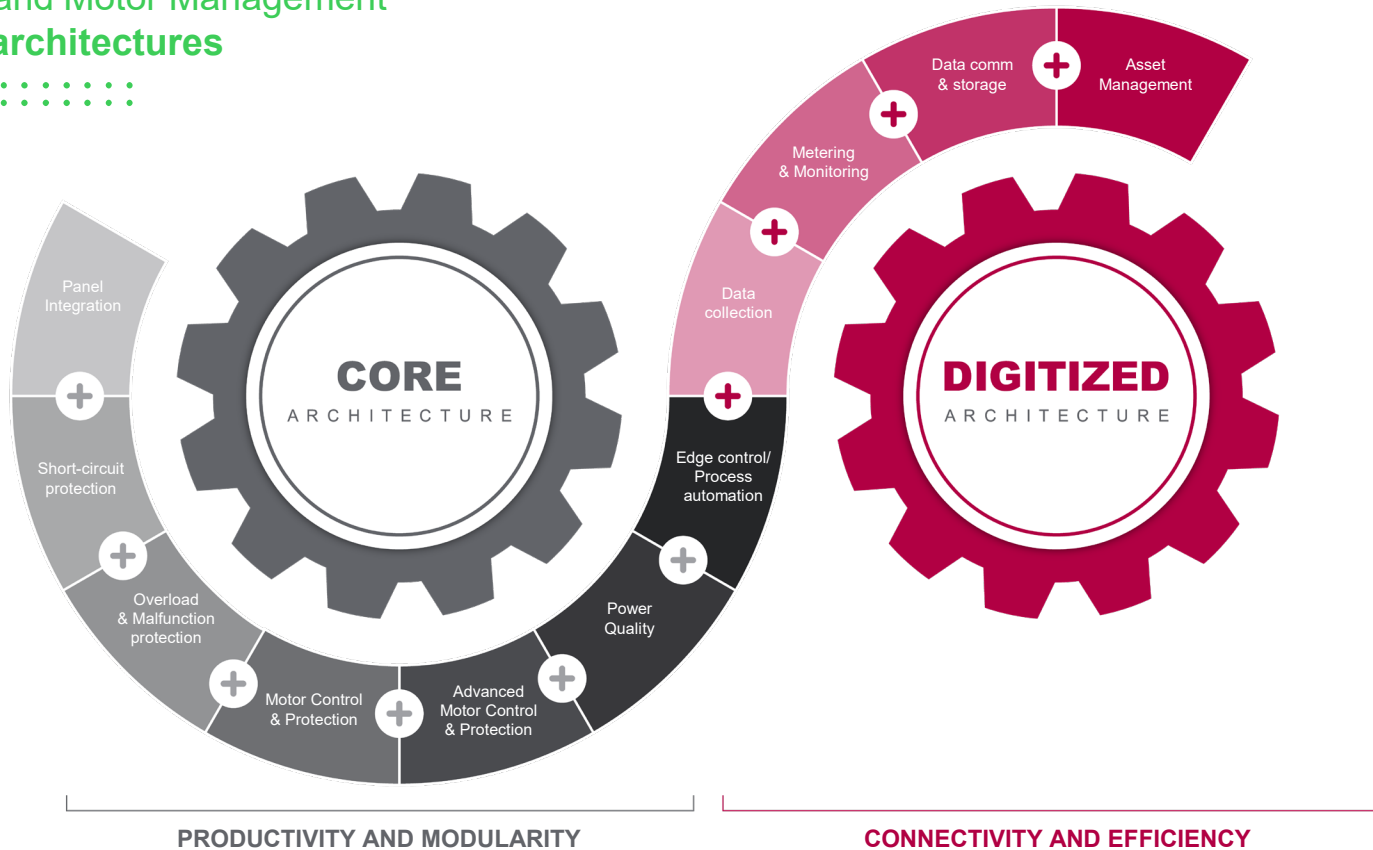
ARCHITECTURE

CONNECTIVITY and EFFICIENCY

LV

MV

Understand Motor Management typical architectures





CORE

ARCHITECTURE

Select voltage level

Move towards the "Digitized" architecture (or go back to "Core")

| VOLTAGE | ARCHITECTURE | FILTERING BY STARTING MODE |
|---------|-------------------------|----------------------------|
| MV | CORE DIGITIZED | All DOL SS & Y-D VSD |

Process link

DISPLAY PRODUCTS
OFF ON



Click on the link to get further information about the product on se.com

Filter architecture according to the desired starting mode

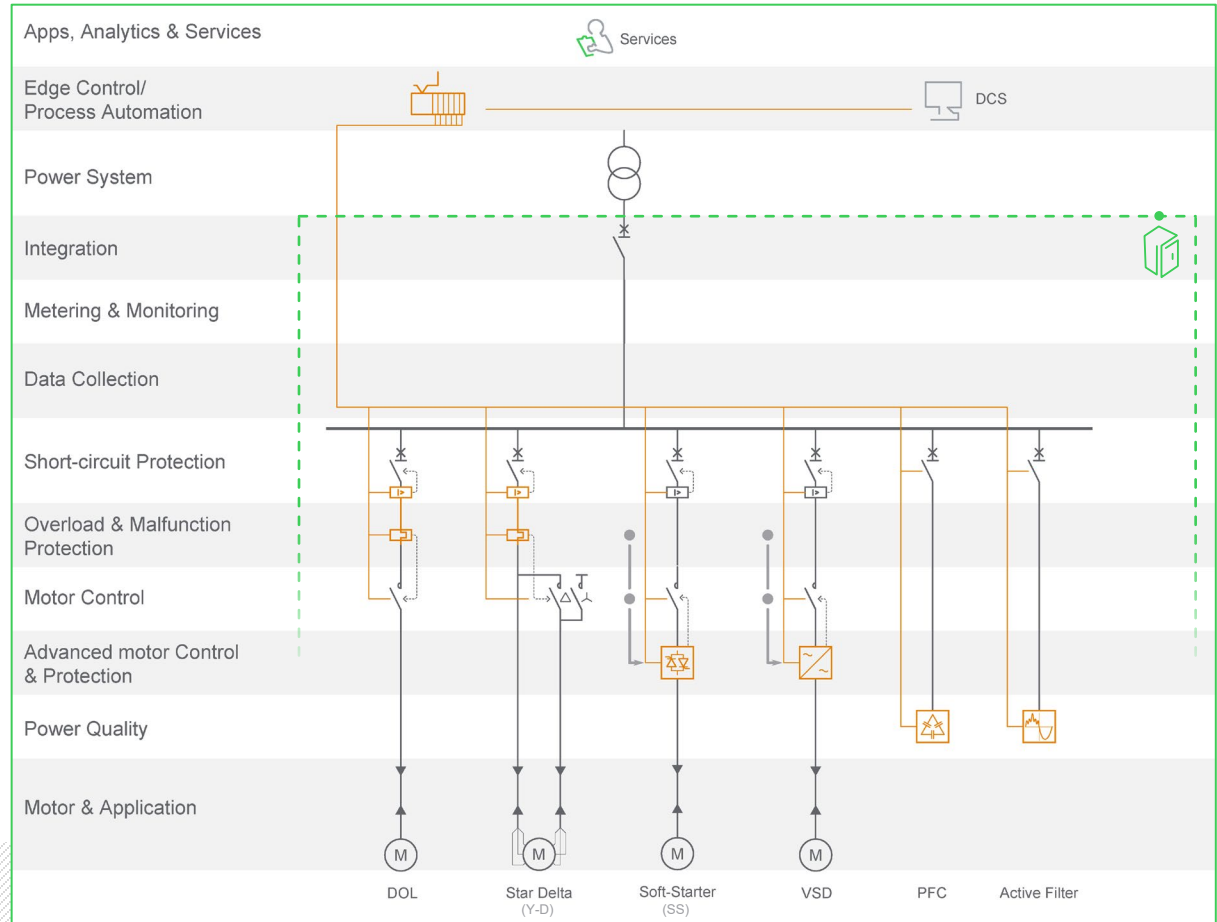
Display/Hide all products related to the current architecture

CORE

ARCHITECTURE

| VOLTAGE | ARCHITECTURE | FILTERING BY STARTING MODE |
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| MV LV | CORE DIGITIZED | All DOL SS & Y-D VSD |

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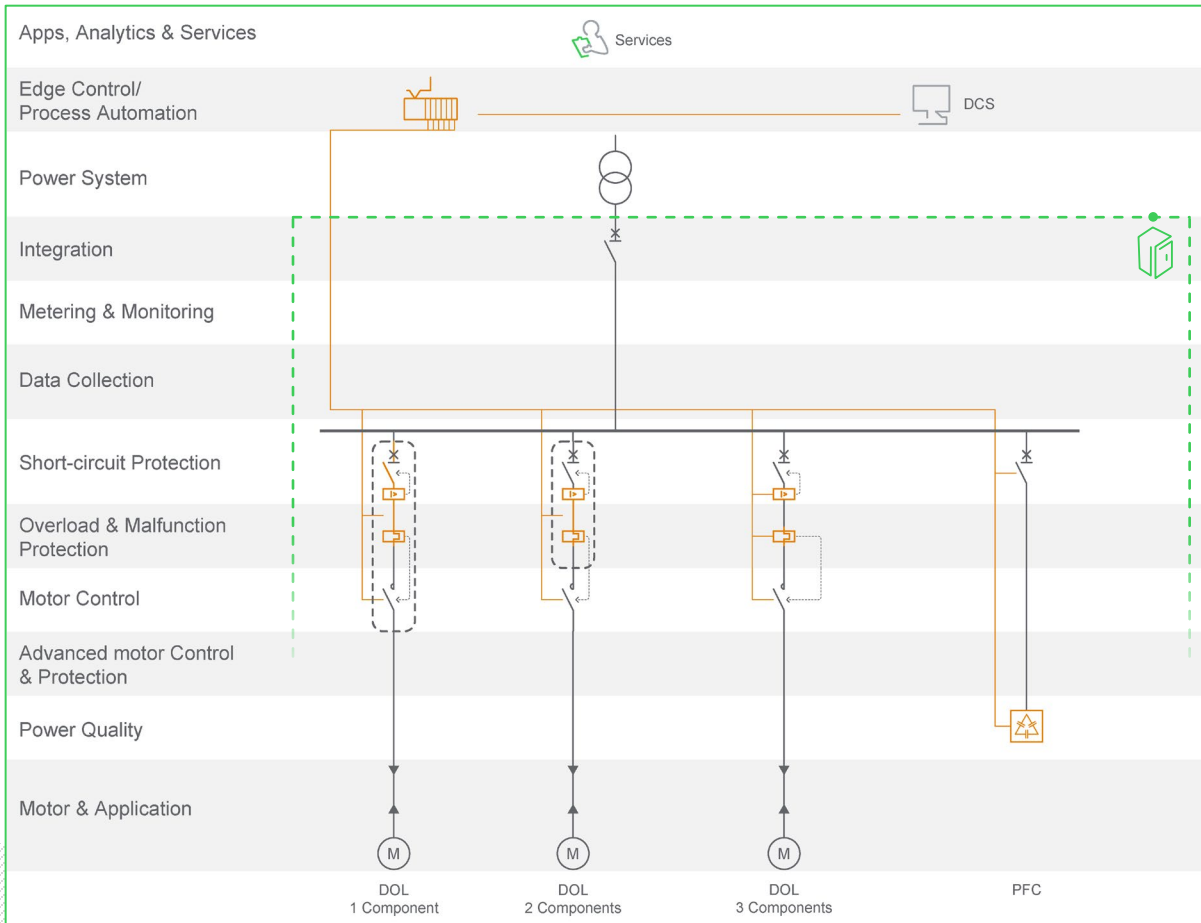


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CORE

ARCHITECTURE



| | | | | | | |
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CORE

ARCHITECTURE

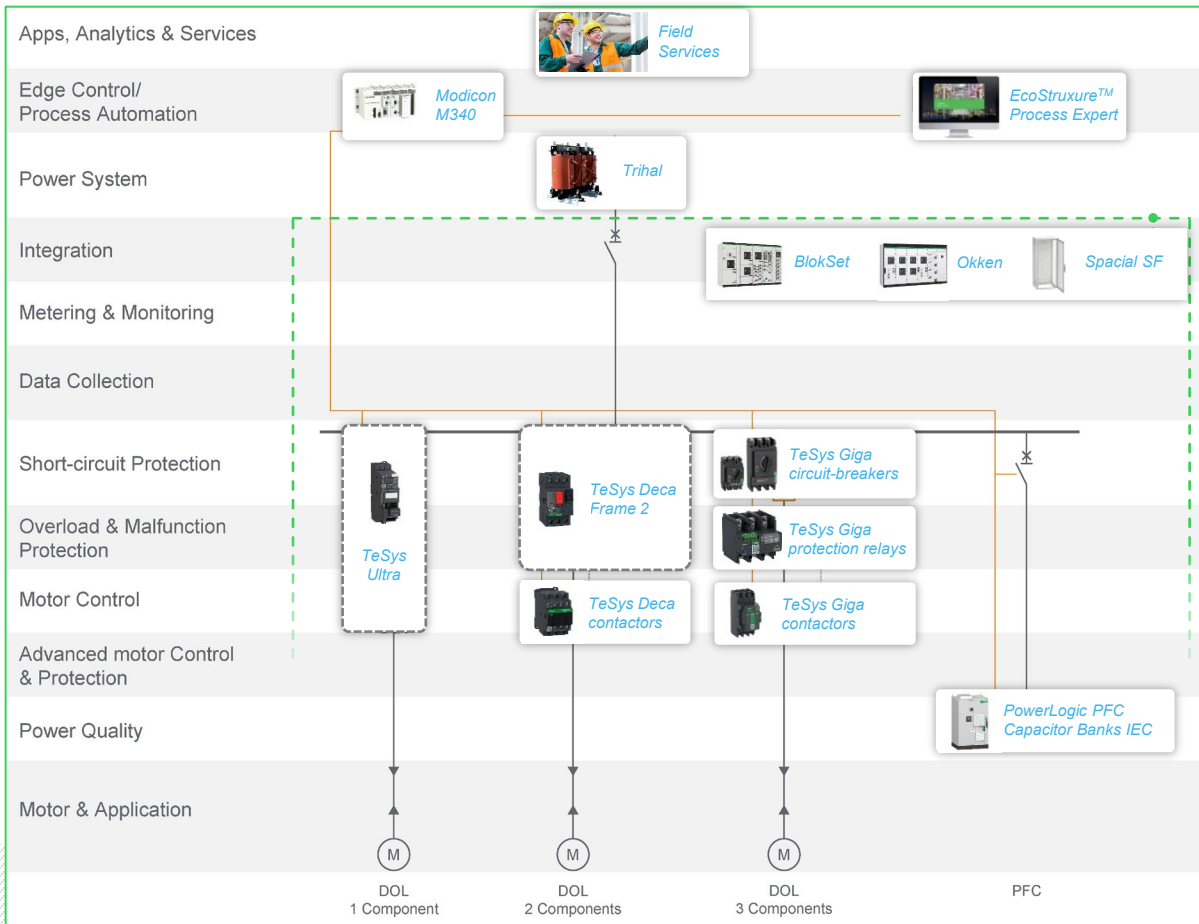
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| MV | LV | CORE | DIGITIZED | All | DOL | SS & Y-D VSD |

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Apps, Analytics & Services



Edge Control / Process automation



Power System



Integration



Metering & Monitoring

Data Collection

Short-circuit Protection



Overload & Malfunction Protection



Motor Control



Advanced motor control & Protection



Power Quality



1 Component



2 Components



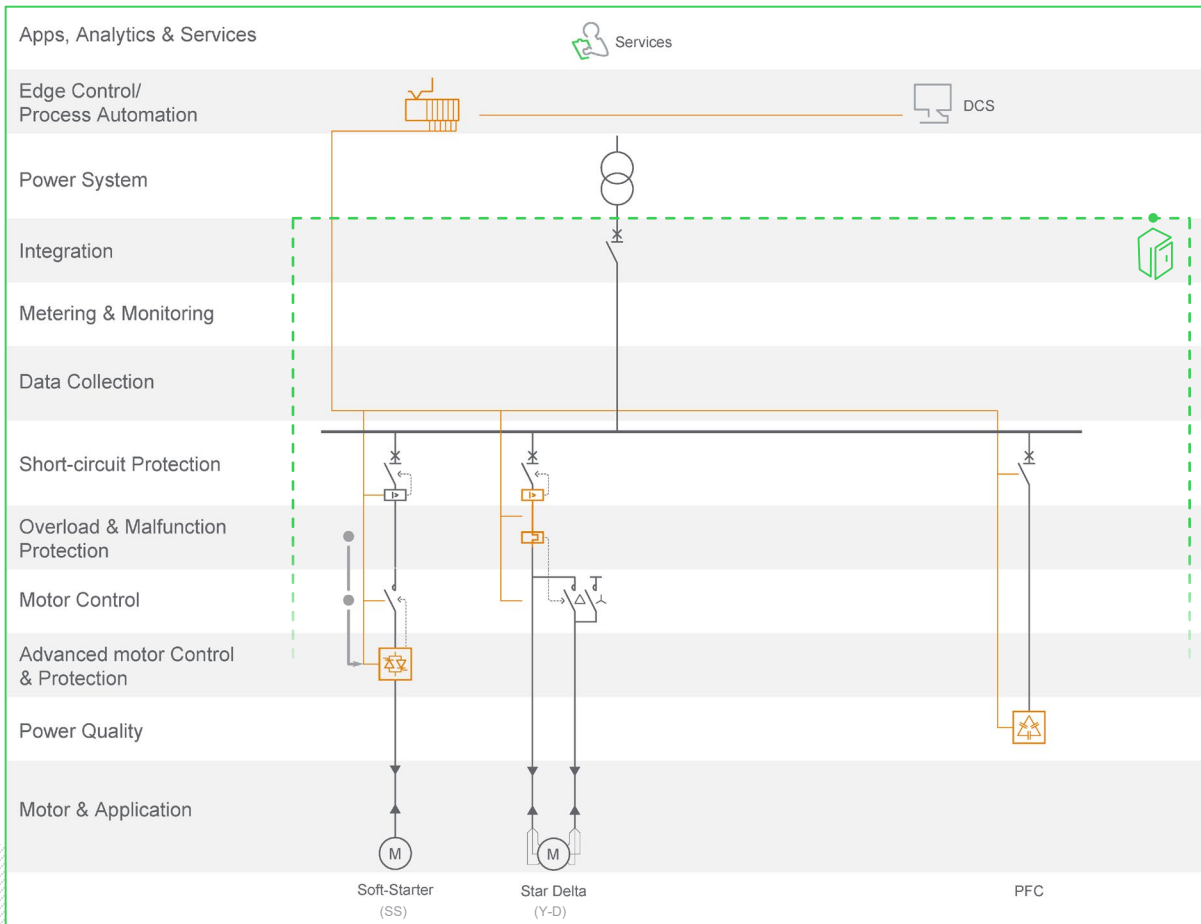
3 Components



All architectures

CORE

ARCHITECTURE



| VOLTAGE | ARCHITECTURE | FILTERING BY STARTING MODE |
|-----------|--------------|----------------------------|
| MV | CORE | All |
| LV | DIGITIZED | DOL |
| | | SS & Y-D |
| | | VSD |

DISPLAY PRODUCTS

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— Process link



CORE

ARCHITECTURE

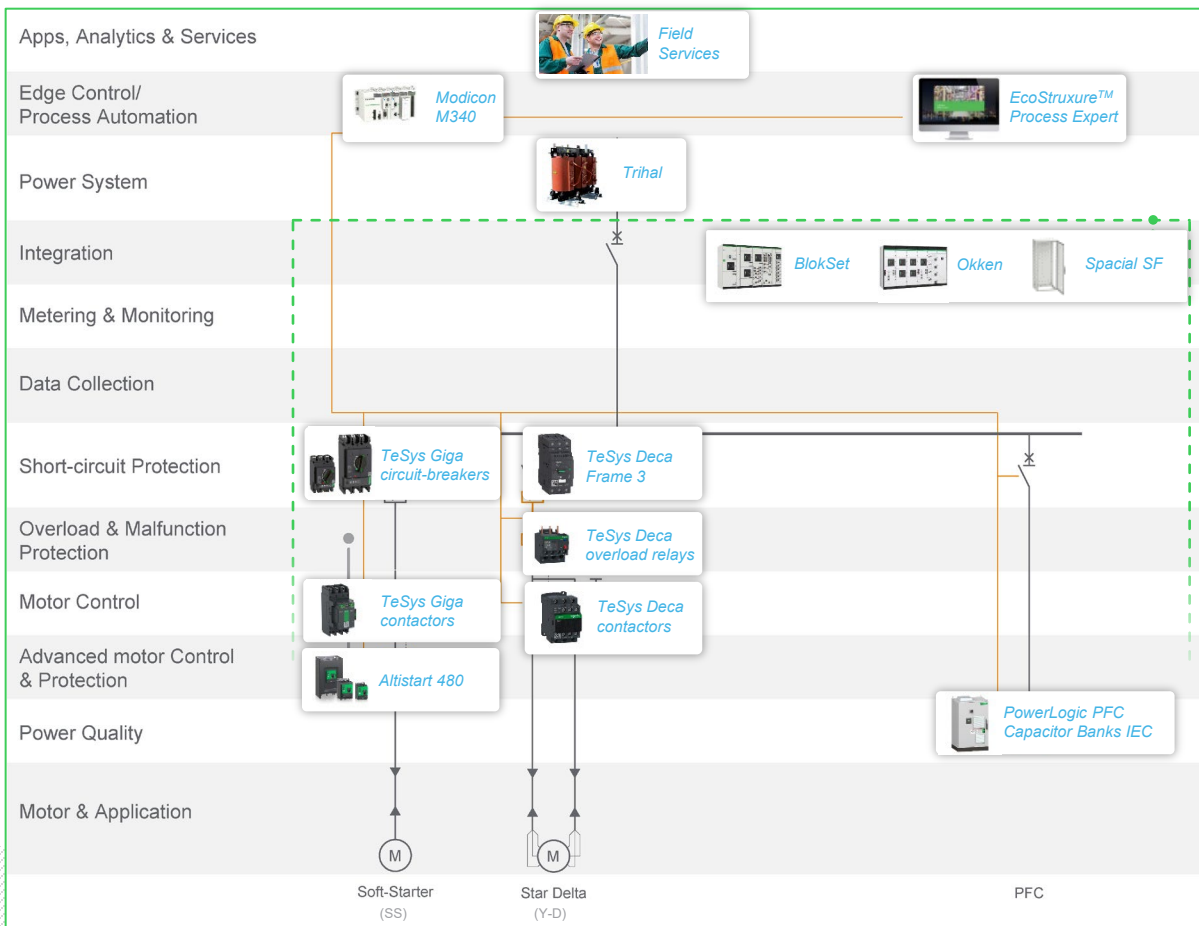
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Apps, Analytics & Services



Edge Control / Process automation



Power System



Integration



Metering & Monitoring

Data Collection

Short-circuit Protection



Overload & Malfunction Protection



Motor Control



Advanced motor control & Protection

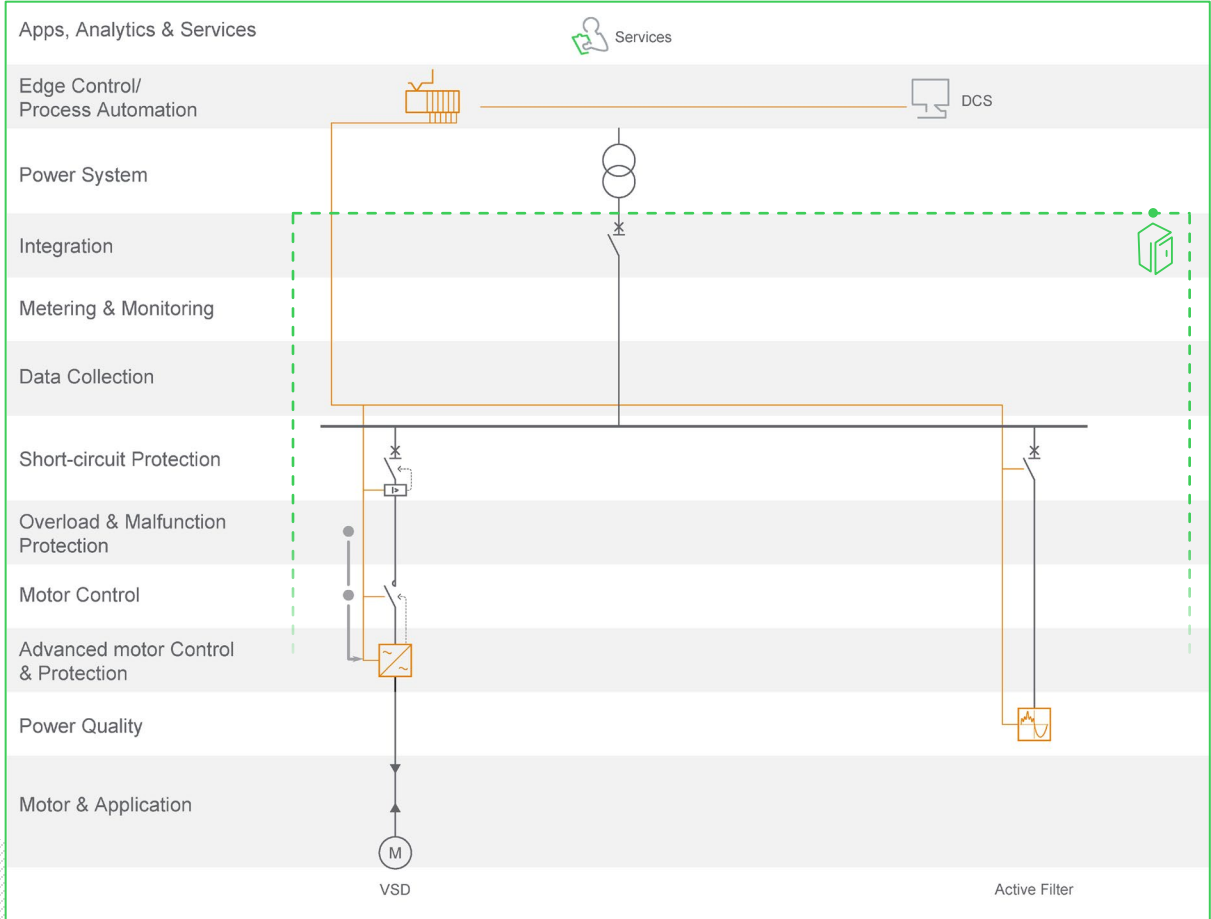


Power Quality



CORE

ARCHITECTURE



| VOLTAGE | ARCHITECTURE | FILTERING BY STARTING MODE |
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| MV LV | CORE DIGITIZED | All DOL SS & Y-D VSD |

— Process link

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CORE

ARCHITECTURE

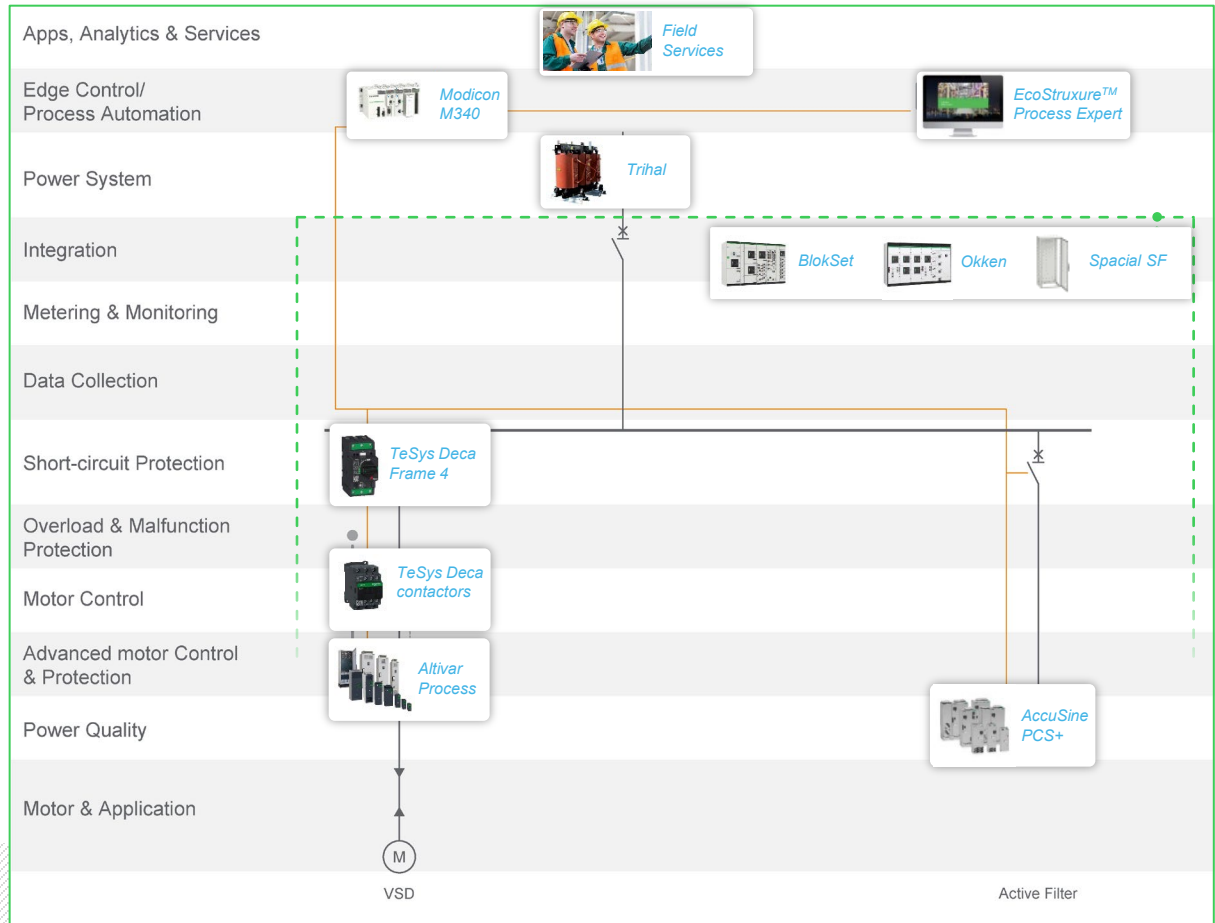
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Active Filter



Apps, Analytics & Services



Field Services

Edge Control / Process automation



Modicon M340



EcoStruxure™ Process Expert

Power System



Trihal



Minera MP

Integration



BlokSet



Okken



Spacial SF

Metering & Monitoring

Data Collection

Short-circuit Protection



TeSys Deca Frame 4



TeSys Deca Frame 2



TeSys Deca Frame 3



Compact NS



TeSys Giga circuit-breakers

Overload & Malfunction Protection

Motor Control



TeSys Deca contactors



TeSys Giga contactors

Advanced motor control & Protection



Altivar Process

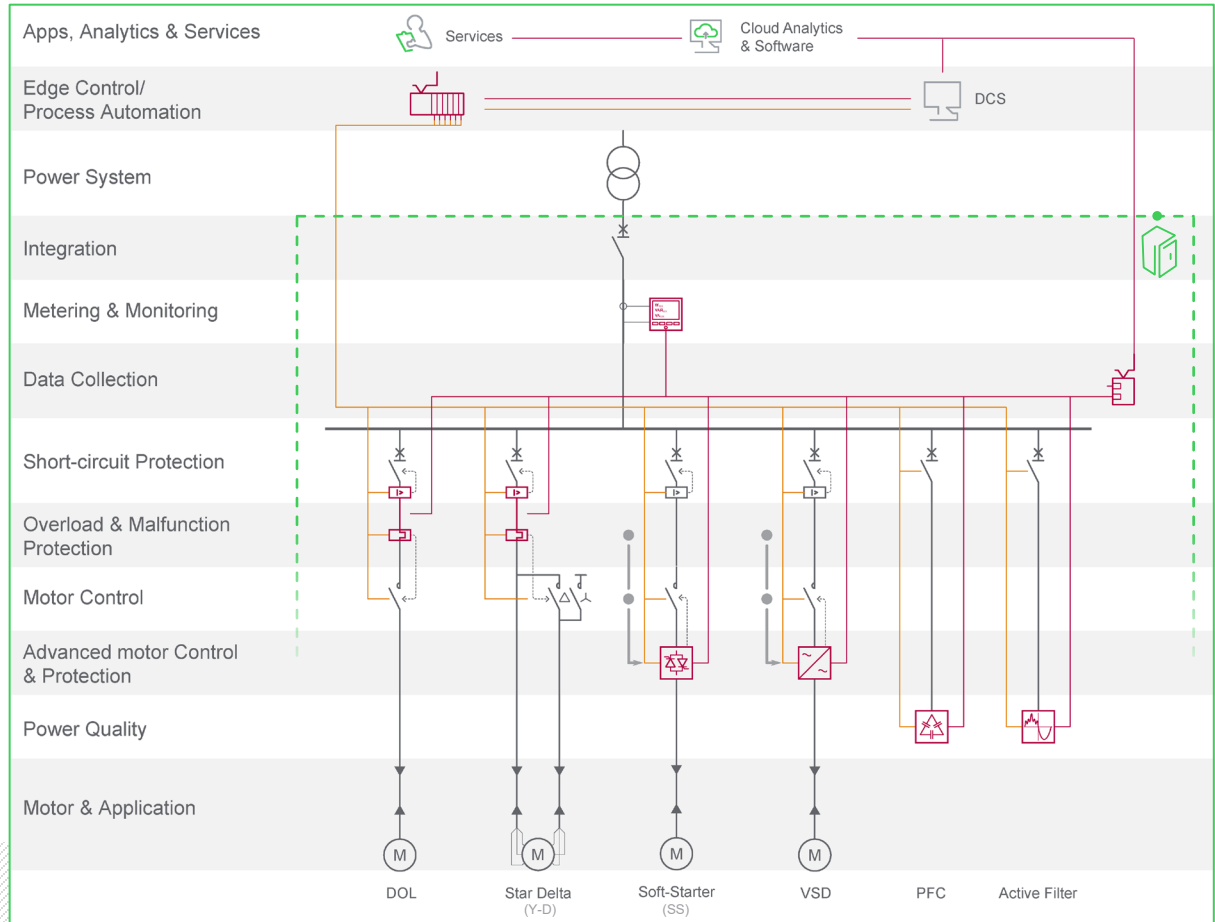
Power Quality



AccuSine PCS+



DIGITIZED ARCHITECTURE



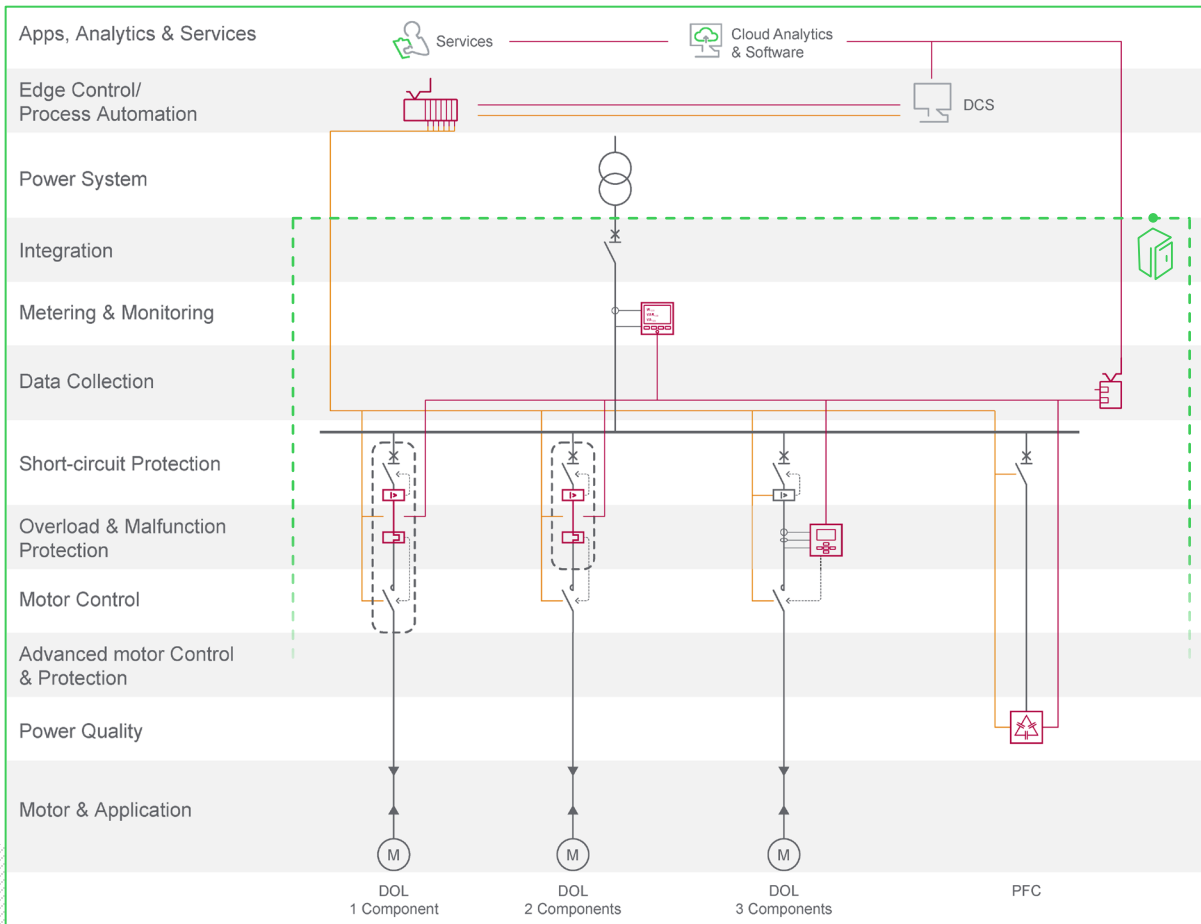
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DIGITIZED ARCHITECTURE



| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | |
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DOL 1 Component DOL 2 Components DOL 3 Components PFC



Get the basics

Architectures

Know & Understand

Discover benefits for Partners

Design a solution

Go further

DIGITIZED ARCHITECTURE

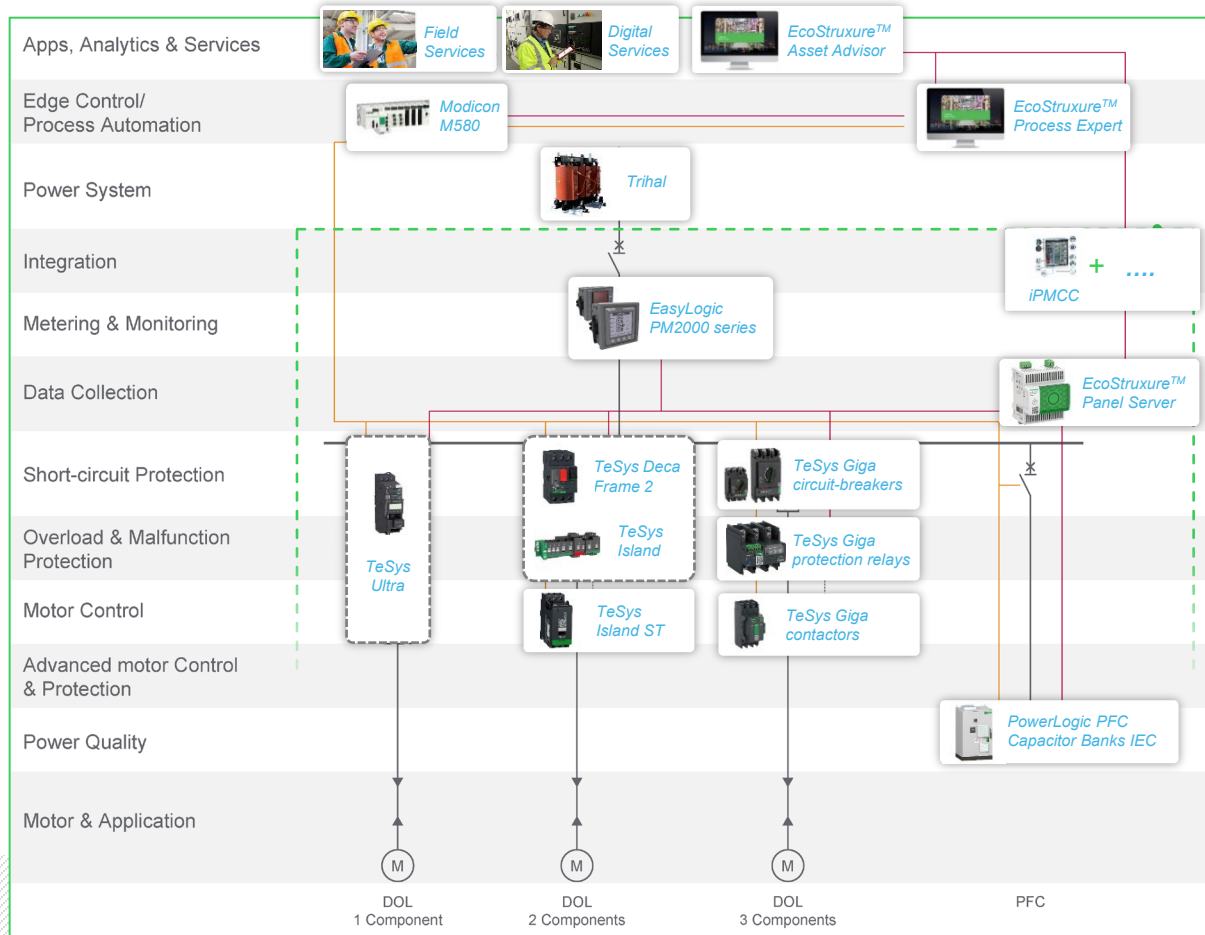
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DOL 1 Component

DOL 2 Components

DOL 3 Components

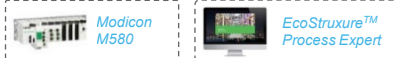
PFC



Apps, Analytics & Services



Edge Control / Process automation



Power System



Integration



Metering & Monitoring



Data Collection



Short-circuit Protection



Overload & Malfunction Protection



Motor Control



Advanced motor control & Protection

Power Quality



1 Component



2 Components



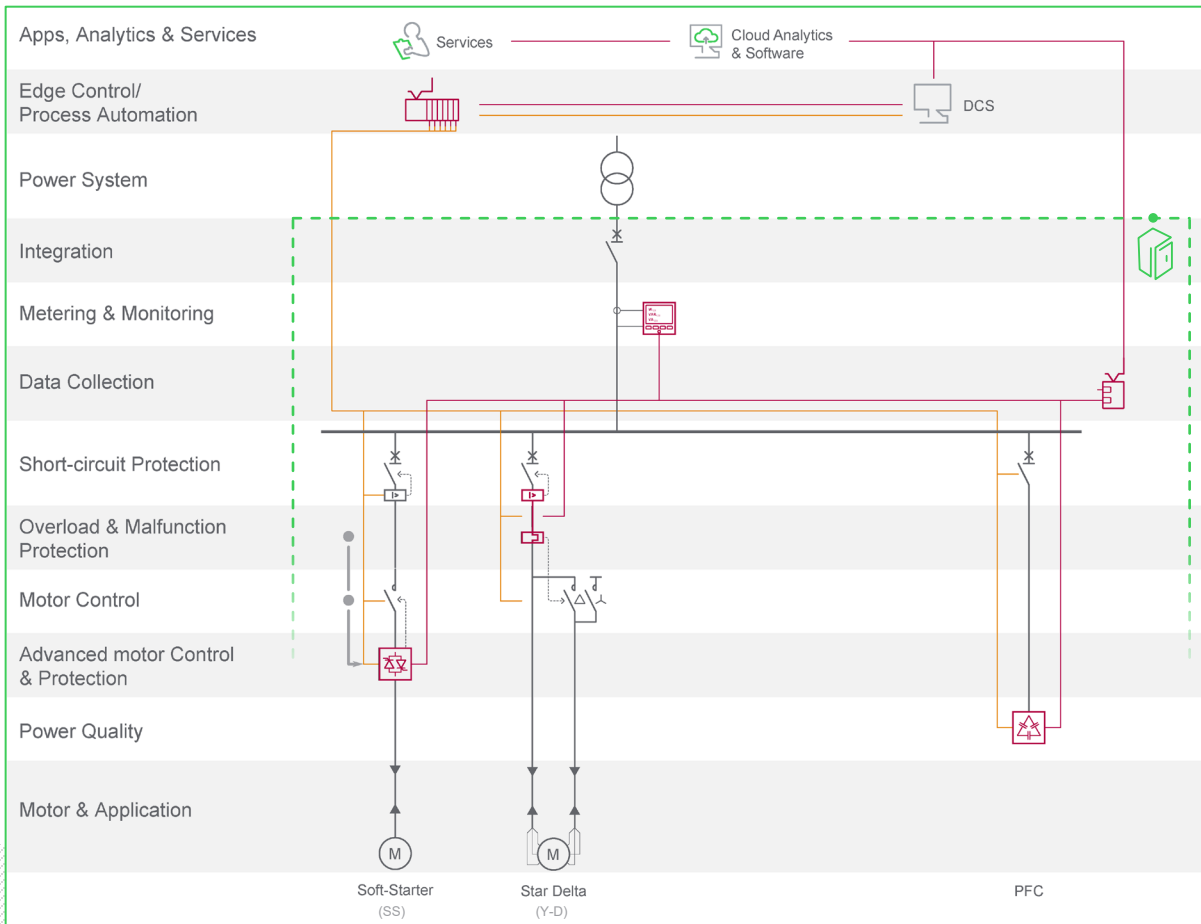
3 Components



All architectures



DIGITIZED ARCHITECTURE



| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | | |
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| MV | LV | CORE | DIGITIZED | All | DOL | SS & Y-D | VSD |

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DIGITIZED ARCHITECTURE

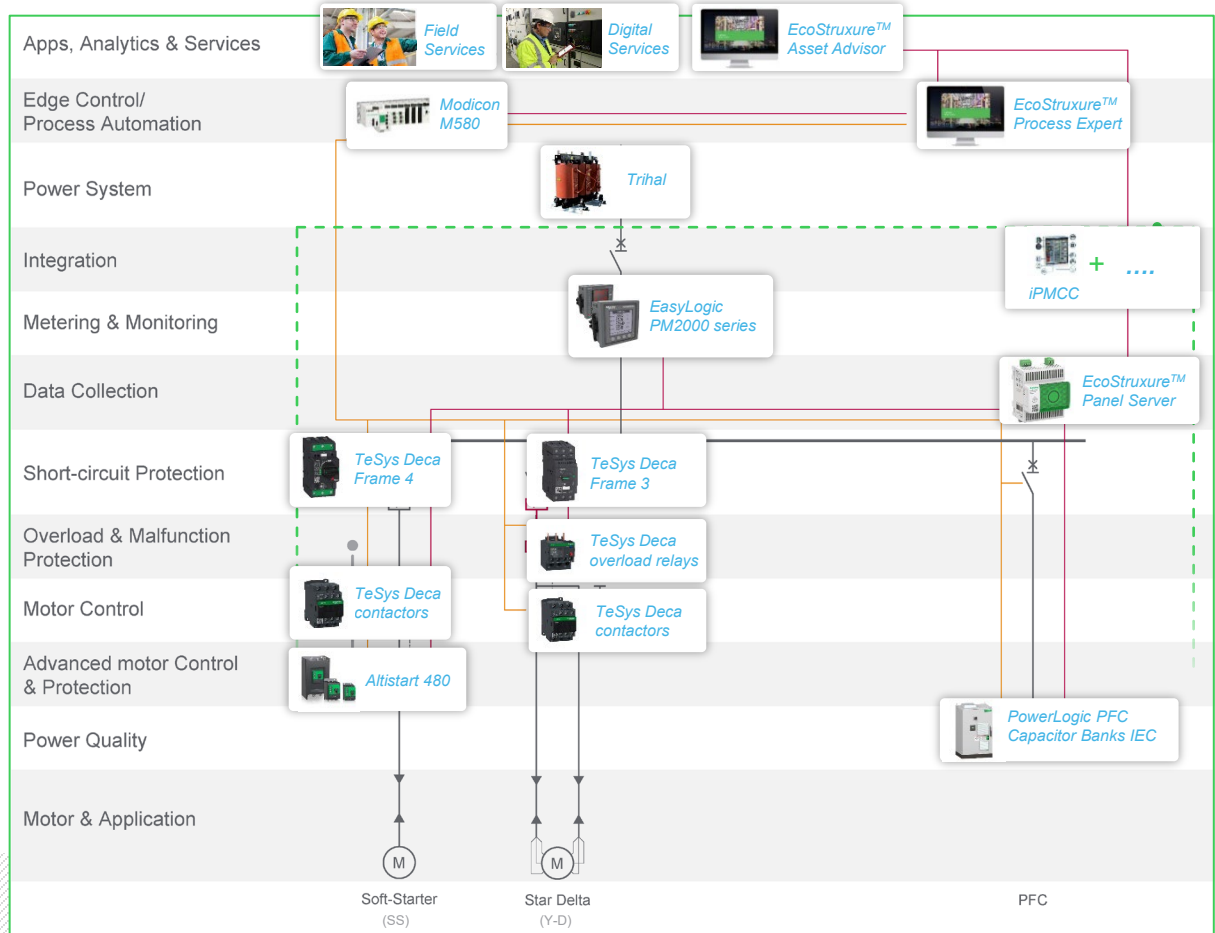
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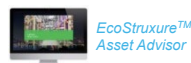
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Apps, Analytics & Services



Edge Control / Process automation



Power System



Integration



Metering & Monitoring



Data Collection



Short-circuit Protection



Overload & Malfunction Protection



Motor Control



Advanced motor control & Protection

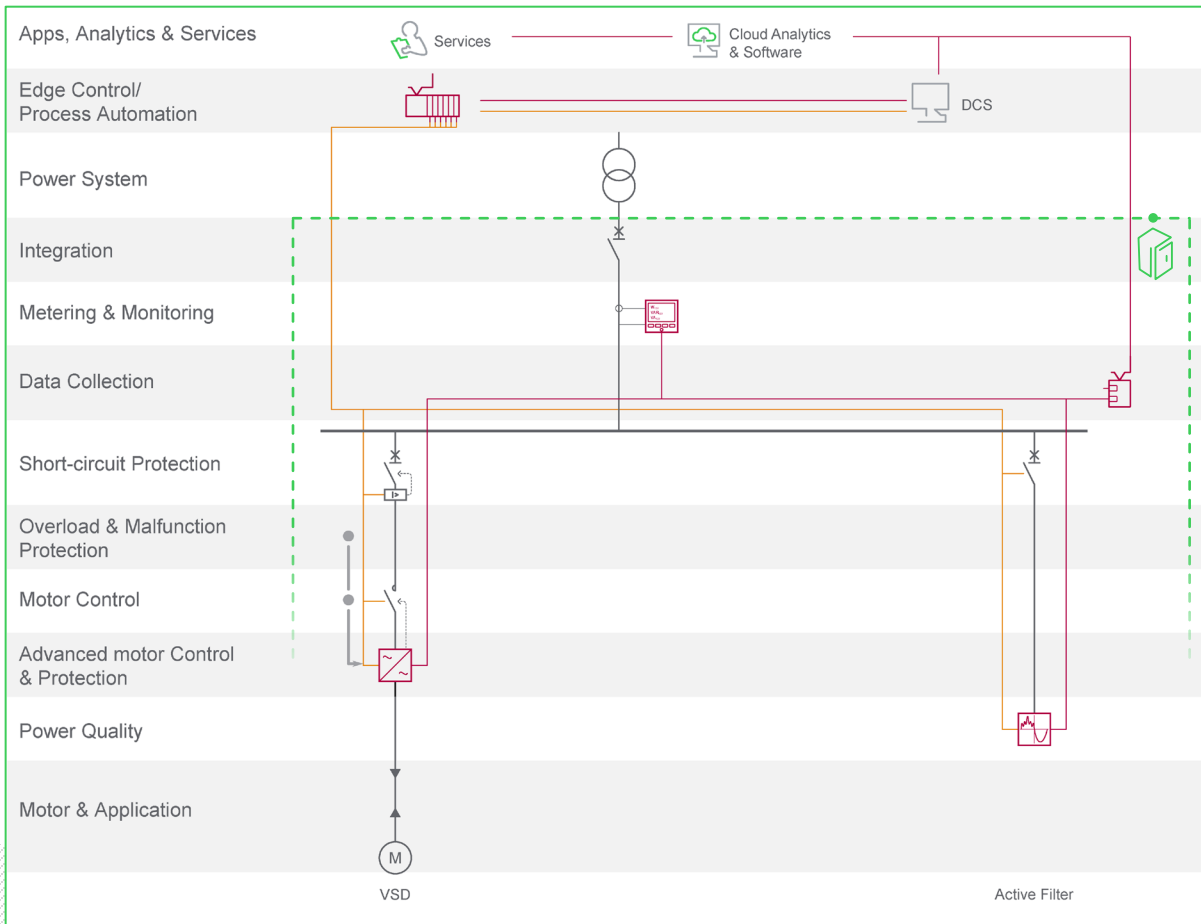


Power Quality



For Star Delta (Y-D) only

DIGITIZED ARCHITECTURE



| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | | |
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DIGITIZED ARCHITECTURE

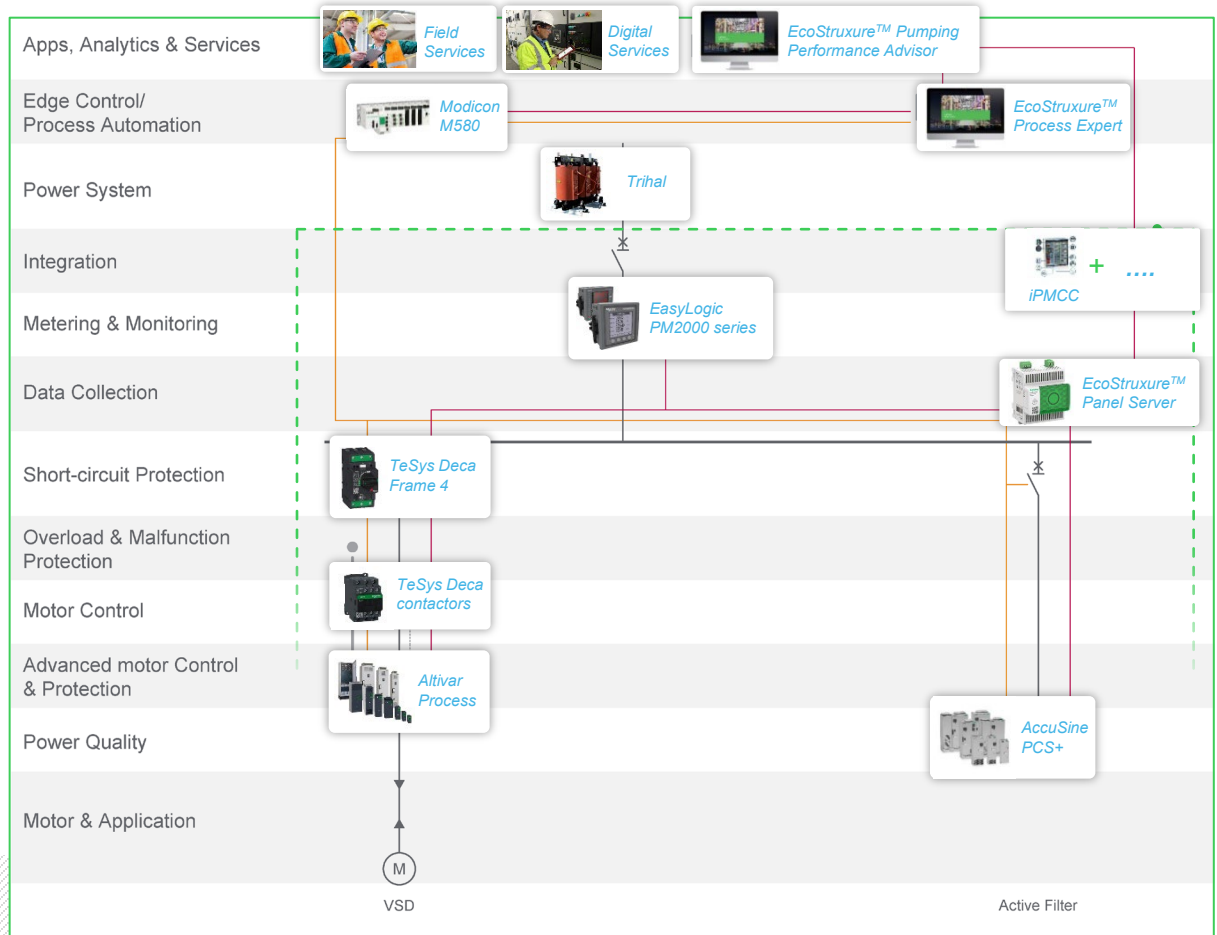
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Apps, Analytics & Services



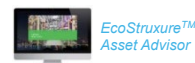
Field Services



Digital Services



EcoStruxure™ Pumping Performance Advisor



EcoStruxure™ Asset Advisor

Edge Control / Process automation



Modicon M580



EcoStruxure™ Process Expert

Power System



Trihal



Minera MP

Integration



IPMCC



BlokSet



Okken



Spacial SF

Metering & Monitoring



EasyLogic PM2000 series



PowerLogic PM5000 series

Data Collection



EcoStruxure™ Panel Server

Short-circuit Protection



TeSys Deca Frame 4



TeSys Deca Frame 2



TeSys Deca Frame 3



Compact NS



TeSys Giga circuit-breakers

Overload & Malfunction Protection

Motor Control



TeSys Deca contactors



TeSys Giga contactors

Advanced motor control & Protection



Altivar Process

Power Quality

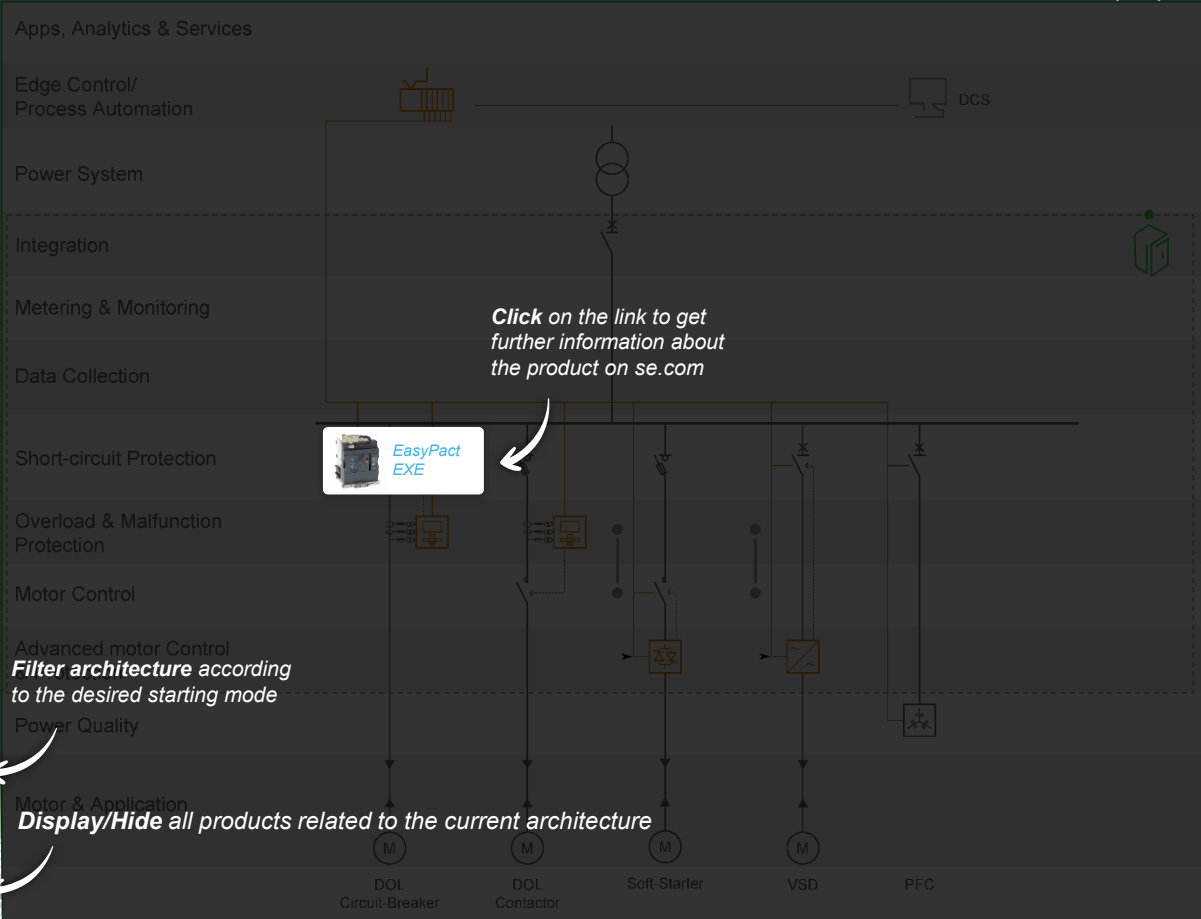


AccuSine PCS+



CORE

ARCHITECTURE



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| MV | LV | CORE | DIGITIZED | All | DOL | SS | VSD |

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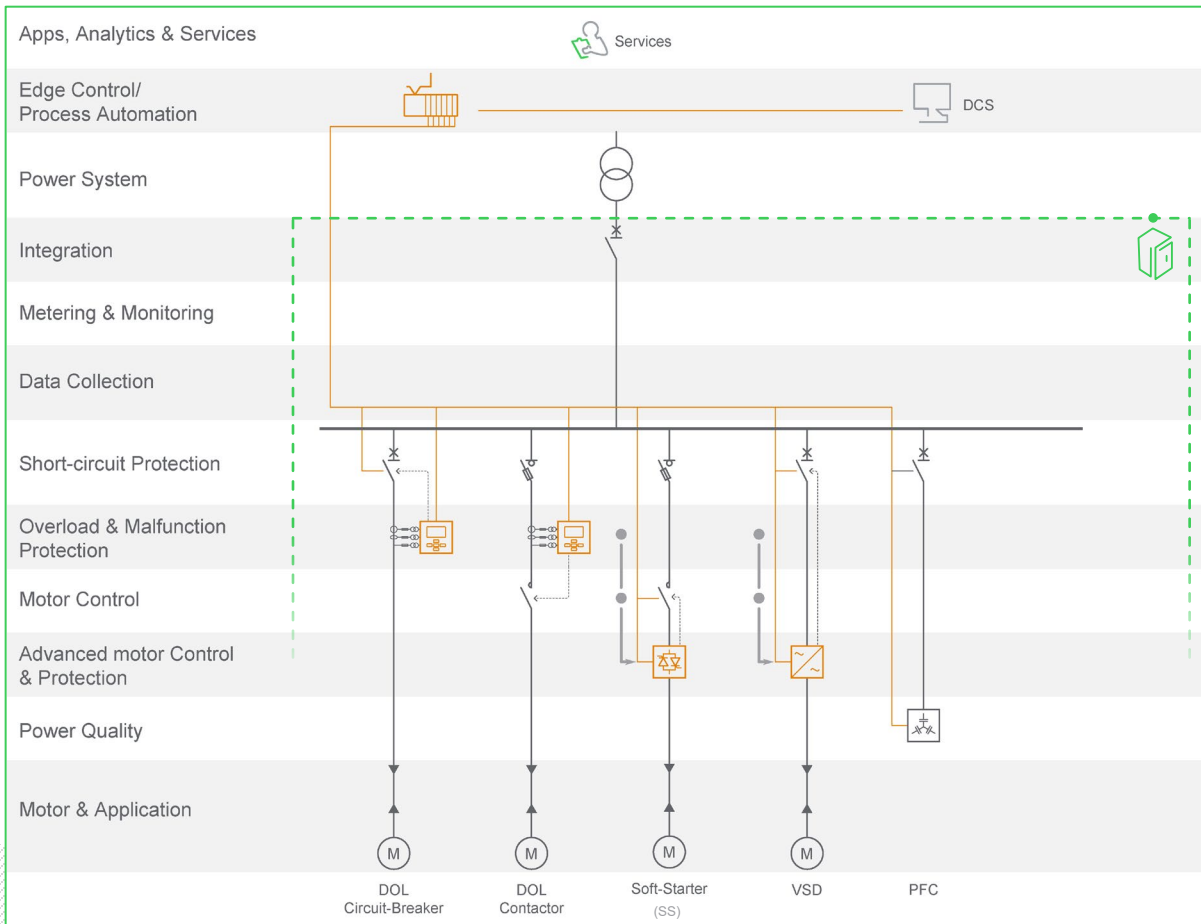
CORE

ARCHITECTURE

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| VOLTAGE | ARCHITECTURE | FILTERING BY STARTING MODE |
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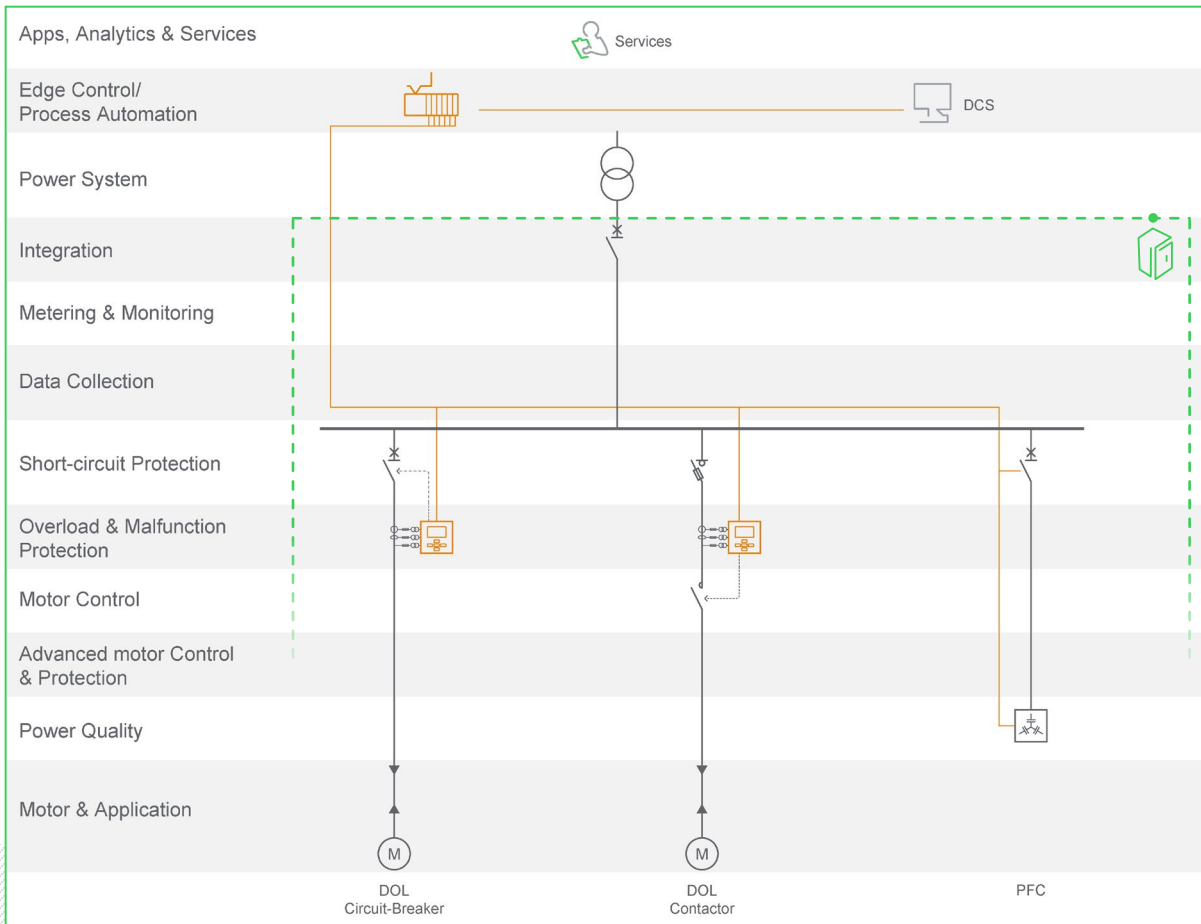
ARCHITECTURE

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CORE

ARCHITECTURE

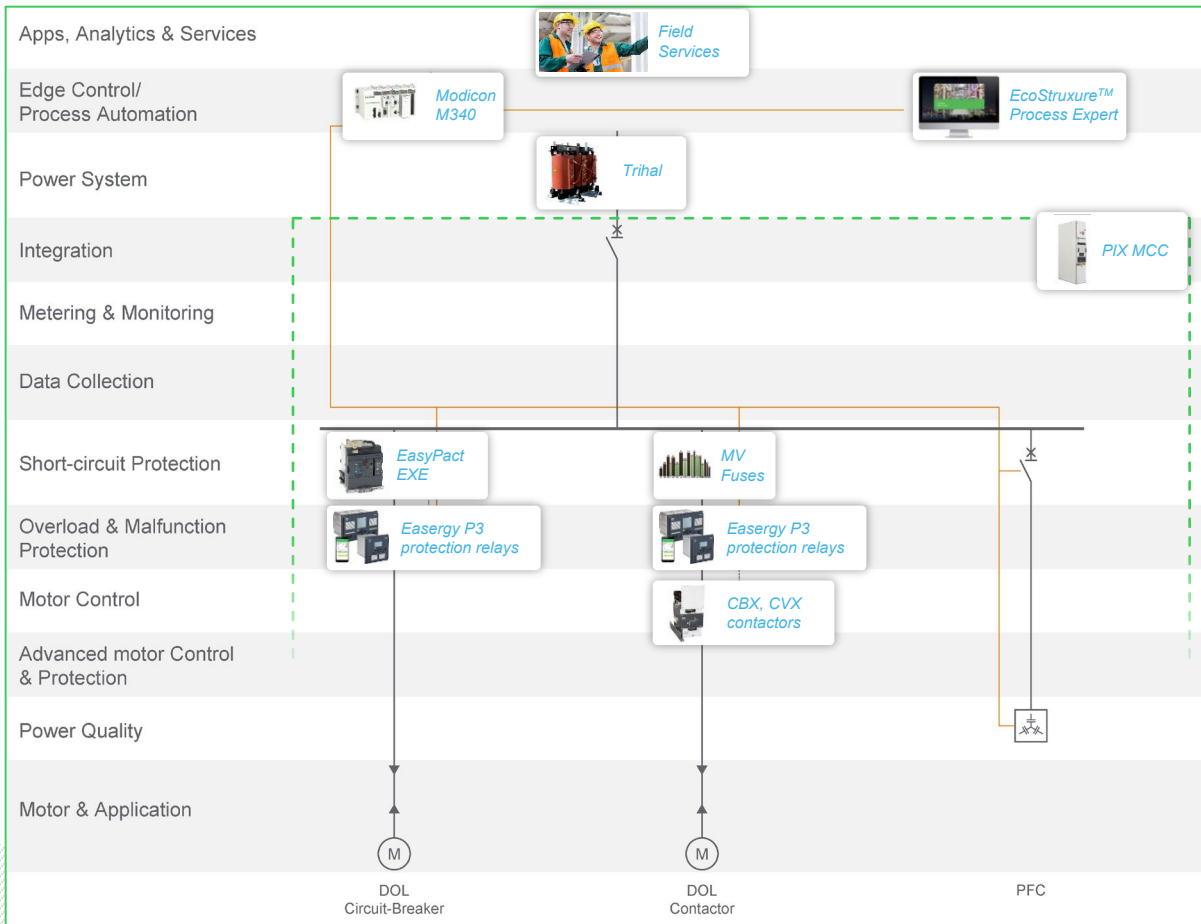
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Apps, Analytics & Services

Field
Services

Edge Control / Process automation

Modicon
M340EcoStruxure™
Process Expert

Power System



Trihal



Minera MP

Integration



PIX MCC



PIX



MC Set

Metering & Monitoring

Data Collection

Short-circuit Protection



EasyPact EXE



MV Fuses

Overload & Malfunction Protection

Easergy P3
protection relaysMICOM
P211

Motor Control

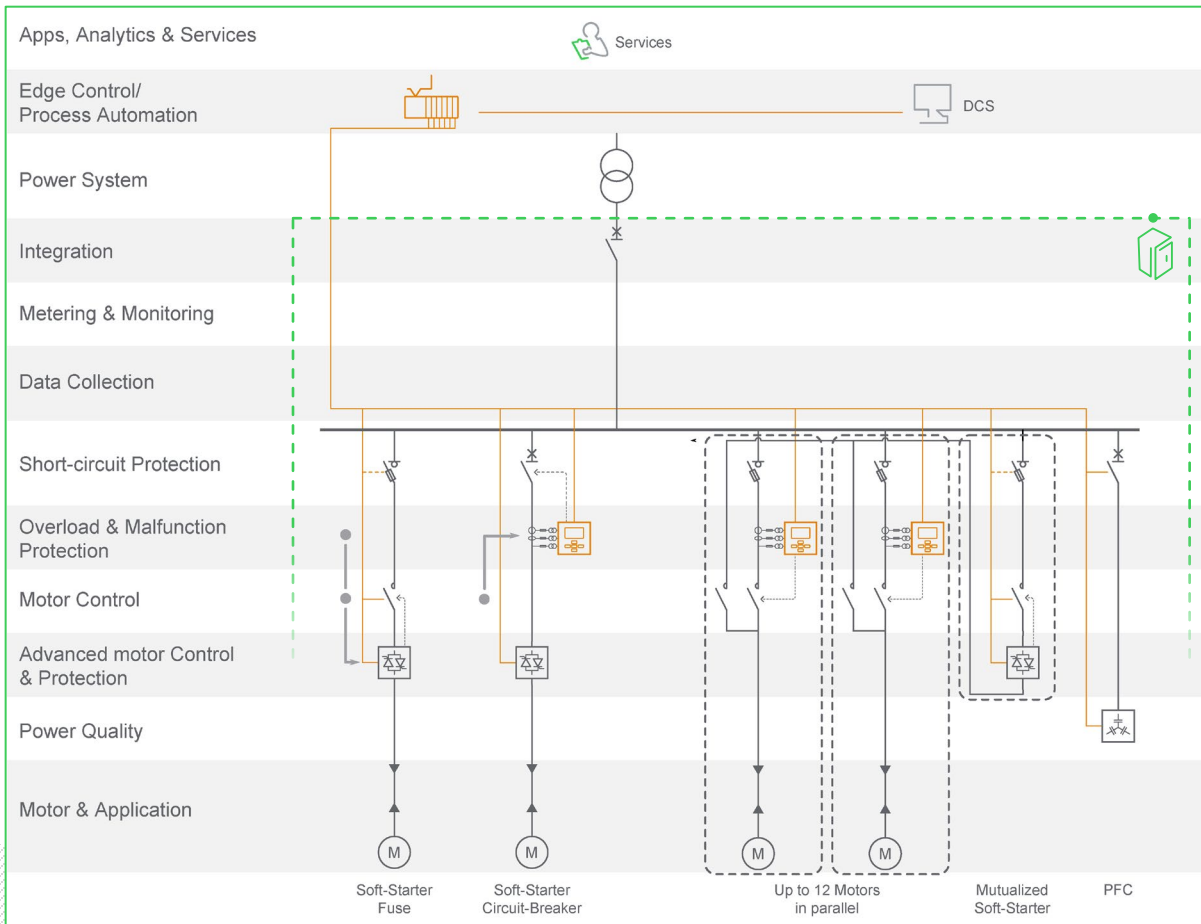
CBX, CVX
contactors

Advanced motor control & Protection

Power Quality

CORE

ARCHITECTURE



| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | | |
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| MV | LV | CORE | DIGITIZED | All | DOL | SS | VSD |

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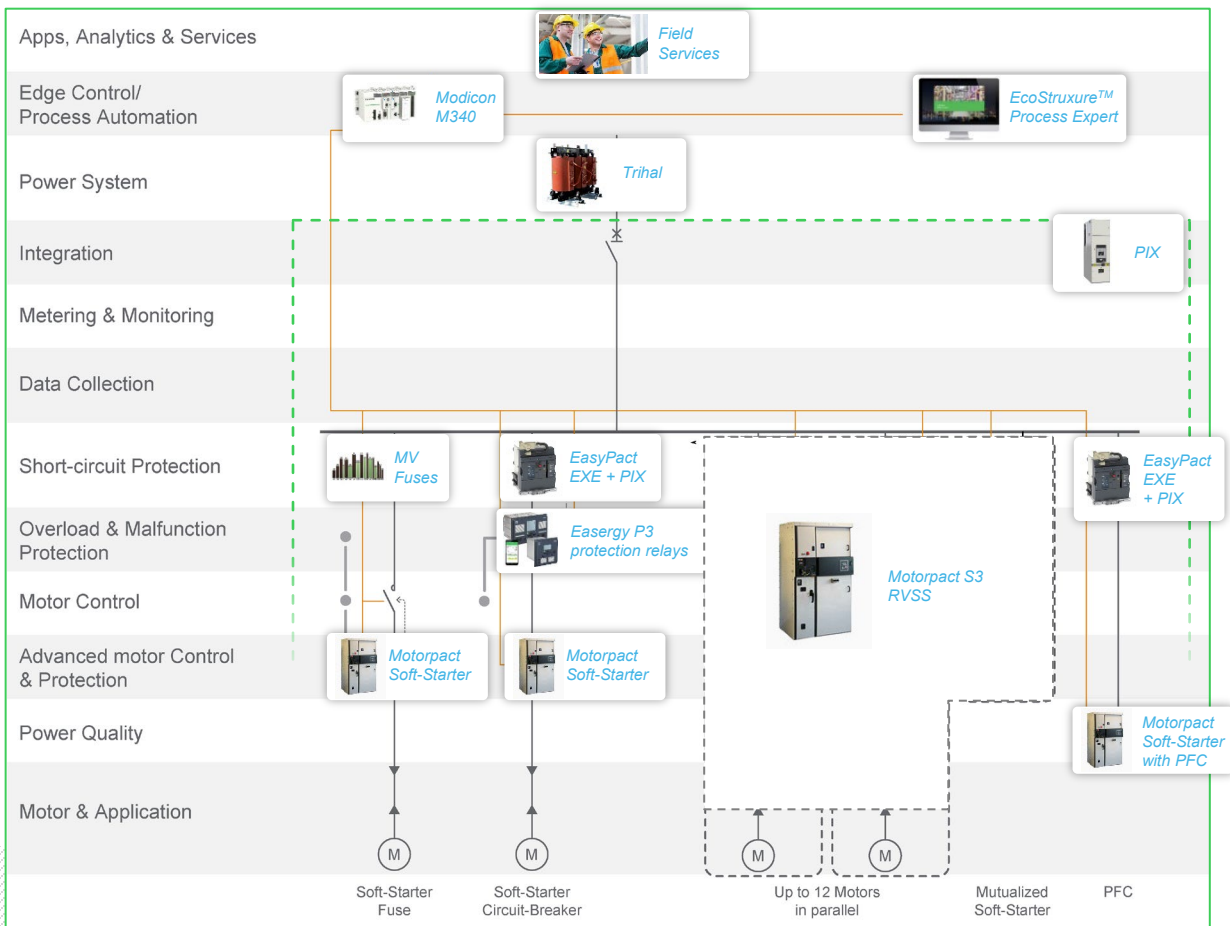
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Apps, Analytics & Services



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Power System



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Overload & Malfunction Protection



Motor Control

Advanced motor control & Protection

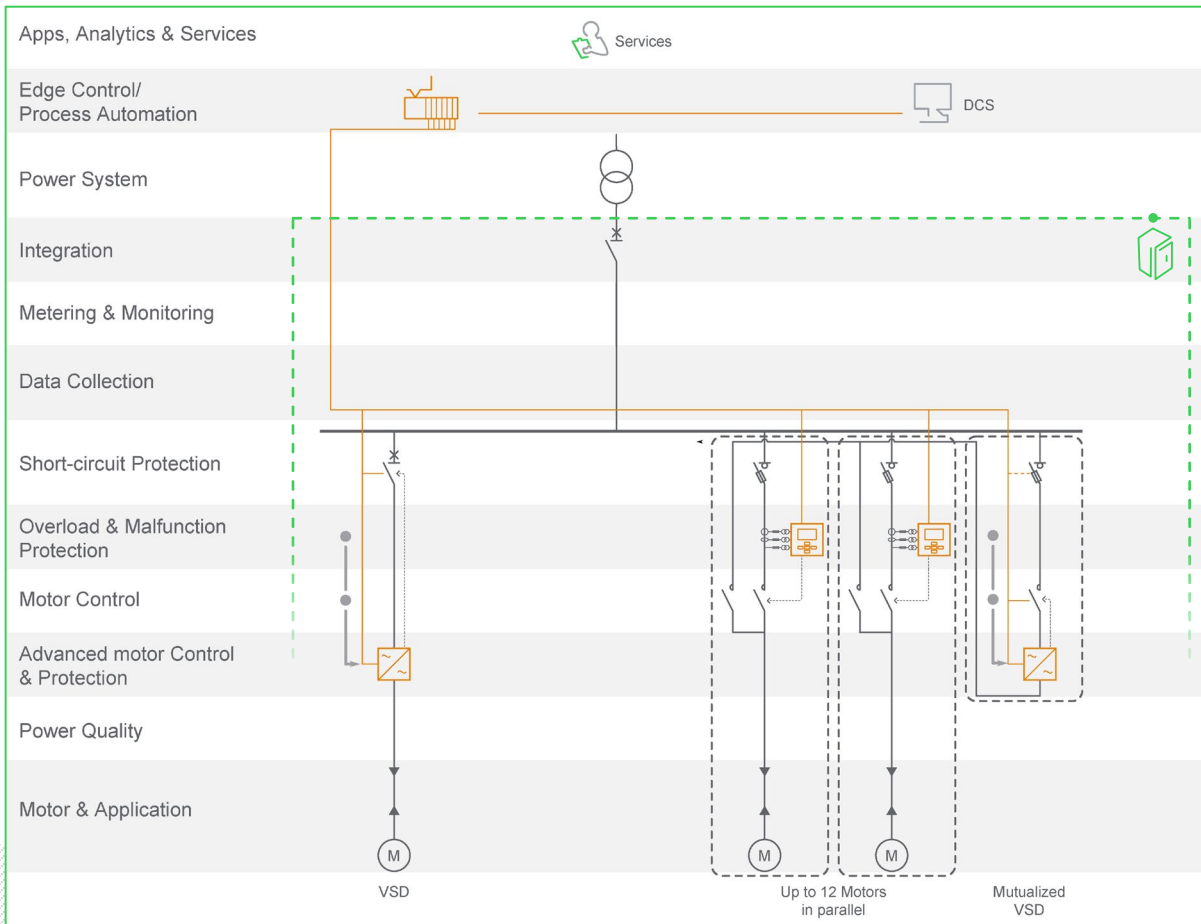


Power Quality



CORE

ARCHITECTURE



| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | | |
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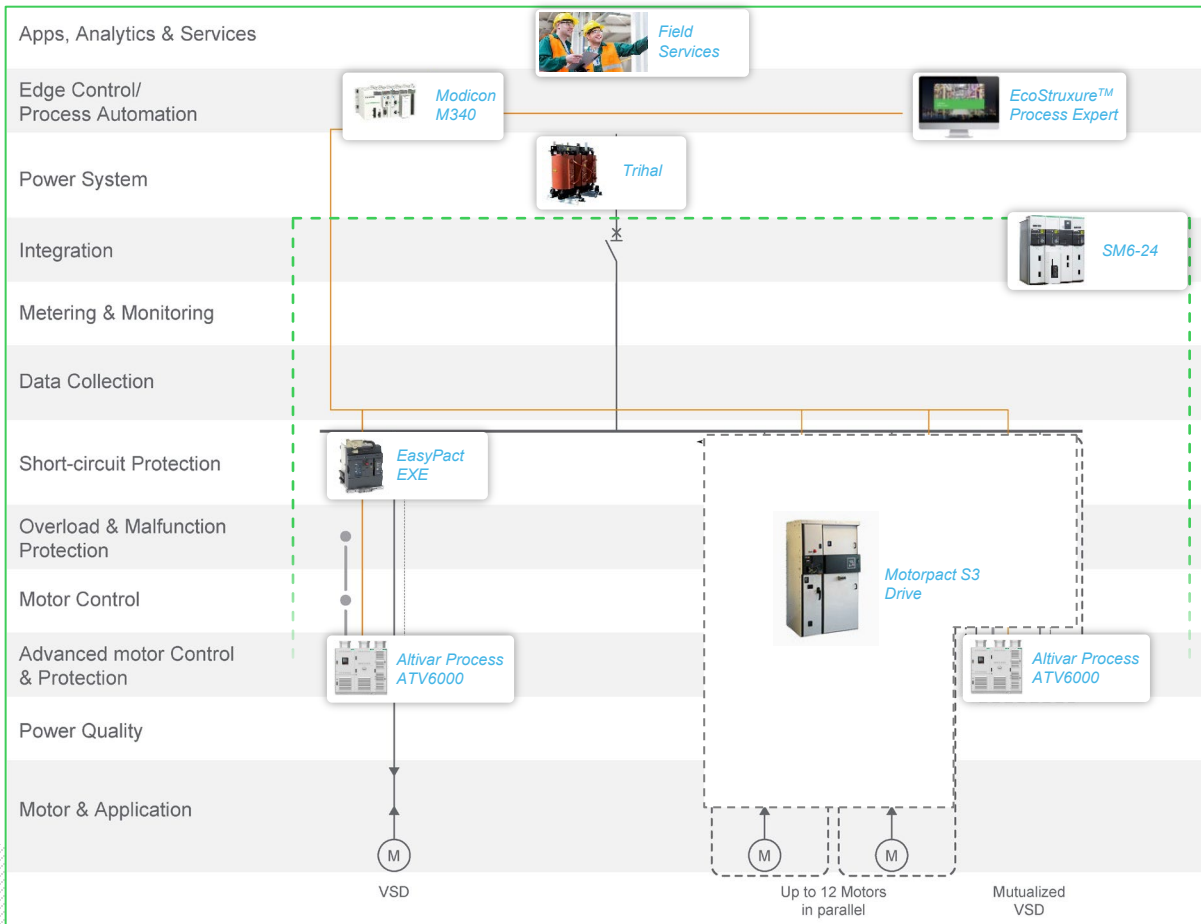
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Apps, Analytics & Services



Field Services

Edge Control / Process automation



Modicon M340



EcoStruxure™ Process Expert

Power System



Trihal



Minera MP

Integration



SM6-24



PIX



MC Set

Metering & Monitoring

Data Collection

Short-circuit Protection



EasyPact EXE



Evolis

Overload & Malfunction Protection

Motor Control

Advanced motor control & Protection



Altivar Process ATV6000

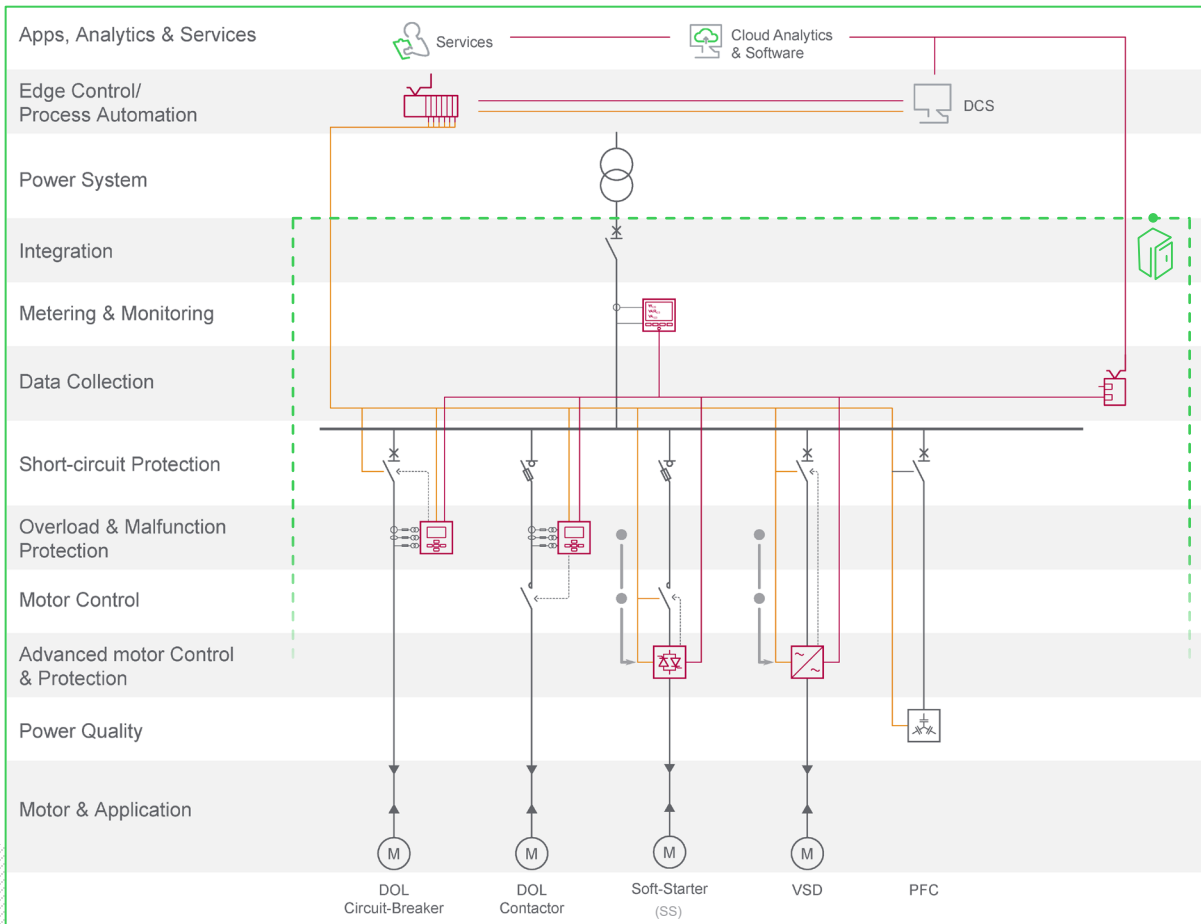


Motorpact S3 Drive

Power Quality



DIGITIZED ARCHITECTURE

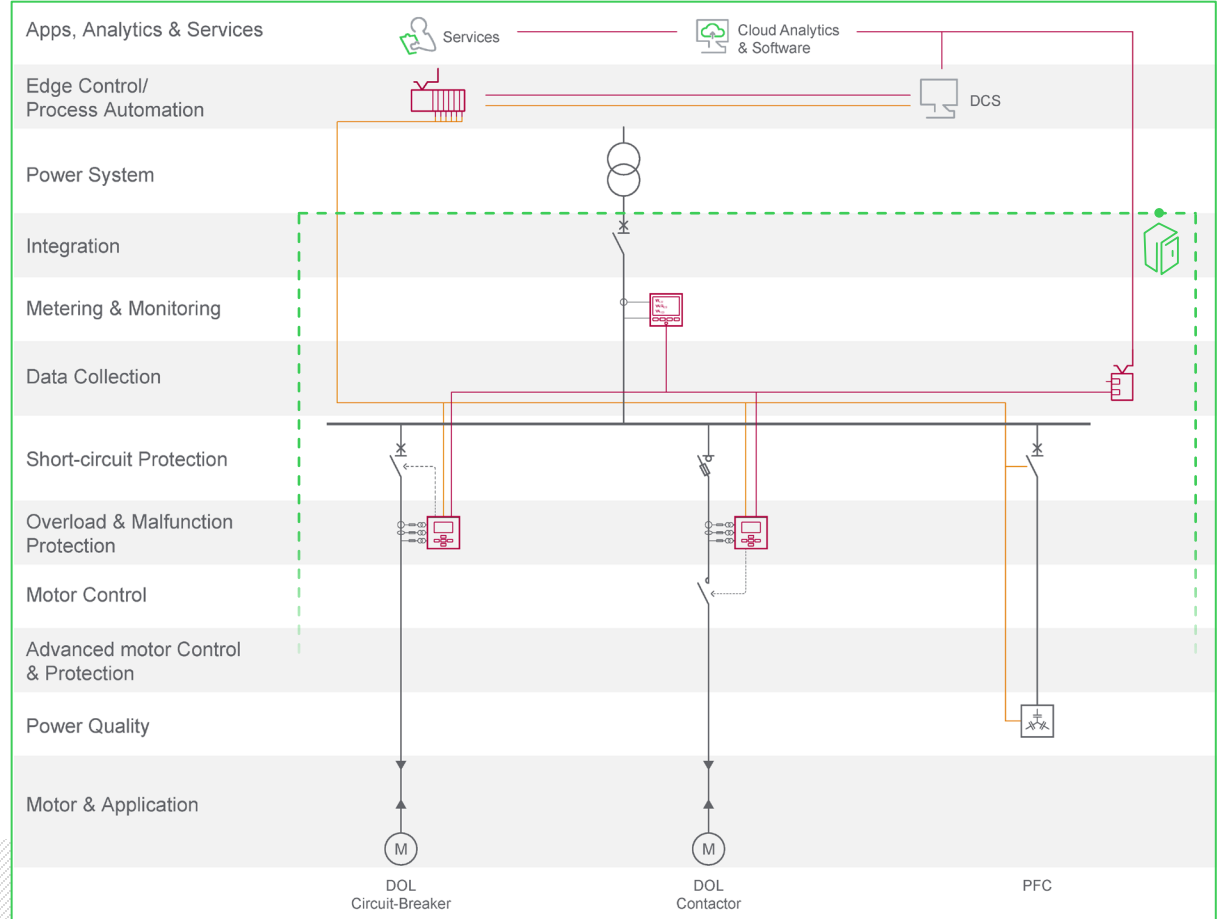


| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | | |
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DIGITIZED ARCHITECTURE



| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | | |
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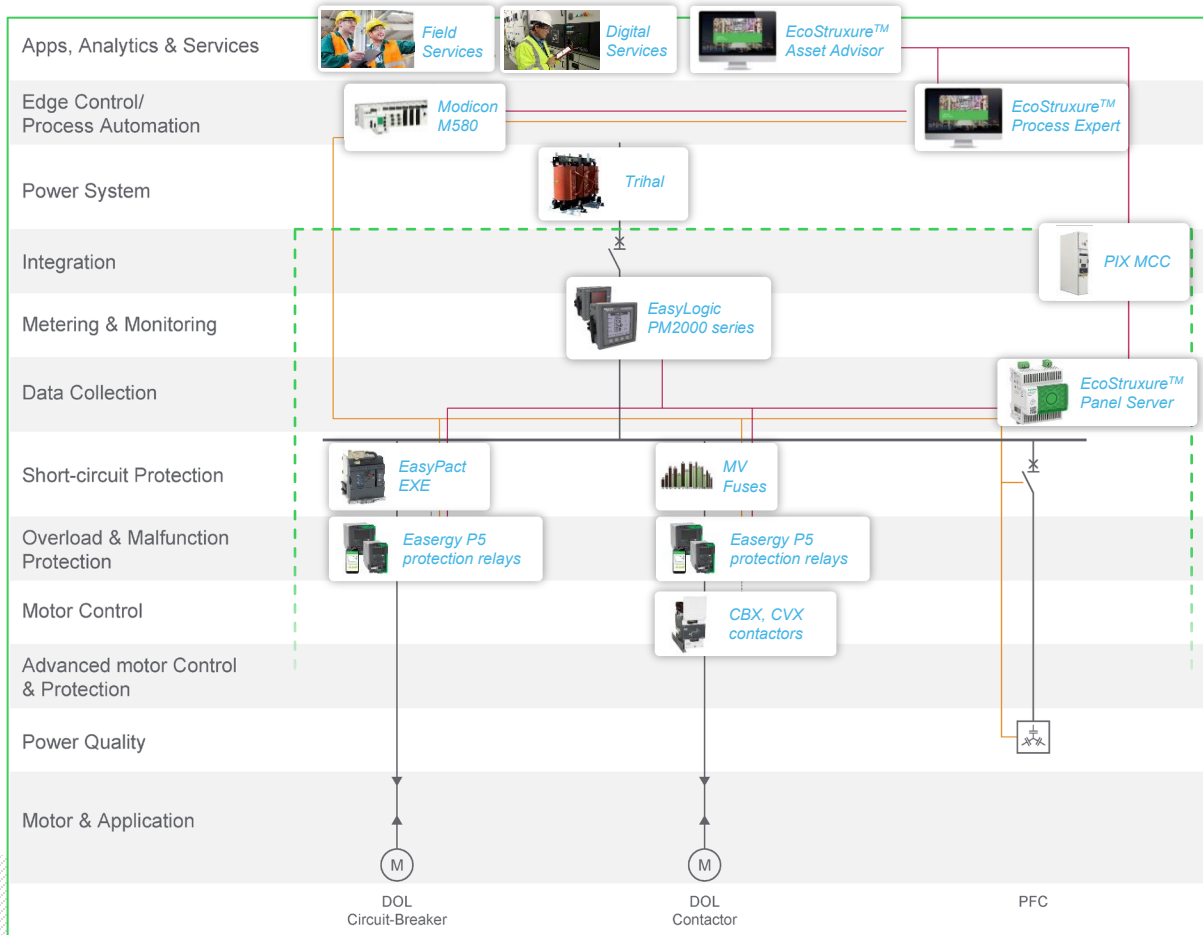
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Apps, Analytics & Services



Field Services



Digital Services



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Edge Control / Process automation



Modicon M580



EcoStruxure™ Process Expert

Power System



Trihal



Minera MP

Integration



PIX MCC



PIX



MC Set

Metering & Monitoring



EasyLogic PM2000 series



PowerLogic PM5000 series

Data Collection



EcoStruxure™ Panel Server

Short-circuit Protection



EasyPact EXE



MV Fuses

Overload & Malfunction Protection



Easergy P5 protection relays



Easergy P3 protection relays

Motor Control

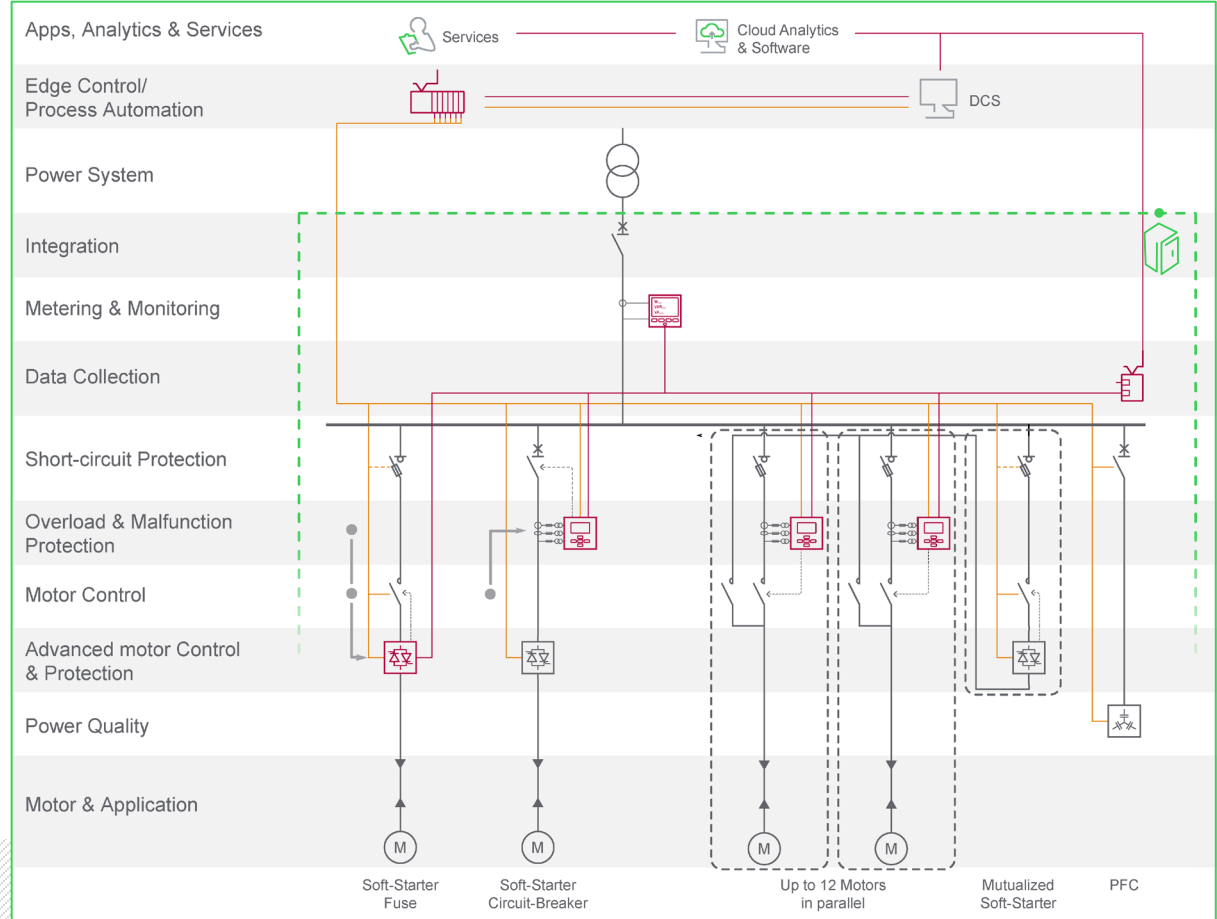


CBX, CVX contactors

Advanced motor control & Protection

Power Quality

DIGITIZED ARCHITECTURE



| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | | |
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DIGITIZED ARCHITECTURE

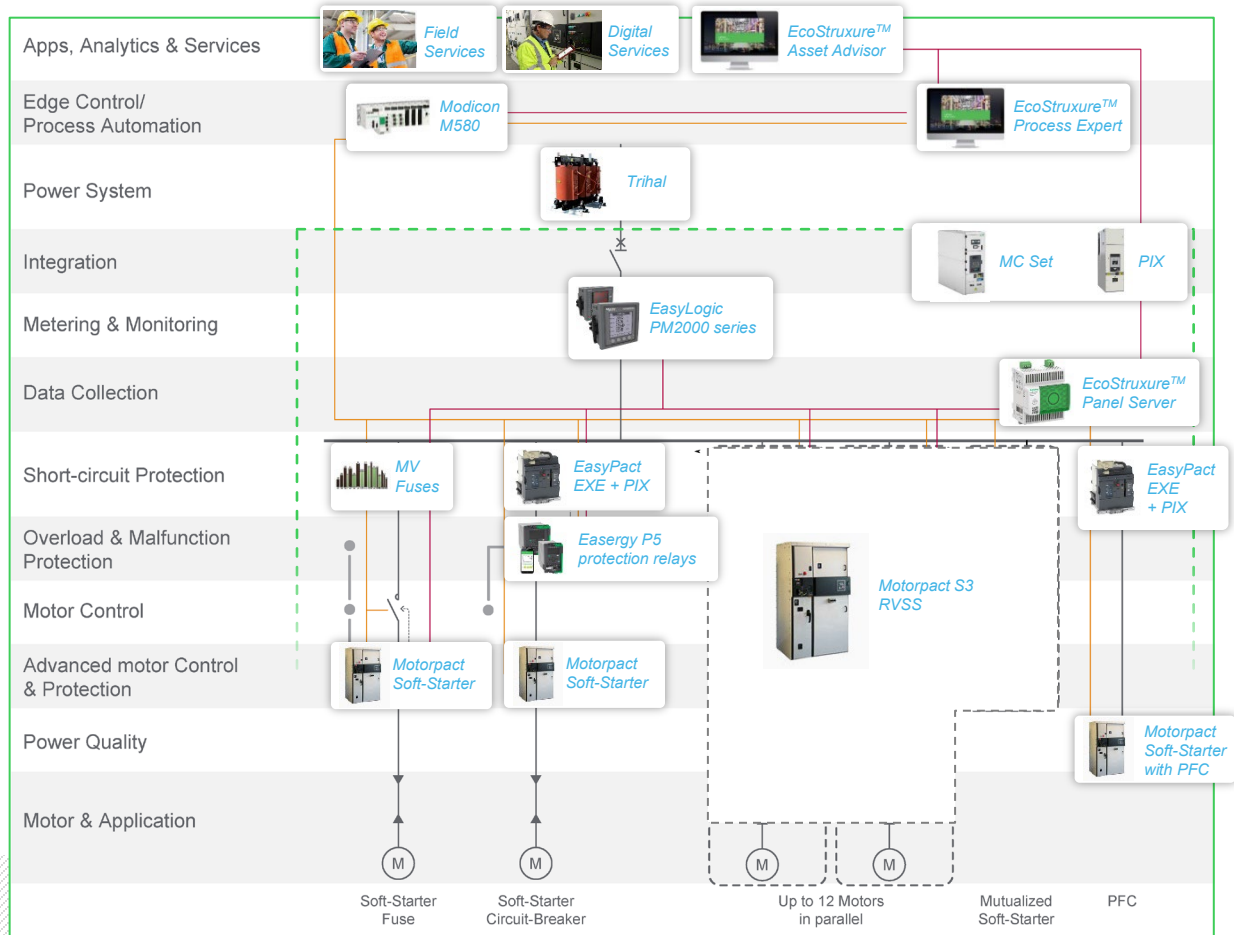
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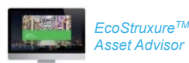
Apps, Analytics & Services



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Metering & Monitoring



EasyLogic PM2000 series



PowerLogic PM5000 series

Data Collection



EcoStruxure™ Panel Server

Short-circuit Protection



EasyPact EXE + PIX



MV Fuses

Overload & Malfunction Protection



Easergy P3 protection relays



Easergy P5 protection relays

Motor Control

Advanced motor control & Protection



Motorpact Soft- Starter



Motorpact Soft- Starter Stand alone

Power Quality

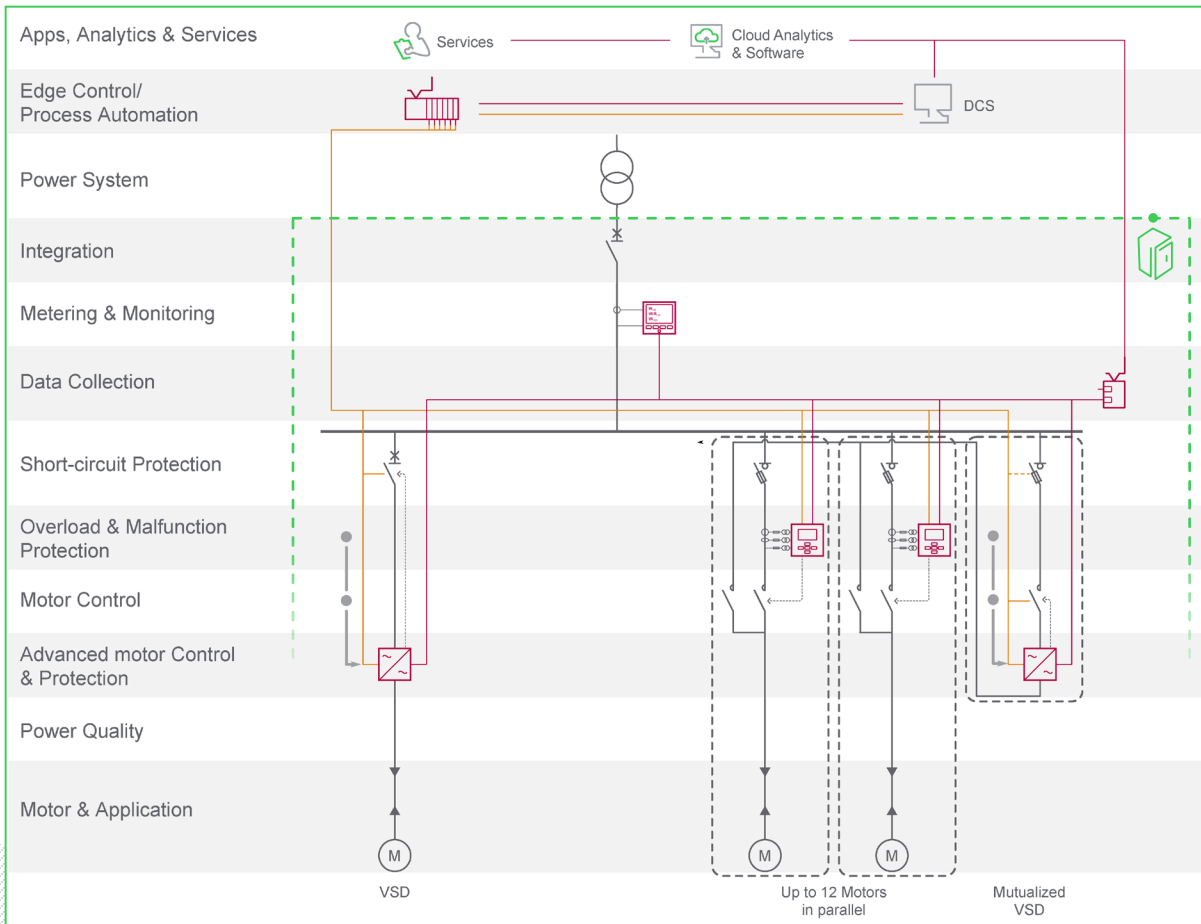


Motorpact Soft- Starter with PFC



Motorpact S3 RVSS

DIGITIZED ARCHITECTURE



| VOLTAGE | | ARCHITECTURE | | FILTERING BY STARTING MODE | | | |
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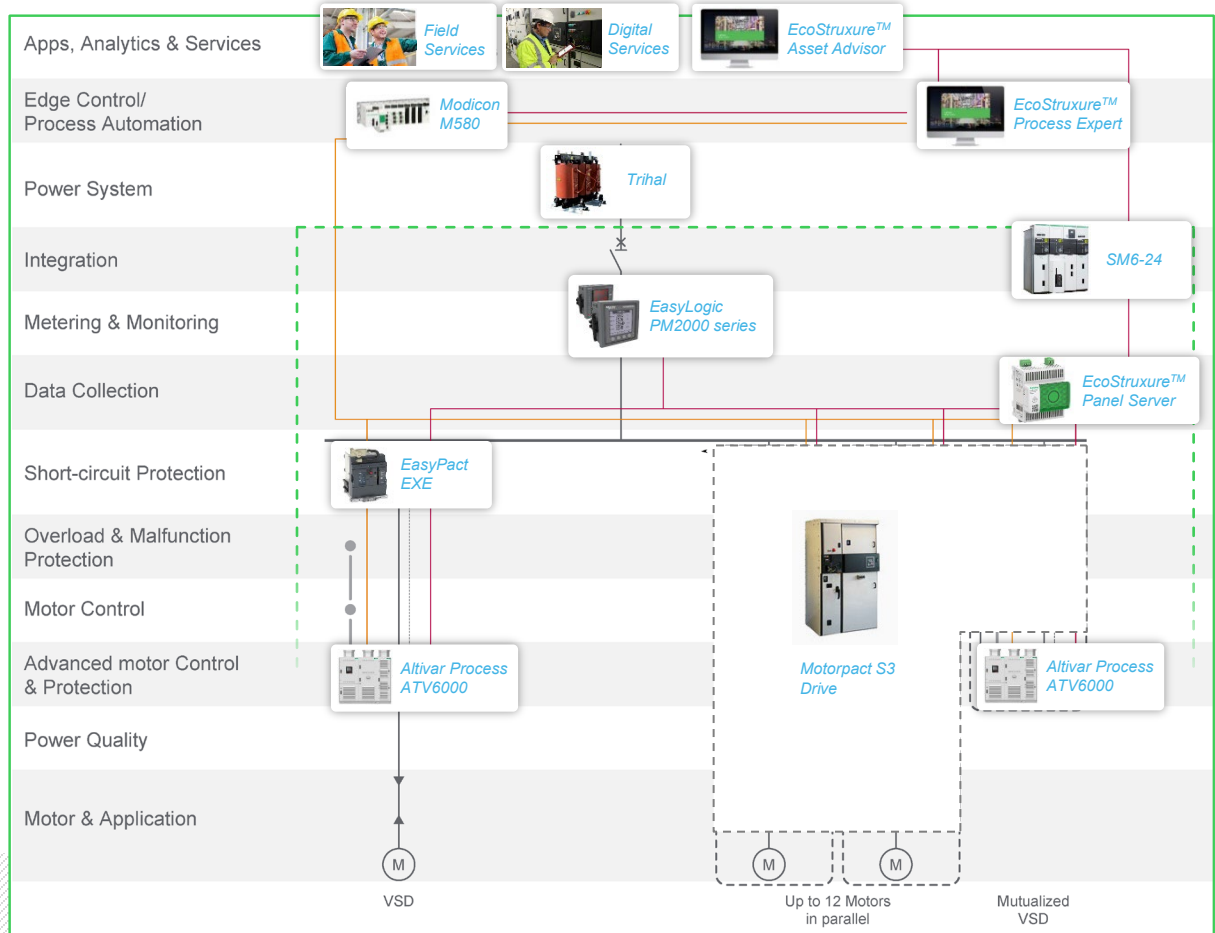
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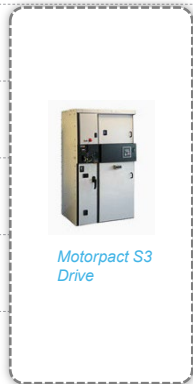


Overload & Malfunction Protection



Motor Control

Advanced motor control & Protection



Power Quality

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