

IEC 62613-1 : 2019
IEC 62613-2 : 2016
IEC/ISO 80005-1 : 2019

HVSC SYSTEM

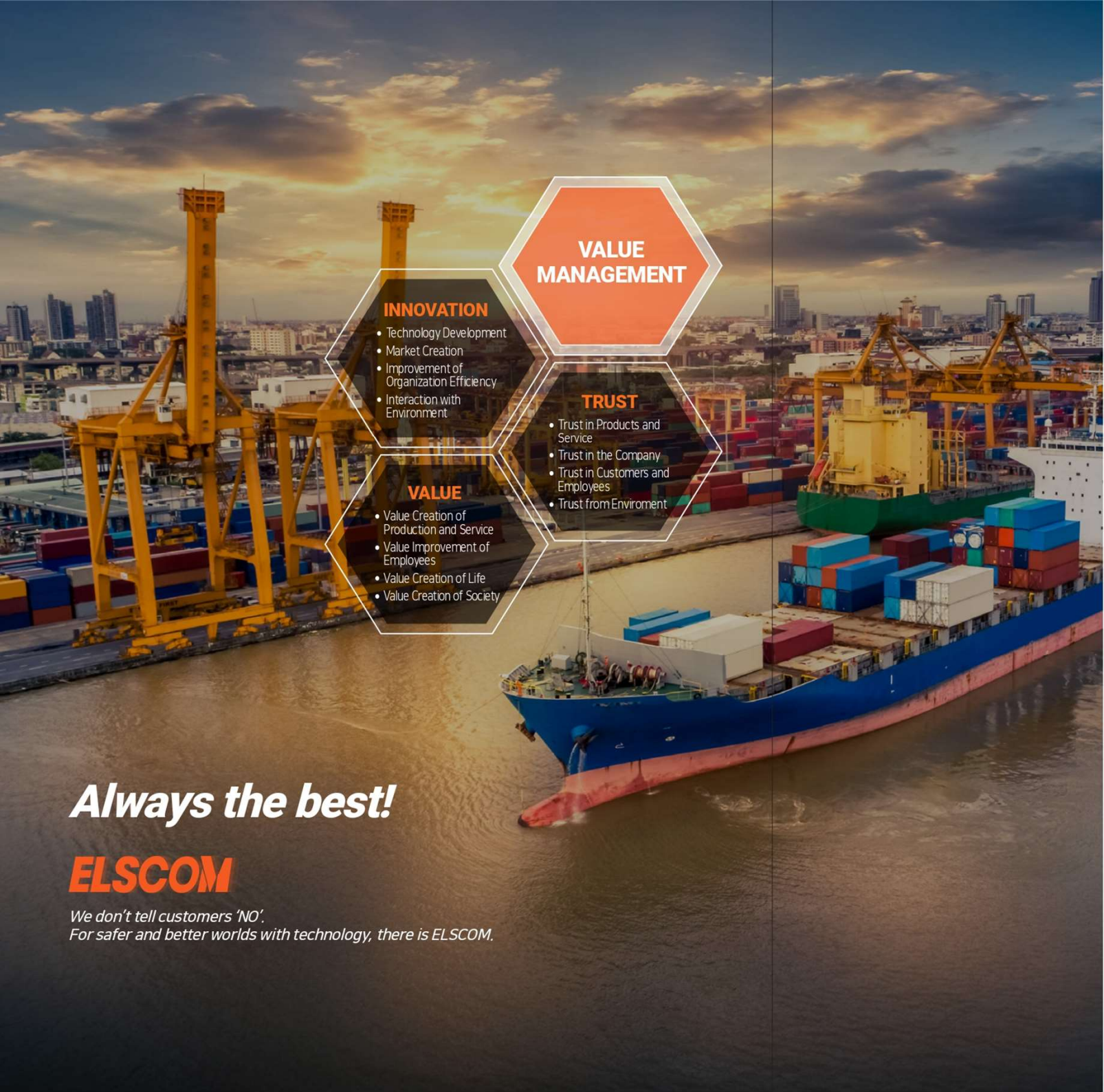
AMP *Alternative Maritime
Power Supply System*

More Safety, Better Environment !

ELSCOM

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VALUE MANAGEMENT

INNOVATION

- Technology Development
- Market Creation
- Improvement of Organization Efficiency
- Interaction with Environment

TRUST

- Trust in Products and Service
- Trust in the Company
- Trust in Customers and Employees
- Trust from Environment

VALUE

- Value Creation of Production and Service
- Value Improvement of Employees
- Value Creation of Life
- Value Creation of Society

Always the best!

ELSCOM

*We don't tell customers 'NO'.
For safer and better worlds with technology, there is ELSCOM.*

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APPLICATION STANDARD

IEC 62613-1:2011
IEC 62613-2:2016
IEC/ISO 80005-1:2014

Specification

Type Number	Plug: ASC-350P / Socket: ASC-350S
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 350A(depending on cable terminal)
Material	Body: Aluminum alloy Contacts : Brass Terminal Lug : Brass Insulator : Engineering Plastics Gaskets : Neoprene (Silicone for high temp.) Rollers : Stainless steel (SUS 316)
Mechanical Properties	IP 66(According to IEC 60529)
Thermal Properties	-25°C ~ +45°C
Control Properties	Three(3) Pilot circuit for electrical interlocking



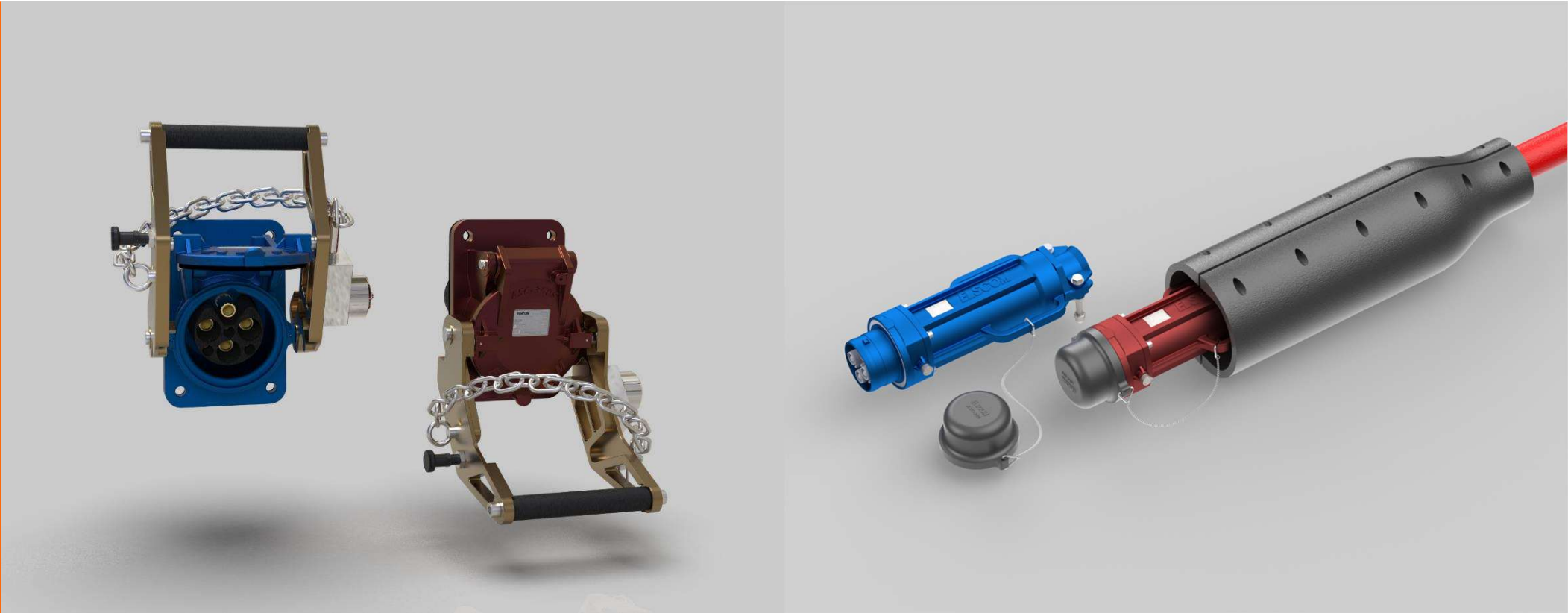
Technical Data

IP Grade	IP66/67H
Humidity Treatment	Humidity 91~95%, 7 days(168 h)
Partial Discharge	10pC min.(1.73U0)
AC Withstand Voltage	AC 20kV, 1 min.
Impulse Withstand Voltage	peak value 60kV, 10 times
Temperature Rise	Less than 50 K
Corrosion and resistance	Salt solution 5%, 200 h
Conditional Short-circuit	16kA(25kA) rms / 1s
Resistance to heat	100°C / 1h, RTI more than 125°C



7.2kV 350A PLUG & SOCKET

7.2kV 350A PLUG & SOCKET



Specification

Type Number	Socket : ASC-350SR(Red) / ASC-350SB(Blue)
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 350A(dependent on cable terminal)
Material	Body: Aluminum alloy Contacts : Brass Terminal Lug : Brass Insulator : Engineering Plastics Gaskets : Neoprene (Silicone for high temp.) Rollers : Stainless steel (SUS 316)
Mechanical Properties	IP 66(According to IEC 60529)
Thermal Properties	-25°C ~ +45°C
Cable Conductor Size	120 to 185mm ² (AWG 250 to 350)
Control Properties	Three(3) Pilot circuit for electrical interlocking



Specification

Type Number	Plug : ASC-350PR(Red) / ASC-350PB(Blue)
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 350A(dependent on cable terminal)
Material	Body: Aluminum alloy Contacts : Brass Terminal Lug : Brass Insulator : Engineering Plastics Gaskets : Neoprene (Silicone for high temp.) Rollers : Stainless steel (SUS 316)
Mechanical Properties	IP 66(According to IEC 60529)
Thermal Properties	-25°C ~ +45°C
Cable Conductor Size	120 to 185mm ² (AWG 250 to 350)
Control Properties	Three(3) Pilot circuit for electrical interlocking



690V 250A PLUG & SOCKET

690V 250A PLUG & SOCKET



ASC-0425 Female / Male



ASC-1940 Female / Male

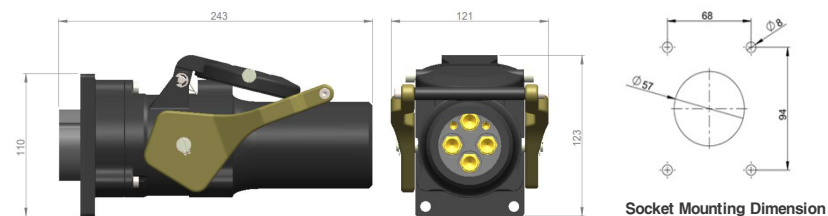


Specification

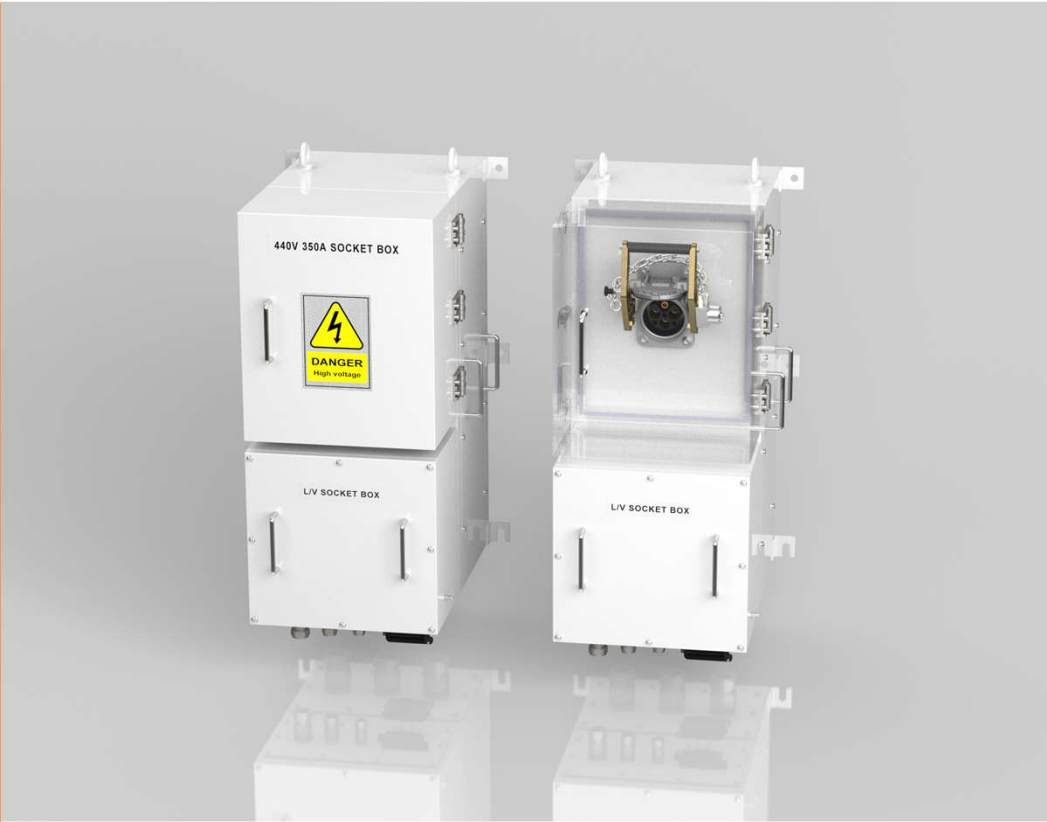
Type Number	ASC-1940 / ASC-0425
Rated Voltage	690Vac / 1,000Vdc
Rated Current	ASC-1940: 19pin 40A ASC-0425: 3ø+1E+2C 250A
Material	Body : Aluminum alloy Contacts : Brass Terminal Lug : Brass Insulator : Engineering Plastics Gaskets : Neoprene(Silicone for high temp.) Rollers : Stainless Steel(SUS 316)
Mechanical Properties	IP 66(According to IEC 60529)
Thermal Properties	-25°C ~ +45°C
Cable Conductor Size	4 to 50mm ²
Control Properties	Two(2) Pilot circuit for electrical interlocking

Specification

AC Withstand Voltage	5,000Vac/1min
Temperature Rise	Less than 50 K
Cable Gland	M50 x p1.5(option: armored or non-armored type)



7.2kV 350A SOCKET BOX (Integrated Type)



Specification

Type Number	SCB-350
Size	500(W) x 1100(H) x 750(D), mm
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 350A(depend on cable terminal)
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Space Heater	AC 230V, 200W
LV Socket	HARTING connector Power 40A, 690V / Control 10A, 250V
Customization	Available

7.2kV 350A SOCKET BOX (Integrated Type)



Specification

Type Number	SCB-350D
Size	500(W) x 1100(H) x 750(D), mm
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 350A(depend on cable terminal)
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Space Heater	AC 230V, 200W
LV Socket	HARTING connector Power 40A, 690V / Control 10A, 250V
Customization	Available
Remarks	Two(2) Door Type

7.2kV 700A SOCKET BOX (Integrated Type)



Specification

Type Number	SCB-700
Size	700(W) x 1100(H) x 750(D), mm
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 700A(dependent on cable terminal)
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Space Heater	AC 230V, 200W
LV Socket	HARTING connector Power 40A, 690V / Control 10A, 250V
Customization	Available

7.2kV 350A SOCKET BOX (Separated Type)



Specification

Type Number	SCB-711
Size	MV Enclosure 700(W) x 1100(H) x 750(D), mm LV Enclosure 700(W) x 500(H) x 750(D), mm
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 700A(dependent on cable terminal)
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Space Heater	AC 230V, 200W
LV Socket	HARTING connector Power 40A, 690V / Control 10A, 250V
Customization	Available

7.2kV 700A SPO BOX



7.2kV 350A POWER JUNCTION BOX

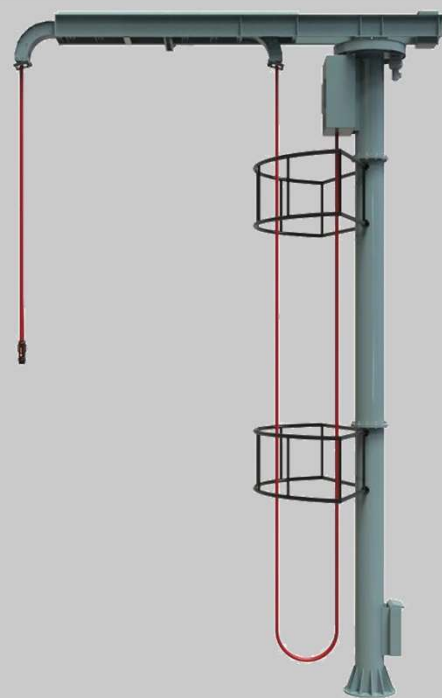
Specification

Type Number	SPO-700
Size	900(W) x 900(H) x 1200(D), mm
Rated Voltage	7200V (7,2kV)
Rated Current	Max, 700A(depending on cable terminal)
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Space Heater	AC 230V, 200W
Phase Indicator	HARTING connector Power 40A, 690V / Control 10A, 250V
Customization	Available

Specification

Type Number	PJB-700
Size	1200(W) x 800(H) x 350(D), mm
Rated Voltage	7200V (7,2kV)
Rated Current	Max, 700A(depending on cable terminal)
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Customization	Available

AMP DISPENSER



Specification

Type Number	ACD-230
Rated Voltage	7200V (7.2kV)
Composition	3x185 + 2x95/2 + 10x2.5 + 12FO
Dimension	Ø70mm
Weight Cable	11 kg/m
Allowable tension	11,000 N
Feeding length	30 m
Feeding Speed	10 m/min (Settable)
Feeding in time	3.0 min (Settable)
Slewing speed	0.5 rpm (Settable)
Slewing angle	±60°
Ambient temp	-25°C ~ +45°C
Design wind speed	36 m/s
Customization	Available

AMP CABLE REEL



Specification

Type Number	ACR-255
Rated Voltage	7200V (7.2kV)
Composition	3x185 + 2x95/2 + 10x2.5 + 12FO
Dimension	Ø70mm
Weight Cable	11 kg/m
Allowable tension	11,000 N
Reel length	2x(55m + 2 dead turns)
Speed	10 m/min
Reeling in time	5.5 min
Ambient temp	-25°C ~ +45°C
Customization	Available

LV DISTRIBUTION BOX

E-STOP SWITCH BOX



Specification

Type Number	ADB-0563
Size	500(W) x 600(H) x 200(D), mm
Rated Voltage	AC450 & 230V
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Cable Entry	Bottom
Transformer	440 / 400V, 1000VA 450 / 230V, 160VA
Customization	Available

Specification

Type Number	AES-2216
Size	200(W) x 200(H) x 168(D), mm
Rated Voltage	690V
Rated Current	Max, 10A
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Customization	Available

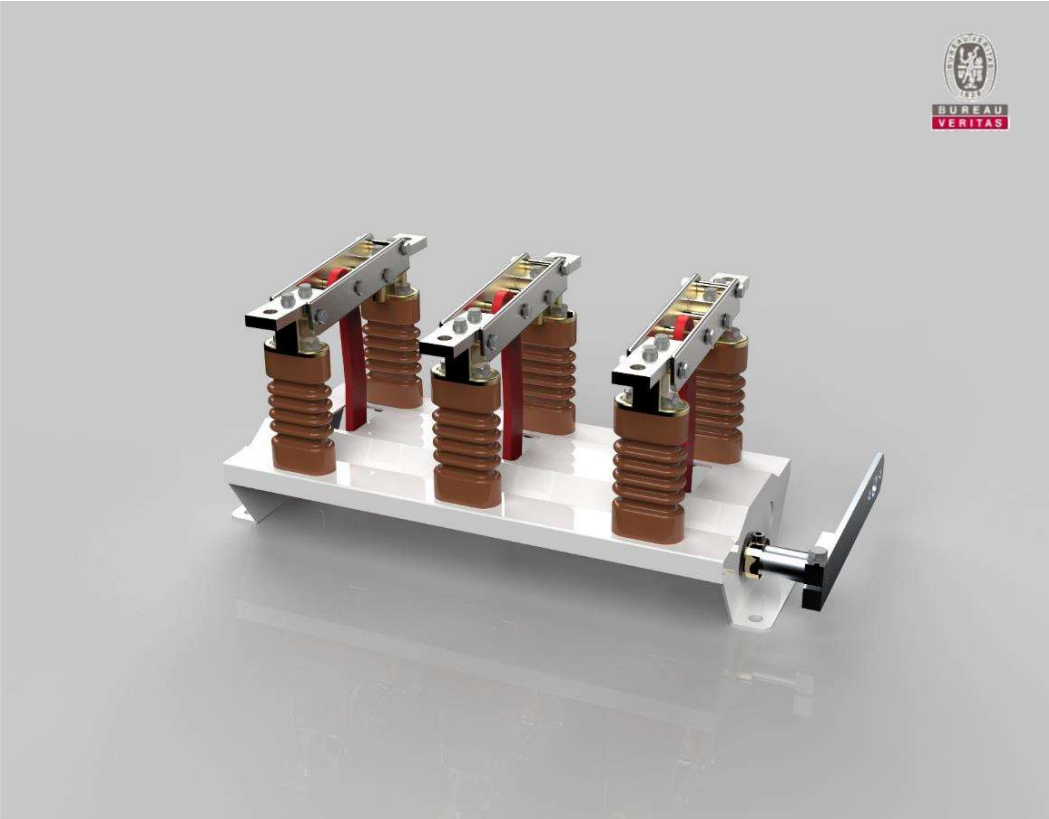
7.2kV 800A CHANGE OVER SWITCH BOX



Specification

Type Number	COS-800
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 800A(depending on cable terminal)
Operation	Manual Type
Material	Stainless steel(SUS 316)
Enclosure Color	Light gray(R7035) – Customization
IP Grade	IP 66(According to IEC 60529)
Customization	Available

7.2kV 800A DISCONNECTING SWITCH



Specification

Type Number	HDH-800
Rated Voltage	7200V (7.2kV)
Rated Current	Max, 800A(depending on cable terminal)
Number of Phases	3 Phases
Frequency	50 / 60 Hz
A. C Withstand Voltage	AC 20kV, 1 min.
Impulse Withstand Voltage	Peak value 60kV, 10 times
Customization	Available

AMP SOCKET & PLUG Accessories



Plug Protection Outer Cover (Option)



- Type No. : POC-350
- Material : EPDM

Plug Protection Head Cap



- Type No. : PHC-350
- Material : EPDM

Cable Grip (Option)



- Type No. : CG60-800
- Material : Stainless steel

Interlock Key (Option)



- Type No. : ELK-357
- Material : Brass(Cr Plating)

MV Male Contact



- Type No. : AHC-M350
- Material : Brass(Silver Plating)

MV Female Contact



- Type No. : AHC-F350
- Material : Brass(Silver Plating)

MV Lug contact



- Type No. : AHC-L350
- Material : Brass(Silver Plating)

Earthing Male Contact



- Type No. : AEC-M095
- Material : Brass(Silver Plating)

Earthing Female Contact



- Type No. : AEC-F095
- Material : Brass(Silver Plating)

Earthing Lug contact



- Type No. : AEC-L095
- Material : Brass(Silver Plating)

Pilot Male Contact



- Type No. : APC-M020
- Material : Brass(Silver Plating)

Pilot Female Contact



- Type No. : APC-F020
- Material : Brass(Silver Plating)

Pilot Lug Contact



- Type No. : APC-L020
- Material : Brass(Silver Plating)

AMP SOCKET & PLUG Wrench



Specification

Type Number	COW-185
Size	Ø 22.5 x L80 x Ø 17.4

AMP Cable Hydraulic Compression Tool

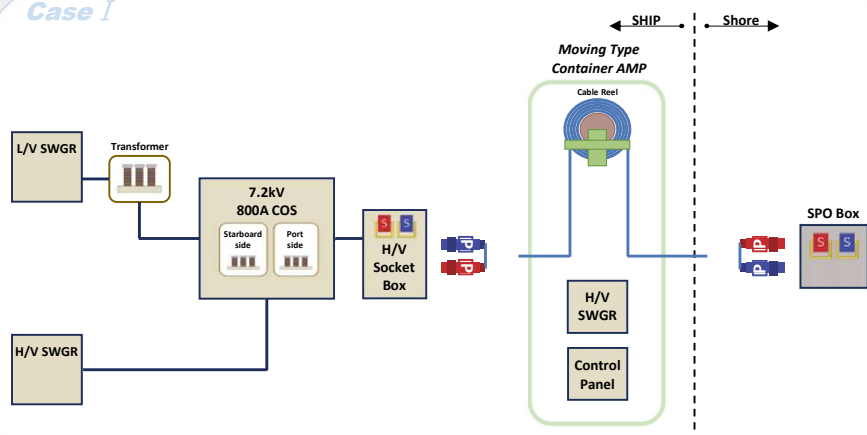


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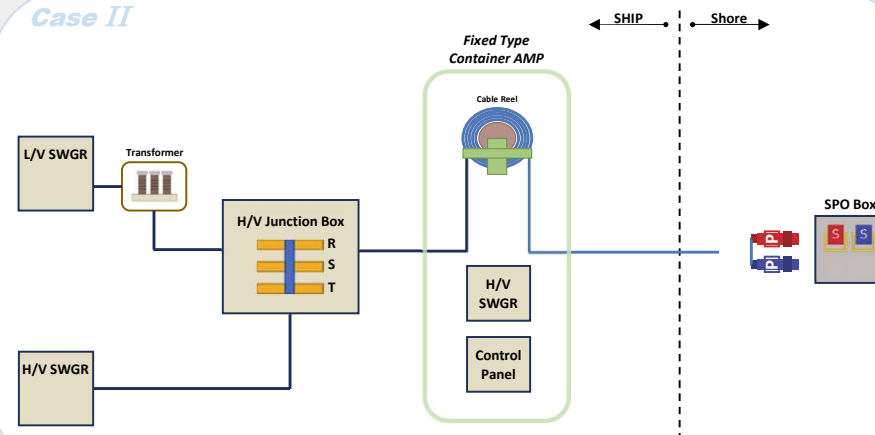
Type Number	CCS-095 / 185
Applied Cable Size	95SQ / 185SQ
Capacity	10 ton
Stroke	20 mm
Weight	5.5 kg



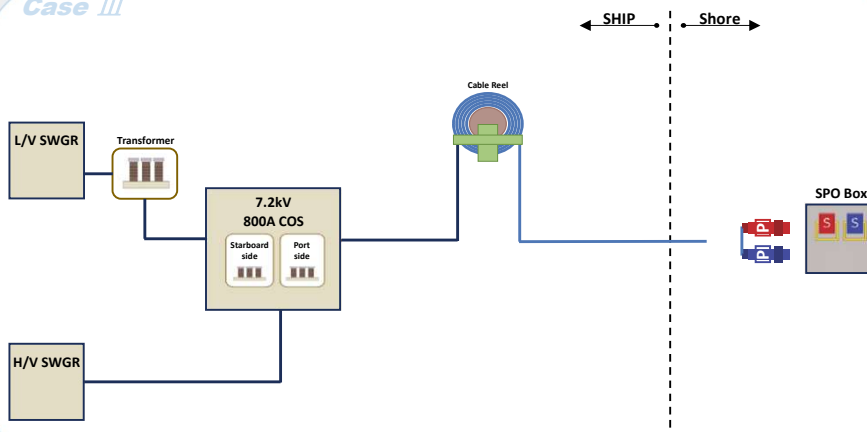
Case I



Case II



Case III



Case IV

