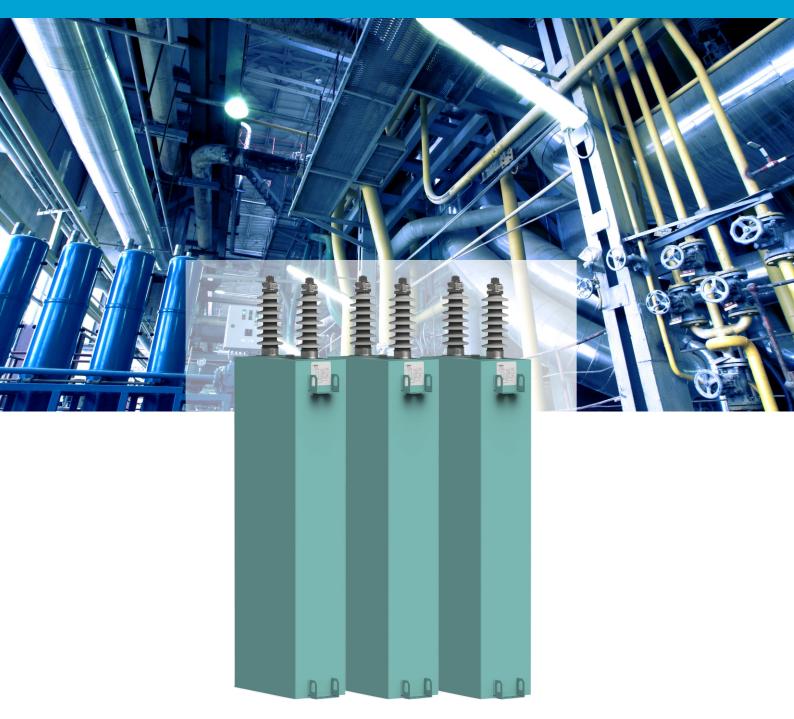
## ELECTROTECHNICAL COMPONENTS



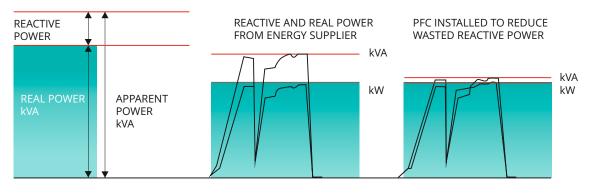
# PFC CAPACITORS FOR HIGH VOLTAGE

- LOW LOSSES CAPACITOR, WITH HIGH RESISTANCE TO STRONG ELECTRICAL FIELDS
- RELEVANT FOR REACTIVE POWER COMPENSATION OF ELECTRICAL NETWORKS AND INDUSTRIAL PLANTS



## INTRODUCTION

PFC (POWER FACTOR CORRECTION) HIGH VOLTAGE KLV-P CAPACITORS ARE CAPACITORS DESIGNED FOR REACTIVE POWER COMPENSATION OF ELECTRICAL NETWORKS AND INDUSTRIAL PLANTS. USUALLY CAPACITORS ARE INTEGRATED INTO SHUNT CAPACITOR BANK SYSTEMS. EFFICIENT USE OF ENERGY IS AN INCREASINGLY IMPORTANT FACTOR. BY USING APPROPRIATE EQUIPMENT, WE CAN ENSURE BETTER QUALITY AND MORE EFFICIENT OPERATION OF SYSTEMS. MOST ELECTRICAL DEVICES, SUCH AS ASYNCHRONOUS MOTORS, TRANSFORMERS, CHOKES, INDUCTION HEATING FURNACES, WELDING DEVICES, FLUORESCENT LAMPS AND MANY OTHERS, DON'T NEED ONLY ACTIVE POWER BUT ALSO REACTIVE POWER FOR THEIR OPERATION. BECAUSE OF THESE INDUCTANCES, THE SYSTEM CURRENT LAGS BEHIND SYSTEM VOLTAGE. AS THE LAGGING ANGLE BETWEEN VOLTAGE AND CURRENT INCREASES, THE POWER FACTOR OF THE SYSTEM DECREASES. IF THE POWER FACTOR DECREASES, AND ACTIVE POWER DEMAND REMAINS, THE SYSTEM REQUIRES MORE CURRENT FROM THE POWER SOURCE. THAT RESULTS NOT ONLY IN ADDITIONAL COSTS FOR ENERGY SUPPLY BUT ALSO IN ADDITIONAL LOADS ON TRANSMISSION LINES AND OTHER CONTACT ELEMENTS.



SMALLER GAP EQUATES TO LOWER FACTOR AND REDUCED ELECTRICITY BILL SUPPLIERS CHARGE FOR TOTAL kVA

## **GENERAL INFO**

HIGH VOLTAGE CAPACITORS ARE COMPOSED OF PARTIAL CAPACITANCES (SECTIONS) GENERALLY CONNECTED IN SEVERAL SERIAL-PARALLEL GROUPS USED TO OBTAIN THE REQUIRED ELECTRICAL CHARACTERISTICS FOR THE UNIT.

- THE NOMINAL VOLTAGE OF A CAPACITOR DEPENDS ON THE NUMBER OF GROUPS IN SERIES
- THE NOMINAL POWER OF A CAPACITOR DEPENDS ON THE NUMBER OF PARTIAL CAPACITANCES IN PARALLEL PER GROUP

EACH ELEMENTARY CAPACITANCE IS PRODUCED USING TWO ALUMINIUM FOILS FORMING THE ELECTRODES AND HIGH QUALITY POLYPROPYLENE FILMS WHICH ARE ROUGH FOR EASY IMPREGNATION, FORMING PART OF THE INSULATING LAYER.

THE WIRED CAPACITANCE ASSEMBLY, CALLED THE "ACTIVE PACK" IS POSITIONED IN CONTAINER AND EQUIPPED WITH PORCELAIN BUSHINGS USED TO CONNECT THE DEVICE

AFTER IT HAS BEEN DRIED AND TREATED, THE "ACTIVE SECTION" IS IMPREGNATED UNDER A VACUUM WITH A LIQUID DIELECTRIC OF THE FOLLOWING TYPE :

- NON-CHLORINATED (NON-PCB)
- NON-TOXIC
- ENVIRONMENTALLY COMPATIBLE

WITH THE POLYPROPYLENE FILM, THIS LIQUID DIELECTRIC, WHICH HAS A REMARKABLY HIGH CHEMICAL STABILITY, A HIGH GAS ABSORPTION AND PARTIAL DISCHARGE QUENCHING CAPACITY AND A FLASH POINT OF APPROXIMATELY 150°C, ENSURES TOTAL INSULATION BETWEEN ELECTRODES. THIS "ALL-FILM" TECHNOLOGY HAS THE FOLLOWING MAIN CHARACTERISTICS:

- HIGH RESISTANCE TO STRONG ELECTRICAL FIELDS
- LOW POWER LOSSES, ENABLING CONSIDERABLE SAVINGS FOR HIGH POWER CAPACITOR BANKS.

## PFC CAPACITORS FOR HIGH VOLTAGE -KLV 12xxP, KLV 32xxP

#### GENERAL

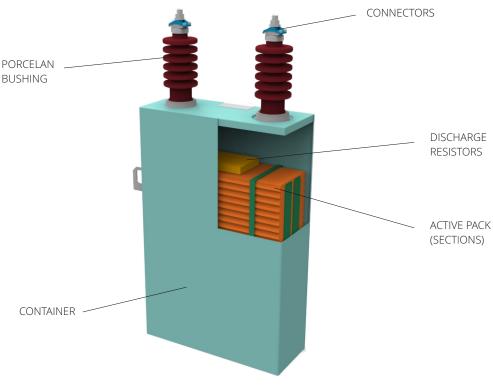
ADVANCED TECHNOLOGY OF **KLV-P CAPACITORS** IS BASED ON CONSTRUCTION OF ALL-FILM CAPACITOR SECTIONS, FOLDING FOIL EDGE DESIGN, IMPROVED ELECTRICAL AND MECHANICAL CONNECTIONS BETWEEN SECTIONS AND IMPREGNATION WITH ENVIRONMENTALLY COMPATIBLE INSULATING OIL. **KLV-P CAPACITORS** HAVE VERY LOW DIELECTRIC LOSSES AND ARE SIMPLE, ECONOMICAL AND RELIABLE SOURCE OF COMPENSATING REACTIVE POWER ON ELECTRIC POWER SYSTEMS.

#### • KLV 3xxxP

INTERNALLY FUSED CAPACITORS. EACH CAPACITOR ELEMENT HAS A SEPARATE INTERNAL FUSE.

#### KLV1xxxP

CAPACITORS WITHOUT INTERNAL FUSES



## FEATURES

- ALL-FILM TECHNOLOGY
- NON-PCB, NON-TOXIC, ENVIRONMENTALLY COMPATIBLE IMPREGNATING OIL
- HAZY POLYPROPYLENE DIELECTRIC
- EXTENDED FOIL
- FOLDED FOIL DESIGN
- SOLDERING DIRECTLY TO THE ALUMINIUM FOILS
- LOW LOSSES CAPACITOR, WITH HIGH RESISTANCE TO STRONG ELECTRICAL FIELDS
- DIMENSIONS AND SHAPE COULD BE MODIFIED ACCORDING TO EXISTING UNITS
- EUROPEAN QUALITY AND DESIGN

# PFC CAPACITORS FOR HIGH VOLTAGE -KLV 12xxP, KLV 32xxP

## TECHNICAL DATA

Matter Voltage         10 - 25 kV           RATED Voltage         50 OR 60 Hz           RATED Voltage         50 OR 60 Hz           LOSSES         TOTAL LOSSES LOWER THAN 0.2 W/kvar           DIELECTRIC         ALL-FLM (HAZY POLYPROPYLENE)           IMMED VOLTAGE         CALL-FLM (HAZY POLYPROPYLENE)           IMPREGNATING FLUID         ENVIRONMENTALLY COMPATIBLE IMPREGNATING OL BASED ON M/DBT (NON - PCB)           PERMISSIBLE OVERLOADS         ENVIRONMENTALLY COMPATIBLE IMPREGNATING OL BASED ON M/DBT (NON - PCB)           PERMISSIBLE VOLTAGE         1.1 x Un CONTINUOUSLY           MAXIMUM PERMISSIBLE VOLTAGE         1.1 x Un CONTINUOUSLY           ROUTINE TESTS         SEALING TEST           DISCHARGE RESISTOR TEST         2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC, 10 s           DISCHARGE RESISTOR TEST         2.0 x RATED VOLTAGE           MEASUREMENT OF LOSSES (TAN 8)         AT RATED VOLTAGE           CAPACITANCE MEASUREMENTS         AT RATED VOLTAGE           SERVICE CONDITIONS         UPPER AMBIENT TEMPERATURE CATEGORY -25 'C           INSTALLATION         OUTDOOR OR INDOOR									
RATED REQUENCY         50 OR 60 Hz           LOSSES         TOTAL LOSSES LOWER THAN 0.2 Wikkar           DIELECTRIC         DIELECTRIC LOSSES LOWER THAN 0.07 Wikkar           DIELECTRIC         ALL-FILM (HA2Y POLYPROPYLENE)           IMPRECANTING FUID         ENVIRONMENTALLY COMPATIBLE IMPREGNATING OIL BASED ON MUBBT (NON – PCB)           PERMISSIBLE OVERLOADS         MAXIMUM PERMISSIBLE CURRENT           MAXIMUM PERMISSIBLE CURRENT         1.3 x in CONTINUOUSLY           MAXIMUM PERMISSIBLE CURRENT         1.3 x in CONTINUOUSLY           MAXIMUM PERMISSIBLE CURRENT         1.3 x in CONTINUOUSLY           MAXIMUM PERMISSIBLE CURRENT         1.1 x Un CONTINUOUSLY           MAXIMUM PERMISSIBLE CURRENT         2.0 x RATED VOLTAGE A. (10 s ONLY)           DISCHARGE TEST ON INTERNAL FUSES         (INTERNALLY FUSED CAPACITORS ONLY)           DISCHARGE TEST TON INTERNAL FUSES         2.0 x RATED VOLTAGE A. (10 s ONLY)           MASUREMENT OF LOSSES (TAN a)         AT RATED VOLTAGE           CAPACITANCE MEASUREMENTS         AT RATED VOLTAGE           SERVICE CONDITIONS         UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C           ILIGWEST MEAN OVER 1 VEAR -25 °C         HIGHEST MEAN OVER 1 VEAR -25 °C           INSTALLATION         OUTDOOR OR INDOOR           INSTALLATION         OUTOOR OR INDOOR           INSTALLATION         OUTO	RATED POWER (MAX.)	670 kvar							
IDSEE         TOTAL LOSSES LOWER THAN 0.2 Wilvar           DIELECTRIC LOSSES LOWER THAN 0.2 Wilvar           DIELECTRIC LOSSES LOWER THAN 0.2 Wilvar           DIELECTRIC LOSSES LOWER THAN 0.2 Wilvar           IMPRECINATING FLUID           ENVIRONMENTALIV COMPATIBLE IMPREGNATING OIL BASED ON MUDBT (NON - PCB)           PERMISSIBLE OVERLOADS           MAXIMUM PERMISSIBLE CURRENT           CONTINCTESTS           SEALING TEST           DISCHARGE TEST ON INTERNAL FUSES           DISCHARGE RESISTOR TEST           DISCHARGE RESISTOR TEST           MAXIMUM PERMISSIBLE CURRENT           STANDARD TEMPERATURE CATEGORY -25/B           INSCHARGE RESISTOR TEST           MEASUREMENT OF LOSSES (TAN a)           CAPACITANCE MEASUREMENTS           STANDARD TEMPERATURE CATEGORY -25/B           UPPER AMBIENT TEMPERATURE CATEGORY -25/B           INSTALLATION           OUTODOR OR INDORS           INSTALLATION           OUTODOR OR INDOROR           INSTALLATION           OUDOR NENT DURASE STEEL PURITY           INSTALLATION           OUTODOR OR INDOROR           INSTALLATION           OUDOR NON INDOR           INSTALLATION           OUDOR NENT DURASE STEEL PURTIS STEEL CURACE CONTACT FACTORY      <	RATED VOLTAGE	1.0 - 25 kV							
DIELECTRIC         DIELECTRIC           DIELECTRIC         ALL-FILM (HAZY POLYPROLYENE)           IMPREGNATING FLUID         ENVIRONMENTALLY COMPATIBLE IMPREGNATING OIL BASED ON M/DBT (NON - PCB)           PERMISSIBLE OVERLOADS         ENVIRONMENTALLY COMPATIBLE IMPREGNATING OIL BASED ON M/DBT (NON - PCB)           MAXIMUM PERMISSIBLE VOLTAGE         1.1 x Un CONTINUOUSLY           MAXIMUM PERMISSIBLE VOLTAGE         1.1 x Un CONTINUOUSLY           MAXIMUM PERMISSIBLE VOLTAGE         0.1 x Un CONTINUOUSLY           VOLTAGE TEST S         SEALING TEST           SEALING TEST         0.1 x Un CONTINUOUSLY           VOLTAGE TEST BETWEEN TERMINALS         2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC , 10 s           DISCHARGE RESISTOR TEST         0.1 X RATED VOLTAGE           MEASUREMENT OF LOSSES (TAN 8)         AF RATED VOLTAGE           CAPACITANCE MEASUREMENTS         AF RATED VOLTAGE           SERVICE CONDITIONS         0.1 X RATED VOLTAGE           STANDARD TEMPERATURE CATEGORY -25/B         UPPER AMBIENT TA COPERATURE -25 °C           INSTALLATION         0.0 UDDOOR OR INDOOR           INSTALLATION         0.0 UDDOOR OR INDOOR           INSTALLATION         0.0 UDDOOR OR INDOOR           INSTALLATION         TWO COMPONENT DURABLE PANTING BAL 6027 ORPATIONE SEAC (LIGHT GREEN, OR AT 25 °C           INSTALLATION         <	RATED FREQUENCY	50 OR 60 Hz							
DIELECTRIC         ALL-FILM (H-A2Y POLYPROPYLENE)           IMPEGNATING FLUID         ENVIRONMENTALLY COMPATIBLE IMPREGNATING OIL BASED ON M/DBT (NON – PCB)           PERMISSIBLE OVERLOADS         MAXIMUM PERMISSIBLE CURRENT           MAXIMUM PERMISSIBLE CURRENT         1.3 x in CONTINUOUSLY           MAXIMUM PERMISSIBLE CURRENT         1.3 x in CONTINUOUSLY           MAXIMUM PERMISSIBLE CURRENT         1.3 x in CONTINUOUSLY           MAXIMUM PERMISSIBLE VOLTAGE         (INTERNALT PUSED CAPACITORS ONLY)           VOLTAGE TEST DE TWEEN TERMINALS         2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC, 10 s           DISCHARGE RESISTOR TEST         MEASUREMENT OF LOSSES (TAN 8)           CAPACITANCE MEASUREMENTS         AT RATED VOLTAGE           SERVICE CONDITIONS         UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C           HIGHEST MEAN OVER 1 YEAR +25 °C         HIGHEST MEAN OVER 1 YEAR +25 °C           INSTALLATION         OUTOOR OR INDOOR           INSTALLATION         OUTOOR OR MAX.FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY           CASE MATERIAL         STAINLESS STEEL PLATE 1.5 mm THICK, WAY. 1.4301           FINISH/COLOUR         TWO-COMPONENT DURAGE PLAYTING FAL 6027 OR PANTORE 3202C (LICH GEND, OR RAI. 7022 (LIGH GRA9, ON TREATED SURRECE           FINISH/COLOUR         EROWN OR GRAP PORCELAN BUSHINGS, WELDED TO THE CONTAINERT ADE HAWING SLOT TERMINED SURFACE           FINISH/COLOUR<	LOSSES	TOTAL LOSSES LOWER THAN 0.2 W/kvar							
INPRECIAITING FLUID ENVIRONMENTALLY COMPATIBLE IMPREGNATING OIL BASED ON M/DBT (NON – PCB) ERMISSIBLE OVERLOADS MAXIMUM PERMISSIBLE CURRENT I.3 x in CONTINUOUSLY MAXIMUM PERMISSIBLE CURRENT CONTINUE CONTINUOUSLY MAXIMUM PERMISSIBLE CURRENT CONTINUE CONTINUOUSLY CONTINUE CESTS SEALING TEST SEALING TEST ISS SEALING TEST ON INTERNAL FUSES (INTERNALLY FUSED CAPACITORS ONLY) VOLTAGE TEST BETWEEN TERMINALS 2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC, 10 s DISCHARGE TEST ON INTERNAL FUSES CAPACITORS ONLY) VOLTAGE TEST BETWEEN TERMINALS 2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC, 10 s DISCHARGE RESISTOR TEST MEASUREMENT OF LOSSES (TAN 8) CAPACITANCE MEASUREMENTS SERVICE CONDITIONS STANDARD TEMPERATURE CATEGORY -25/B UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C HIGHEST MEAN OVER 12 MAR 7.5 °C LOWEST AMBIENT TEMPERATURE CATEGORY -25/B UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C HIGHEST MEAN OVER 12 MAR 7.5 °C UNSTALLATION OUTDOOD OR INDOOR INSTALLATION DEDENDING ON MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY CASE MATERIAL STANLESS STELE PLATE 1.5 °C UNECTIONS FINANCOLOUR FINANCOLOUR FINANCOLOUR MAR FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY CASE MATERIAL DEDENDING ON THE HIGHER OF CAPACITOR CONTAINER RIS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NEAD OVER 12 MAR 7.032 (ILGHE GRAY, ON TREATED SUBFACE FIXING DEDENDING ON THE ARGORY OR SUBSE, BRACKETS HAVE MOUNTING SUDTS 11 X 20 mm TERMINALS AND CONNECTIONS BRACKETS ON THE NEAD ON THE NEAD MAX. TA30.1 TERMINALS AND CONNECTIONS BRACKETS ON THE NEAD ON THE ARGONDATE RAY COMBINATION OF 2 CONDUCTORS FROM A "mm <sup>3</sup> SOLID TO SO mm <sup>3</sup> STRANDED WIRE ARE AVAILABLE. NAMEPLATES OUNDABLE PLASTIC LABLE WITH PROVANLENT PINTING QUALITY ISKRA D.D IS CERTIFIED AC		DIELECTRIC LOSSES LOWER THAN 0,07 W/kvar							
Instruction         Image: State S	DIELECTRIC	ALL-FILM (HAZY POLYPROPYLENE)							
MAXIMUM PERMISSIBLE CURRENT         1.3 x in CONTINUOUSLY           MAXIMUM PERMISSIBLE VOLTAGE         1.1 x Un CONTINUOUSLY           ROUTINE TESTS         SEALING TEST           SEALING TEST         SINTALLATION           DISCHARGE TEST ON INTERNAL FUSES         SINTALAGE           VOLTAGE TEST BETWEEN TERMINALS         2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC, 10 s           VOLTAGE TEST DETST         MEASUREMENT OF LOSSES (TAN a)         AT RATED VOLTAGE           CAPACITANCE MEASUREMENTS         AT RATED VOLTAGE         SINTALAGE           STANDARD TEMPERATURE CATEGORY -25/B         UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C           HIGHEST MEAN OVER 1 YEAR +25 °C         HIGHEST MEAN OVER 1 YEAR +25 °C           INSTALLATION         OUTDOOR OR INDOOR         OUTDOOR OR INDOOR           INSTALLATION         OUTDOOR OR INDOOR         DEPENDING STELE PLATE 15 SINTENT CEATORY           INSTALLATION         OUTDOOR OR INDOOR         REACKETS ON THE NAROWER SIDES. CONTACT FACTORY           INSTALLATION         OUTDOOR OR INDOOR         REACKETS ON THE NAROWER SIDES. CONTACT FACTORY           INSTALLATION         OUTOCOMPONENT DURABLE PLATE 15 SINTENT CATE OR TWO OUTING         REACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SUCTS 11 X 20 mm           INSTALLATION         DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO OUTING         BRACKET	IMPREGNATING FLUID	ENVIRONMENTALLY COMPATIBLE IMPREGNATING OIL BASED ON M/DBT (NON – PCB)							
MAXIMUM PERMISSIBLE VOLTAGE         1.1 × Un CONTINUOUSLY           ROUTINE TESTS         SEALING TEST           DISCHARGE TEST ON INTERNAL FUSES         (INTERNALLY FUSED CAPACITORS ONLY)           VOLTAGE TEST BETWEEN TERMINALS         2.0 × RATED VOLTAGE AC, 10 s OR 4.0 × RATED VOLTAGE DC, 10 s           DISCHARGE RESISTOR TEST            MEASUREMENT OF LOSSES (TAN 8)         AT RATED VOLTAGE           CAPACITANCE MEASUREMENTS         AT RATED VOLTAGE           SERVICE CONDITIONS            STANDARD TEMPERATURE CATEGORY -25/B         UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C           HIGHEST MEAN OVER 24 h -33 °C         HIGHEST MEAN OVER 14 h -33 °C           INSTALLATION         OUTDOOR NON INDOR           CASE MATERIAL         TOOU MAX, FOR HIGHEST LEVERATURE LIMITS MAXIMUM +45 °C           INSTALLATION         OUTDOOR ON INDOR           CASE MATERIAL         TOOU MAX, FOR HIGHEST ALITODES, PLEASE CONTACT FACTORY           CASE MATERIAL         STANLESS STELE PLATE 1.5 mm THICK, WMr. 1.4301           FINISH/COLOUR         TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262 (LIGHT GREEN) OR RAL 7332 (LIGHZ GRAY), ON TREATED SURFACE           EVENING         DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm           EBUSHINGS         BROWN OR GRAY PORCELAN BUSHINGS, WELDED TO THE CONTAINER AN	PERMISSIBLE OVERLOADS								
ROUTINE TESTS           SEALING TEST           DISCHARGE TEST ON INTERNAL FUSES           (INTERNALLY FUSED CAPACITORS ONLY)           VOLTAGE TEST DETWEEN TERMINALS           DISCHARGE RESISTOR TEST           MEASUREMENT OF LOSSES (TAN 8)           CAPACITANCE MEASUREMENTS           SERVICE CONDITIONS           STANDARD TEMPERATURE CATEGORY -25/B           UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C           HIGHEST MEAN OVER 24 h +35 °C           LOWEST AMBIENT AIR OPERATING TEMPERATURE -25 °C           INSTALLATION           OUTDOOR OR INDOOR           CASE MATERIAL           TOWO COMPONENT DURABLE PAINTING FRAMEWER TEMPERATURE -25 °C           INSTALLATION           OUTDOOR OR INDOOR           INSTALLATION           OUTDOOR OR INDOOR           INSTALLATION           TWO COMPONENT DURABLE PAINTING FRAMEWER ALTITUDES, PLEASE CONTACT FACTORY           CASE MATERIAL           EINSH/COLOUR           TWO COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7332 (LIGH-Z GRW), ON TREATED SURFACE           FIXING           DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS AND CONNECTIONS           BUSHINGS         BROWN OR GRAP PORCELAN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLD TERMINAL STUDS, P	MAXIMUM PERMISSIBLE CURRENT	1.3 x In CONTINUOUSLY							
SEALING TEST         Internal FUSEs           DISCHARGE TEST ON INTERNAL FUSES         (INTERNALLY FUSED CAPACITORS ONLY)           VOLTAGE TEST BETWEEN TERMINALS         2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC, 10 s           DISCHARGE RESISTOR TEST            MEASUREMENT OF LOSSES (TAN 8)         AT RATED VOLTAGE           CAPACITANCE MEASUREMENTS         AT RATED VOLTAGE           SERVICE CONDITIONS            STANDARD TEMPERATURE CATEGORY -25/B         UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C           HIGHEST MEAN OVER 24 h +35 °C         HIGHEST MEAN OVER 24 h +35 °C           HIGHEST MEAN OVER 14 RA +25 °C         LOWEST AMBIENT AIR OPERATURE -25 °C           INSTALLATION         OUTDOOR OR INDOOR           INSTALLATION         OUTDOOR OR INDOOR           INSTALLATION         TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262 (LIGHT GREEN) OR RAL 7023 (LIGHT GRA9, ON TREATED SURFACE           FINISH/COLOUR         TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262 (LIGHT GREEN) OR RAL 7023 (LIGH	MAXIMUM PERMISSIBLE VOLTAGE	1.1 x Un CONTINUOUSLY							
DISCHARGE TEST ON INTERNAL FUSES         (INTERNALLY FUSED CAPACITORS ONLY)           VOLTAGE TEST BETWEEN TERMINALS         2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC, 10 s           DISCHARGE RESISTOR TEST         Image: Comparing the c	ROUTINE TESTS								
VOLTAGE TEST BETWEEN TERMINALS         2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC, 10 s           DISCHARGE RESISTOR TEST            MEASUREMENT OF LOSSES (TAN 8)         AT RATED VOLTAGE           CAPACITANCE MEASUREMENTS         AT RATED VOLTAGE           SERVICE CONDITIONS            STANDARD TEMPERATURE CATEGORY -25/B         UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C           HIGHEST MEAN OVER 14 HAS °C         HIGHEST MEAN OVER 14 HAS °C           HIGHEST MEAN OVER 14 NAN OVER 14 NAS °C         HIGHEST MEAN OVER 14 NAS °C           INSTALLATION         OUTDOOR OR INDOOR           INSTALLATION ALTITUDE         1000 m MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY           CASE MATERIAL         STAINLESS STEEL PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY) ON TREATED SURFACE           FINISH/COLOUR         TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY) ON TREATED SURFACE           FIXING         DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SULD TERMINAL STUDS, PREVENT FLUID LEAKS           THREAD OF TERMINAL STUD         MAY 180 A           CONNECTIONS         BROWN OR GRAP PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLD TERMINAL STUDS, PREVENT FLUID LEAKS           THERAD OF TERMINAL STUD         MAY 180 A           CON	SEALING TEST								
DISCHARGE RESISTOR TEST MEASUREMENT OF LOSSES (TAN &) AT RATED VOLTAGE CAPACITANCE MEASUREMENTS SERVICE CONDITIONS STANDARD TEMPERATURE CATEGORY -25/B UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C HIGHEST MEAN OVER 24 h +35 °C HIGHEST MEAN OVER 24 h +35 °C LOWEST AMBIENT AN OVER 24 h +35 °C LOWEST AMBIENT AN OVER 14 PEAR +25 °C INSTALLATION UTDOOR OR INDOOR INSTALLATION ALTITUDE UDVEST AMBIENT AN OVER 14 PEAR +25 °C INSTALLATION OUTDOOR OR INDOOR INSTALLATION ALTITUDE UVOCOMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACE FIXING DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLIDTS TI X 20 mm TERMINALS AND CONNECTIONS BUSHINGS BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEASE CONNECTIONS TERMINAL STUD TERMINAL STUD TERMINAL STUD TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE. NAMEPLATES DURABLE PLASTIC LABLE WITH PREMAINENT PRINTING QUALITY ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	DISCHARGE TEST ON INTERNAL FUSES	(INTERNALLY FUSED CAPACITORS ONLY)							
MEASUREMENT OF LOSSES (TAN &)       AT RATED VOLTAGE         CAPACITANCE MEASUREMENTS       AT RATED VOLTAGE         SERVICE CONDITIONS       Image: Condition of the contained of the co	VOLTAGE TEST BETWEEN TERMINALS	2.0 x RATED VOLTAGE AC, 10 s OR 4.0 x RATED VOLTAGE DC , 10 s							
CAPACITANCE MEASUREMENTS       AT RATED VOLTAGE         SERVICE CONDITIONS       UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C         HIGHEST MEAN OVER 24 h +35 °C       HIGHEST MEAN OVER 24 h +35 °C         INSTALLATION       UPPER AMBIENT AIR OPERATURE TEMPERATURE -25 °C         INSTALLATION ALTITUDE       LOWEST AMBIENT AIR OPERATING TEMPERATURE -25 °C         INSTALLATION ALTITUDE       1000 m MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY         CASE MATERIAL       STAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301         FINISH/COLOUR       TWO-COMPONENT DURABLE PAINTING RAL 602 OR PANTONE 3262 (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACE         FIXING       DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING         BUSHINGS       BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm         TERMINALS AND CONNECTIONS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLD TERMINAL STUDS, PREVENT FLUID LEAKS         THRAD OF TERMINAL STUD       M14 OR M16         CURRENT       CONNECTIONS         TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM         4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm²         CONDUCTORS ARE ALSO AVAILABLE.       MURABLE PLASTIC LABEL WITH PREMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND	DISCHARGE RESISTOR TEST								
SERVICE CONDITIONS           STANDARD TEMPERATURE CATEGORY -25/B         UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C           HIGHEST MEAN OVER 24 h +35 °C         HIGHEST MEAN OVER 24 h +35 °C           HIGHEST MEAN OVER 1 YEAR +25 °C         LOWEST AMBIENT AIR OPERATING TEMPERATURE -25 °C           INSTALLATION         OUTDOOR OR INDOOR           INSTALLATION ALTITUDE         1000 m MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY           CASE MATERIAL         STAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301           FINISH/COLOUR         TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTORE 3262 (LIGHT GREN) OR RAW 7032 (LIGHZ GRAY), ON TREATED SURFACE           FIXING         DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm           TERMINALS AND CONNECTIONS         BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS THREAD OF TERMINAL STUD           THREAD OF TERMINAL STUD         TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND, TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.           NAMEPLATES         OURABLE PLASTIC LABEL WITH PERMANENT PRINTING           QUALITY         ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	MEASUREMENT OF LOSSES (TAN δ)	AT RATED VOLTAGE							
STANDARD TEMPERATURE CATEGORY -25/B       UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C         HIGHEST MEAN OVER 24 h +35 °C       HIGHEST MEAN OVER 1 YEAR +25 °C         INSTALLATION       UDWEST AMBIENT AIR OPERATING TEMPERATURE -25 °C         INSTALLATION ALTITUDE       1000 m MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY         CASE MATERIAL       STAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301         FINISH/COLOUR       TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACE         FIXING       DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm         TERMINALS AND CONNECTIONS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         THREAD OF TERMINAL STUD       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       OUTABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	CAPACITANCE MEASUREMENTS	AT RATED VOLTAGE							
HIGHEST MEAN OVER 24 h +35 °C         HIGHEST MEAN OVER 1 YEAR +25 °C         INSTALLATION         INSTALLATION         INSTALLATION         INSTALLATION         OUTDOOR OR INDOOR         INSTALLATION         INSTALLATION         CASE MATERIAL         FINISH/COLOUR         TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAM), ON TREATED SURFACE         FIXING         DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES, BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm         BUSHINGS       BROWN OR GRAP PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDD, REEVENT FLUID LEAKS         THREAD OF TERMINAL STUD       MAX 180 A         CURRENT       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM A mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       OLURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	SERVICE CONDITIONS								
HIGHEST MEAN OVER 1 YEAR +25 °CINSTALLATIONLOWEST AMBIENT AIR OPERATING TEMPERATURE -25 °CINSTALLATION ALITUDEOUTDOOR OR INDOORINSTALLATION ALITUDE1000 m MAX. FOR HIGHER ALITUDES, PLEASE CONTACT FACTORYCASE MATERIALSTAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301FINISH/COLOURTWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACEFIXINGDEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTINGBRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mmTERMINALS AND CONNECTIONSBROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDD, PREVENT FLUID LEAKSTHREAD OF TERMINAL STUDDMON OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKSCONNECTIONSTERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.NAMEPLATESODURABLE PLASTIC LABEL WITH PREMANENT PRINTINGQUALITYISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	STANDARD TEMPERATURE CATEGORY -25/B	UPPER AMBIENT TEMPERATURE LIMITS MAXIMUM +45 °C							
LOWEST AMBIENT AIR OPERATING TEMPERATURE -25 °CINSTALLATIONOUTDOOR OR INDOORINSTALLATION ALTITUDEOUTDOOR MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORYCASE MATERIALSTAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301FINISH/COLOURTWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262 (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACEFIXINGDEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mmTERMINALS AND CONNECTIONSBROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDD, PREVENT FLUID LEAKS THREAD OF TERMINAL STUDCONNECTIONSTERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE. ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.NAMEPLATESOURABLE PLASTIC LABEL WITH PERMANENT PRINTINGQUALITYISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)		HIGHEST MEAN OVER 24 h +35 °C							
INSTALLATION       OUTDOOR OR INDOOR         INSTALLATION ALTITUDE       1000 m MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY         CASE MATERIAL       STAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301         FINISH/COLOUR       TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACE         FIXING       DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm         TERMINALS AND CONNECTIONS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDD, PREVENT FLUID LEAKS         THREAD OF TERMINAL STUD       M14 OR M16         CURRENT       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       DURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)		HIGHEST MEAN OVER 1 YEAR +25 °C							
INSTALLATION ALTITUDE       1000 m MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY         CASE MATERIAL       STAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301         FINISH/COLOUR       TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACE         FIXING       DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm         TERMINALS AND CONNECTIONS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         THREAD OF TERMINAL STUD       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         CONNECTIONS       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       OURABLE PLASTIC LABEL WITH PREMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)		LOWEST AMBIENT AIR OPERATING TEMPERATURE -25 °C							
CASE MATERIALSTAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301FINISH/COLOURTWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACEFIXINGDEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mmTERMINALS AND CONNECTIONSBROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS THREAD OF TERMINAL STUDCURRENTBROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS THERMINAL STUDCONNECTIONSTERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.NAMEPLATESDURABLE PLASTIC LABEL WITH PERMANENT PRINTINGQUALITYISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	INSTALLATION	OUTDOOR OR INDOOR							
Initial contents       Two-component Durable Painting RaL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACE         FINISH/COLOUR       DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm         TERMINALS AND CONNECTIONS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         THREAD OF TERMINAL STUD       M14 OR M16         CURRENT       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       DURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	INSTALLATION ALTITUDE	1000 m MAX. FOR HIGHER ALTITUDES, PLEASE CONTACT FACTORY							
FIXING       DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm         TERMINALS AND CONNECTIONS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         THREAD OF TERMINAL STUD       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         CURRENT       MAX. 180 A         CONNECTIONS       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm <sup>2</sup> SOLID TO 50 mm <sup>2</sup> STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm <sup>2</sup> CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       DURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	CASE MATERIAL	STAINLESS STEEL PLATE 1.5 mm THICK, W.Nr. 1.4301							
BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm         TERMINALS AND CONNECTIONS         BUSHINGS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         THREAD OF TERMINAL STUD       M14 OR M16         CURRENT       MAX. 180 A         CONNECTIONS       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM         4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm²         CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       DURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	FINISH/COLOUR	TWO-COMPONENT DURABLE PAINTING RAL 6027 OR PANTONE 3262C (LIGHT GREEN) OR RAL 7032 (LIGHZ GRAY), ON TREATED SURFACE							
TERMINALS AND CONNECTIONS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         THREAD OF TERMINAL STUD       M14 OR M16         CURRENT       MAX. 180 A         CONNECTIONS       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       DURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	FIXING	DEPENDING ON THE HEIGHT OF CAPACITOR, CONTAINER IS EQUIPED WITH ONE OR TWO MOUNTING							
BUSHINGS       BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS         THREAD OF TERMINAL STUD       M14 OR M16         CURRENT       MAX. 180 A         CONNECTIONS       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM         4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm²         NAMEPLATES       OUVRABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)		BRACKETS ON THE NAROWER SIDES. BRACKETS HAVE MOUNTING SLOTS 11 X 20 mm							
THREAD OF TERMINAL STUD       M14 OR M16         CURRENT       MAX. 180 A         CONNECTIONS       TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       DURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	TERMINALS AND CONNECTIONS								
CURRENT         MAX. 180 A           CONNECTIONS         TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.           NAMEPLATES         DURABLE PLASTIC LABEL WITH PERMANENT PRINTING           QUALITY         ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	BUSHINGS	BROWN OR GRAY PORCELAIN BUSHINGS, WELDED TO THE CONTAINER AND HAVING SOLID TERMINAL STUDS, PREVENT FLUID LEAKS							
CONNECTIONS         TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM 4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm² CONDUCTORS ARE ALSO AVAILABLE.           NAMEPLATES         DURABLE PLASTIC LABEL WITH PERMANENT PRINTING           QUALITY         ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	THREAD OF TERMINAL STUD	M14 OR M16							
4 mm² SOLID TO 50 mm² STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm²         CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       DURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	CURRENT	 MAX. 180 A							
CONDUCTORS ARE ALSO AVAILABLE.         NAMEPLATES       DURABLE PLASTIC LABEL WITH PERMANENT PRINTING         QUALITY       ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)	CONNECTIONS	TERMINAL CLAMPS WITH PROVISION TO ACCOMMODATE ANY COMBINATION OF 2 CONDUCTORS FROM							
NAMEPLATESDURABLE PLASTIC LABEL WITH PERMANENT PRINTINGQUALITYISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)		4 mm <sup>2</sup> SOLID TO 50 mm <sup>2</sup> STRANDED WIRE ARE AVAILABLE ON DEMAND. TERMINAL CLAMPS FOR 70 mm <sup>2</sup>							
QUALITY         ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)		CONDUCTORS ARE ALSO AVAILABLE.							
	NAMEPLATES	DURABLE PLASTIC LABEL WITH PERMANENT PRINTING							
STANDARDS IEC 60871-1: 2014 ; IEEE Std 18: 2012	QUALITY	ISKRA D.D. IS CERTIFIED ACCORDING TO ISO 9001 (QUALITY) AND ISO 14001 (ENVIRONMENT)							
	STANDARDS	IEC 60871-1: 2014 ; IEEE Std 18: 2012							

# PFC CAPACITORS FOR HIGH VOLTAGE -KLV 12xxP, KLV 32xxP

## TYPICAL DIMENSIONS

#### KLV 1xx1P (1xxoP) in 3xx1P, SINGLE-PHASE CAPACITORS

Q <sub>N</sub>	U <sub>N</sub>	U <sub>N</sub>	DIMENSIONS (mm)						WEIGHT	WEIGHT*
AT 50 Hz	KLV 1xxxP (without internal fuses)	KLV 3xxxP (internally fused)	А	A B B* C			D	D		
(kvar)	(kV)	(kV)					BIL 75 - 95 kV	BIL 125 kV	(kg)	(kg)
100	2.0 - 16.5 (20)	2.0 - 2.4	145	240	270	120 <sup>2R</sup>	240	315	20	22
150	2.0 - 16.5 (20)	2.0 - 4.8	145	325	370	200 <sup>2R</sup>	240	315	26	29
200	2.0 - 16.5 (20)	2.0 - 4.8	145	415	450	200 <sup>2R</sup>	240	315	32	36
250	2.27 - 16.5 (20)	2.27 - 7.2	145	500	540	200 <sup>2R</sup>	240	315	39	41
300	2.72 - 16.5 (20)	2.72 - 7.2	145	570	640	200 <sup>2R</sup>	240	315	44	49
350	3.18 - 16.5 (20)	3.18 - 9.6	145	640	700	200 <sup>2R</sup>	240	315	49	53
400	3.64 - 16.5 (20)	3.64 - 9.6	145	720	800	200 <sup>2R</sup>	240	315	55	60
450	4.1 - 16.5 (20)	4.1 - 12	175	680	725	100 <sup>4R</sup>	240	315	62	66
500	4.56 - 16.5 (20)	4.56 - 14.4	175	740	800	100 <sup>4R</sup>	240	315	67	73
550	5.00 - 16.5 (20)	5.00 - 14.4	175	825	880	100 <sup>4R</sup>	240	315	75	79
600	5.46 - 16.5 (20)	5.46 - 14.4	175	880	940	100 <sup>4R</sup>	240	315	79	84
670	6.09 - 16.5 (20)	5.46 - 14.4	175	940	1000	100 <sup>4R</sup>	240	315	85	90
										-

#### NOTES:

\* Dimensions with an asterisk (\*) refer to internally fused capacitors

Voltage in parenthesis () refer to one-bushing capacitors only 1)

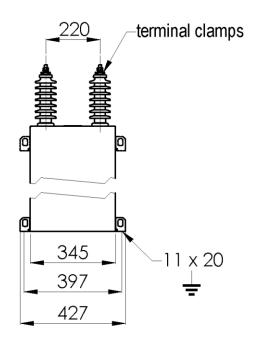
For output and voltage outside this range, please contact factory 2)

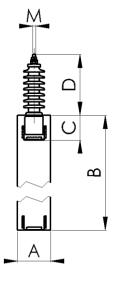
Case sizes are typical and actual sizes will be confirmed at the time of order 3)

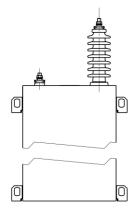
Capacitor container could have 2 or 4 brackets (1 or 2 brackets on narrow side) 4) Dimension C - 2R means 1 bracket from each side (capacitor type KLVxxx1P); 4R means 2 brackets on each side, one on the top and one on the bottom, except where the height is 310mm or below, where brackets are on the bottom only (type KLVxxx2 P).

5) Dim A may expand up to 115% due to thermal flexure

6) Power at 60Hz = 1,2 x power at 50Hz









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