

EUORack TRAYS



DESIGN FEATURES

Every tray is complete of:

- Capacitor Duty Contactors (230Vac coil).
- Self-extinguish cable harness according to EN 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- Three phase self-healing polypropylene capacitors with 525V rated voltage (FH only).
- Three-phase tinned copper bus bar system
- Discharge resistors.
- Three phase detuning chokes (FH only) with dedicated frequency detuning; each coil winding temperature sensor and NC switch.
- All components inside these products are compliant with EU Safety Regulations

STANDARD ACCESSORIES

(supplied along with each tray)

- Side rack support brackets, suitable for 600-400 mm depth cabinets
- Connecting tinned copper bars and bolts,
- IP20 plexiglass protection.

OPTION

- Adaptation bracket, for fitting of 600 mm width trays in 800 mm width cabinets, and 800 mm width trays in 1000 mm width cabinets.

GENERAL CHARACTERISTICS

EUORack system is ideal solution for OEM and switchgears manufacturers, they are indeed suitable to the most common switchgears sizes, in addition:

- EUROrack is compact and with high power density,
- EUROrack is available detuned and not detuned,
- Powers from 12,5 kvar to 100kvar in a single tray.
- Bus bars suitable to bear up to 400kvar detuned or not detuned.
- Easy to assembly as power bus bars and NH fuses are incorporated in the tray support.

EUORacks are sound for plants where the current Total Harmonic Distortion is as much as 100% (detuned FH30). EUROracks are equipped with ICAR high energy density metallised polypropylene capacitors which assure elevated performances with low losses and small dimensions.

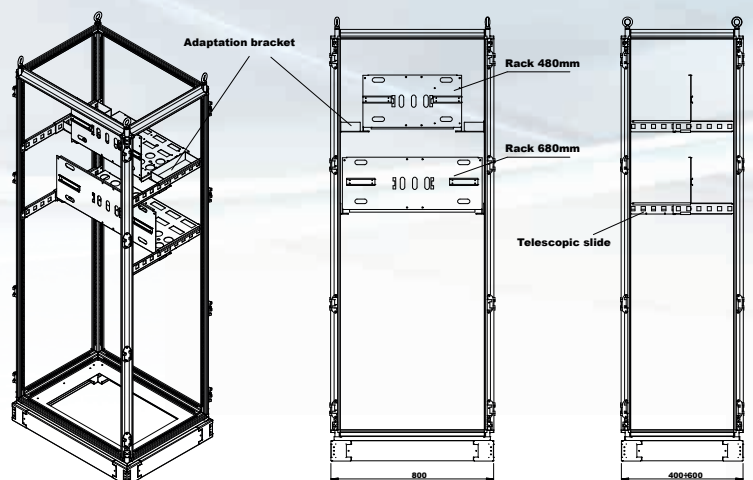
CABINET FITTING

EUORacks FH trays are easy to fit inside any standard cabinet thanks to sliding and adjustable side supports. These brackets enable EUROracks to be used in variable dept cabinet, i.e. 400 mm (HP only) and 600 mm.

Furthermore thanks to extensible brackets, 480 mm width racks could be also fitted in 800 mm width cabinet (see drawing below), allowing a very flexible combination of steps and total reactive power.

The maximum reactive power the bus bar system can bear is 400kvar 415V 50Hz, both detuned and not detuned. Extensions of additional trays is possible at any time.

Every rack auxiliary and control component is supplied already wired to the terminal board, which is available on a DIN rail of any tray support.



U_e	U_N	U_{MAX}^1	f	THDI _R %
400-415V	415V	455V	50 Hz	≤10%



TECHNICAL CHARACTERISTICS

Rated operational voltage	$U_e= 400-415V$
Rated frequency	50 Hz
Max current overload I_n (tray)	$1.3xI_n$
Max voltage overload V_n (bank)	$1.1xV_n$
Max current overload I_n (capacitors)	$2xI_n$
Max current overload V_n (capacitors)	$1,3 V_n$
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge resistors	on each capacitor
Use	indoor
Service	continuo/continuous
Capacitors connection	delta
Switching devices	Capacitor duty contactors (AC6b)
Total Tray losses	2 W/kvar
Capacitor Dielectric losses	0,2 W/kvar
Inner surface finish	zinc passivation
Tray Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitor Applicable standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion, without capacitors installed, has values lower than 10%. Use of high energy density metallised polypropylene capacitors assures elevated performances, high resistance to strong voltage overload, low losses and small dimensions.

Generalities:

- Contactors with damping resistors to limit capacitors' inrush current (230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/2212 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- $3U_1$ three phase self-healing polypropylene capacitors with 415V rated voltage.
- Discharge devices.
- Degree of protection: IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	POWER $U_N=415V$ (kvar)	POWER $U_N=415V$ (kvar)	POWER $U_e=400V$ (kvar)	STEPS $U_e=400V$ (kvar)	DIM IP20 WxHxD (mm)	OVERALL DRAWING
IY0AKK225050359	25	25	25	25	480x275x340	93, 95
IY0AKK250050359	50	50	50	2x25	480x275x340	93, 95
IY0AKK275050359	75	75	75	3x25	480x275x340	93, 95
IY0AKK310050359	100	100	100	4x25	480x275x340	93, 95
IY0AKK312550359	125	125	125	5x25	680x275x336	94, 96
IY0AKK315050359	150	150	150	6x25	680x275x336	94, 96

U_e : power factor correction bank working voltage

U_N : capacitors rated voltage

U_{MAX} : capacitor admissible maximum voltage

THDI_R%: current total harmonic distortion of the plant

U _e	U _N	U _{MAX} ¹	f	THDI _R %
400-415V	450V	445V	50 Hz	≤18%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U _e = 400-415V
Rated frequency	50Hz
Max current overload I _n (tray)	1.3xI _n
Max voltage overload V _n (bank)	1.1xV _n
Max current overload I _n (capacitors)	2xI _n
Max current overload V _n (capacitors)	1,3 V _n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge resistors	on each capacitor
Use	indoor
Service	continuo/continous
Capacitors connection	delta
Switching devices	Capacitor duty contactors (AC6b)
Total Tray losses	2 W/kvar
Capacitor Dielectric losses	0,2 W/kvar
Inner surface finish	zinc passivation
Tray Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitor Applicable standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion, without capacitors installed, has values lower than 18%. Use of high energy density metallised polypropylene capacitors assures elevated performances, high resistance to strong voltage overload, low losses and small dimensions.

Generalities:

- Contactors with damping resistors to limit capacitors' inrush current (230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/2212 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- 3U₁ three phase self-healing polypropylene capacitors with 450V rated voltage.
- Discharge devices.
- Degree of protection: IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	POWER U _N =450V (kvar)	POWER U _e =415V (kvar)	POWER U _e =400V (kvar)	STEPS U _e =400V (kvar)	DIM IP20 WxHxD (mm)	OVERALL DRAWING
IY0JHK230050359	30	26	25	25	480x275x340	93, 95
IY0JHK260050359	60	52	50	2x25	480x275x340	93, 95
IY0JHK290050359	90	78	75	3x25	480x275x340	93, 95
IY0JHK312050359	120	104	100	4x25	480x275x340	93, 95
IY0JHK315050359	150	134	125	5x25	680x275x336	94, 96
IY0JHK318050359	180	160	150	6x25	680x275x336	94, 96

U_e: power factor correction bank working voltage

U_N: capacitors rated voltage

U_{MAX}¹: capacitor admissible maximum voltage

THDI_R%: current total harmonic distortion of the plant

U_e	U_N	U_{MAX}^1	f	THDI _R %
400-415V	525V	58V	50 Hz	≤25%



TECHNICAL CHARACTERISTICS

Rated operational voltage	$U_e = 400-415V$
Rated frequency	50Hz
Max current overload I_n (tray)	$1.3 \times I_n$
Max voltage overload V_n (bank)	$1.1 \times V_n$
Max current overload I_n (capacitors)	$2 \times I_n$
Max current overload V_n (capacitors)	$1,3 V_n$
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge resistors	on each capacitor
Use	indoor
Service	continuo/continuous
Capacitors connection	delta
Switching devices	Capacitor duty contactors (AC6b)
Total Tray losses	2 W/kvar
Capacitor Dielectric losses	0,2 W/kvar
Inner surface finish	zinc passivation
Tray Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitor Applicable standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion, without capacitors installed, has values lower than 25%. Use of high energy density metallised polypropylene capacitors assures elevated performances, high resistance to strong voltage overload, low losses and small dimensions.

Generalities:

- Contactors with damping resistors to limit capacitors' inrush current (230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/2212 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- $3U_1$ three phase self-healing polypropylene capacitors with 525V rated voltage.
- Discharge devices.
- Degree of protection IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	POWER $U_N = 525V$ (kvar)	POWER $U_e = 415V$ (kvar)	POWER $U_e = 400V$ (kvar)	STEPS $U_e = 400V$ (kvar)	DIM IP20 WxHxD (mm)	OVERALL DRAWING
IY0SQK230050359	30	19	17.5	17.5	480x275x340	93, 95
IY0SQK260050359	60	38	35	2x17.5	480x275x340	93, 95
IY0SQK290050359	90	57	52.5	3x17.5	480x275x340	93, 95
IY0SQK312050359	120	76	70	4x17.5	480x275x340	93, 95
IY0SQK315050359	150	94	87.5	5x17.5	680x275x336	94, 96
IY0SQK318050359	180	112	105	6x17.5	680x275x336	94, 96

U_e : power factor correction bank working voltage

U_N : capacitors rated voltage

U_{MAX}^1 : capacitor admissible maximum voltage

THDI_R%: current total harmonic distortion of the plant



FH05

U _e	f	THDI _R %	f _N	p
400-415V	50 Hz	≤20%	215 Hz	5,4%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U_e= 400-415V
Rated frequency	50Hz
Max current overload I _n (tray)	1.3xI_n
Max voltage overload V _n (bank)	1.1xV_n
Max current overload I _n (capacitors)	2xI_n
Max current overload V _n (capacitors)	1,3 V_n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge resistors	on each capacitor
Use	indoor
Service	continuo/continous
Capacitors connection	delta
Switching devices	Capacitor duty contactors
Total Tray losses	6 W/kvar
Capacitor Dielectric losses	0,2 W/kvar
Inner surface finish	zinc passivation
Tray Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitor Applicable standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion has values up to 20%. Use of high energy density metallised polypropylene capacitors assures elevated performances with low losses and small dimensions.

Generalities:

- Contactors(230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/22/2 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- Series 3U, three phase self-healing polypropylene capacitors with 525V rated voltage.
- Discharge devices.
- Three phase detuning choke with tuning frequency 215 Hz.
- Degree of protection: IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	POWER U _e =415V (kvar)	POWER U _e =400V (kvar)	STEPS U _e =400V (kvar)	DIM IP20 WxHxD (mm)	OVERALL DRAWING
IY7HFK212550368	13.5	12.5	12.5	480x275x450	91, 97
IY7HFK218850368	20	18.75	6.25-12.5	480x275x450	91, 97
IY7HFK225050369	27	25	2x12.5	480x275x450	91, 97
IY7HFK225050368	27	25	25	480x275x450	91, 97
IY7HFK250050425	54	50	2x25	480x275x450	91, 97
IY7HFK250050368	54	50	50	480x275x450	91, 97
IY7HFK275050368	80	75	25-50	680x275x450	92, 98
IY7HFK310050368	107	100	50-50	680x275x450	92, 98

U_e: power factor correction bank working voltage
 THDI_R%: current total harmonic distortion of the plant

U _e	f	THDI _R %	f _N	p
400-415V	50 Hz	≤60%	180 Hz	7,7%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U _e = 400-415V
Rated frequency	50Hz
Max current overload I _n (tray)	1.3xI _n
Max voltage overload V _n (bank)	1.1xV _n
Max current overload I _n (capacitors)	2xI _n
Max current overload V _n (capacitors)	1,3 V _n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge resistors	on each capacitor
Use	indoor
Service	continuo/continous
Capacitors connection	delta
Switching devices	Capacitor duty contactors
Total Tray losses	6 W/kvar
Capacitor Dielectric losses	0,2 W/kvar
Inner surface finish	zinc passivation
Tray Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitor Applicable standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion, without capacitors installed, has values lower than 60%. Use of high energy density metallised polypropylene capacitors assures elevated performances, high resistance to strong voltage overload, low losses and small dimensions.

Generalities:

- Contactors with damping resistors to limit capacitors' inrush current (230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/2212 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- 3U_l three phase self-healing polypropylene capacitors with 450V rated voltage.
- Discharge devices.
- Three phase detuning choke with tuning frequency 180 Hz
- Degree of protection: IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	POWER U _e =415V (kvar)	POWER U _e =400V (kvar)	STEPS U _e =400V (kvar)	DIM IP20 WxHxD (mm)	OVERALL DRAWING
IY7TFK212550360	13.5	12.5	12.5	480x275x450	91, 97
IY7TFK218850360	20	18.75	6.25-12.5	480x275x450	91, 97
IY7TFK225050362	27	25	2x12.5	480x275x450	91, 97
IY7TFK225050360	27	25	25	480x275x450	91, 97
IY7TFK250050422	54	50	2x25	480x275x450	91, 97
IY7TFK250050360	54	50	50	480x275x450	91, 97
IY7TFK275050360	80	75	25-50	680x275x450	92, 98
IY7TFK310050360	107	100	50-50	680x275x450	92, 98

U_e: power factor correction bank working voltage

THDI_R%: current total harmonic distortion of the plant



FH30

U _e	f	THDI _R %	f _N	p
400-415V	50 Hz	100%	135 Hz	13,7%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U_e= 400-415V
Rated frequency	50Hz
Max current overload I _n (tray)	1.3xI_n
Max voltage overload V _n (bank)	1.1xV_n
Max current overload I _n (capacitors)	2xI_n
Max current overload V _n (capacitors)	1,3 V_n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge resistors	on each capacitor
Use	indoor
Service	continuo/continous
Capacitors connection	delta
Switching devices	Capacitor duty contactors
Total Tray losses	6 W/kvar
Capacitor Dielectric losses	0,2 W/kvar
Inner surface finish	zinc passivation
Tray Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitor Applicable standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion, without capacitors installed, has values lower than 100%. Use of high energy density metallised polypropylene capacitors assures elevated performances, high resistance to strong voltage overload, low losses and small dimensions.

Generalities:

- Contactors with damping resistors to limit capacitors' inrush current (230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/2212 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- 3U_l three phase self-healing polypropylene capacitors with 450V rated voltage.
- Discharge devices.
- Three phase detuning choke with tuning frequency 180 Hz
- Degree of protection: IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	POWER U _e =415V (kvar)	POWER U _e =400V (kvar)	STEPS U _e =400V (kvar)	DIM IP20 WxHxD (mm)	OVERALL DRAWING
IY7NFK212550426	13.5	12.5	12.5	480x275x450	91, 97
IY7NFK218850426	20	18.75	6.25-12.5	480x275x450	91, 97
IY7NFK225050427	27	25	2x12.5	480x275x450	91, 97
IY7NFK225050426	27	25	25	480x275x450	91, 97
IY7NFK250050428	54	50	2x25	480x275x450	91, 97
IY7NFK250050426	54	50	50	480x275x450	91, 97
IY7NFK275050426	80	75	25-50	680x275x450	92, 98

U_e: power factor correction bank working voltage
 THDI_R%: current total harmonic distortion of the plant

HP20

(380V - 60Hz)

U _e	U _N	U _{MAX} ¹	f	THDI _R %
380V	450V	495V	60 Hz	≤18%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U_e = 380
Rated frequency	60Hz
Max current overload I _n (bank)	1.3xI_n
Max voltage overload V _n (bank)	1.1xV_n
Max voltage overload V _n (capacitors)	3xV_n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge device	on each capacitor
Use	indoor
Service	continuous
Capacitors connection	delta
Operation devices	capacitor duty contactors (AC6b)
Total Joule losses	~2W/kvar
Surface finish	galvanisation
Banks applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitors standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion, without capacitors installed, has values lower than 18%. Use of high energy density metallised polypropylene capacitors assures elevated performances, high resistance to strong voltage overload, low losses and small dimensions.

Generalities:

- Contactors with damping resistors to limit capacitors' inrush current (230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/2212 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- 3U_l three phase self-healing polypropylene capacitors with 450V rated voltage.
- Discharge devices.

Degree of protection: IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	Power (kvar) U _N =450V	Power (kvar) U _e =380V	Steps (kvar) U _e =380V	DIM IP20 WxHxD(mm)	OVERALL DRAWING
Contact us	36	25	25	480x275x340	93,95
Contact us	72	50	2x25	480x275x340	93,95
Contact us	108	75	3x25	480x275x340	93,95
Contact us	144	100	4x25	480x275x340	93,95

U_e: power factor correction bank working voltage

THDI_R%: current total harmonic distortion of the plant

HP30

(440V - 60Hz)

U_e	U_N	U_{MAX}^1	f	THDI _R %
440V	525V	580V	60 Hz	≤25%



TECHNICAL CHARACTERISTICS

Rated operational voltage	$U_e = 440V$
Rated frequency	60Hz
Max current overload I_n (bank)	$1.3 \times I_n$
Max voltage overload V_n (bank)	$1.1 \times V_n$
Max voltage overload V_n (capacitors)	$3 \times V_n$
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge device	on each capacitor
Use	indoor
Service	continuous
Capacitors connection	delta
Operation devices	capacitor duty contactors (AC6b)
Total Joule losses	~2W/kvar
Surface finish	galvanisation
Banks applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitors standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion without existing capacitors has values up to 25%. Use of high energy density metallised polypropylene capacitors assures elevated performances with low losses and small dimensions.

Generalities:

- Contactors (230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/22/2 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- Series 3U₁ three phase self-healing polypropylene capacitors with 525V rated voltage.
- Discharge devices.
- Degree of protection IP20.

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	Power (kvar) $U_N=525V$	Power (kvar) $U_e=440V$	Steps (kvar) $U_e=440V$	DIM IP20 WxHxD(mm)	OVERALL DRAWING
Contact us	36	25	25	480x275x340	93,95
Contact us	72	50	2x25	480x275x340	93,95
Contact us	108	75	3x25	480x275x340	93,95
Contact us	144	100	4x25	480x275x340	93,95

U_e : power factor correction bank working voltage

THDI_R%: current total harmonic distortion of the plant

HP30

(480V - 60Hz)

U_e	U_N	U_{MAX}^1	f	THDI _R %
480V	525V	580V	60 Hz	≤25%



TECHNICAL CHARACTERISTICS

Rated operational voltage	$U_e = 480V$
Rated frequency	60Hz
Max current overload I_n (bank)	$1.3xI_n$
Max voltage overload V_n (bank)	$1.1xV_n$
Max voltage overload V_n (capacitors)	$3xV_n$
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range	-25/+55°C
Discharge device	on each capacitor
Use	indoor
Service	continuous
Capacitors connection	delta
Operation devices	capacitor duty contactors (AC6b)
Total Joule losses	~2W/kvar
Surface finish	galvanisation
Banks applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitors standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion, without capacitors installed, has values lower than 25%. Use of high energy density metallised polypropylene capacitors assures elevated performances, high resistance to strong voltage overload, low losses and small dimensions.

Generalities:

- Contactors with damping resistors to limit capacitors' inrush current (230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/2212 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- 3U₁ three phase self-healing polypropylene capacitors with 525V rated voltage.
- Discharge devices.
- Degree of protection IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	Power (kvar) $U_N=525V$	Power (kvar) $U_e=480V$	Steps (kvar) $U_e=480V$	DIM IP20 WxHxD(mm)	OVERALL DRAWING
Contact us	30	25	25	480x275x340	93,95
Contact us	60	50	2x25	480x275x340	93,95
Contact us	90	75	3x25	480x275x340	93,95
Contact us	120	100	4x25	480x275x340	93,95

U_e : power factor correction bank working voltage

THDI_R%: current total harmonic distortion of the plant



FH20

(230V - 60Hz)

U _e	f	THDI _R %	f _N	P
230V	60 Hz	≤60%	227 Hz	7%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U_e= 230V
Rated frequency	60Hz
Max current overload I _n (bank)	1.3xI_n
Max voltage overload V _n (bank)	1.1xV_n
Max voltage overload V _n (capacitors)	3xV_n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range (capacitors)	-25/+55°C
Discharge device	on each capacitor
Use	indoor
Service	continous
Capacitors connection	delta
Operation devices	contactors
Total Joule losses	~6W/kvar
Inner surface finish	zinc passivation
Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitors standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion has values up to 60%. Use of high energy density metallised polypropylene capacitors assures elevated performances with low losses and small dimensions.

Generalities:

- Contactors(230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/22/2 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- Series 3U, three phase self-healing polypropylene capacitors with 525V rated voltage.
- Discharge devices.
- Three phase detuning choke with tuning frequency 227Hz.
- Degree of protection IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	Power (kvar) U _e =230V	Power (kvar) U _e =230V	DIM IP20 WxHxD(mm)	OVERALL DRAWING
Contact us	7,5	7,5	480x275x430	93,95
Contact us	15	2x7,5	480x275x430	93,95
Contact us	15	15	480x275x430	93,95

U_e: power factor correction bank working voltage
 THDI_R %: current total harmonic distortion of the plant

FH20

(380V - 60Hz)

U _e	f	THDI _R %	f _N	P
380V	60 Hz	≤60%	227 Hz	7%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U_e= 380V
Rated frequency	60Hz
Max current overload I _n (bank)	1.3xI_n
Max voltage overload V _n (bank)	1.1xV_n
Max voltage overload V _n (capacitors)	3xV_n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range (capacitors)	-25/+55°C
Discharge device	on each capacitor
Use	indoor
Service	continous
Capacitors connection	delta
Operation devices	contactors
Total Joule losses	~6W/kvar
Inner surface finish	zinc passivation
Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitors standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion has values up to 60%. Use of high energy density metallised polypropylene capacitors assures elevated performances with low losses and small dimensions.

Generalities:

- Contactors(230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/22/2 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- Series 3U, three phase self-healing polypropylene capacitors with 525V rated voltage.
- Discharge devices.
- Three phase detuning choke with tuning frequency 227Hz.
- Degree of protection: IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	Power (kvar) U _e =380V	Power (kvar) U _e =380V	DIM IP20 WxHxD(mm)	OVERALL DRAWING
Contact us	12,5	12,5	480x275x430	93,95
Contact us	25	2x12,5	480x275x430	93,95
Contact us	25	25	480x275x430	93,95
Contact us	50	50	480x275x430	93,95

U_e: power factor correction bank working voltage
 THDI_R%: current total harmonic distortion of the plant



FH20

(480V - 60Hz)

U _e	f	THDI _R %	f _N	P
480V	60 Hz	≤60%	227 Hz	7%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U_e= 480V
Rated frequency	60Hz
Max current overload I _n (bank)	1.3xI_n
Max voltage overload V _n (bank)	1.1xV_n
Max voltage overload V _n (capacitors)	3xV_n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range (capacitors)	-25/+55°C
Discharge device	on each capacitor
Use	indoor
Service	continous
Capacitors connection	delta
Operation devices	contactors
Total Joule losses	~6W/kvar
Inner surface finish	zinc passivation
Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitors standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion has values up to 60%. Use of high energy density metallised polypropylene capacitors assures elevated performances with low losses and small dimensions.

Generalities:

- Contactors(230Vac coil).
- N07V-K self-extinguish cable according to IEC 20/22/2 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- Series 3U, three phase self-healing polypropylene capacitors with 690V rated voltage.
- Discharge devices.
- Three phase detuning choke with tuning frequency 227Hz.
- Degree of protection: IP20

All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	Power (kvar) U _e =400V	Power (kvar) U _e =400V	DIM IP20 WxHxD(mm)	OVERALL DRAWING
Contact us	15	15	480x275x430	93,95
Contact us	30	30	480x275x430	93,95
Contact us	45	45	480x275x430	93,95

U_e: power factor correction bank working voltage
 THDI_R%: current total harmonic distortion of the plant

FH30

(380V - 60Hz)

U _e	f	THDI _R %	f _N	P
380V	60 Hz	≤100%	168 Hz	13%



TECHNICAL CHARACTERISTICS

Rated operational voltage	U_e= 380V
Rated frequency	60Hz
Max current overload I _n (bank)	1.3xI_n
Max voltage overload V _n (bank)	1.1xV_n
Max voltage overload V _n (capacitors)	3xV_n
Insulating voltage (bank)	690V
Capacitors insulating level	3/15kV
Temperature range (capacitors)	-25/+55°C
Discharge device	on each capacitor
Use	indoor
Service	continous
Capacitors connection	delta
Operation devices	contactors
Total Joule losses	~8W/kvar
Inner surface finish	zinc passivation
Applicable standards	IEC 60439-1/2 IEC 61921-1
Capacitors standards	IEC 60831-1/2

Main characteristics

Power factor correction banks indicated for the plants where the current harmonic distortion has values up to 100%. Use of high energy density metallised polypropylene capacitors assures elevated performances with low losses and small dimensions.

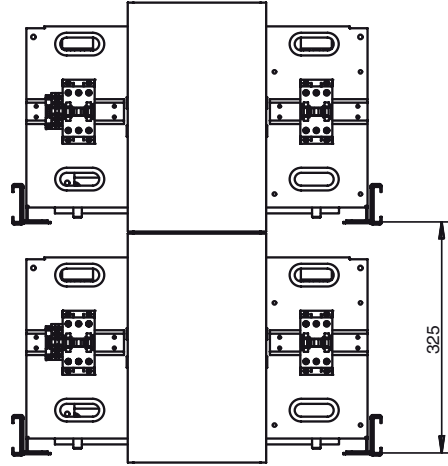
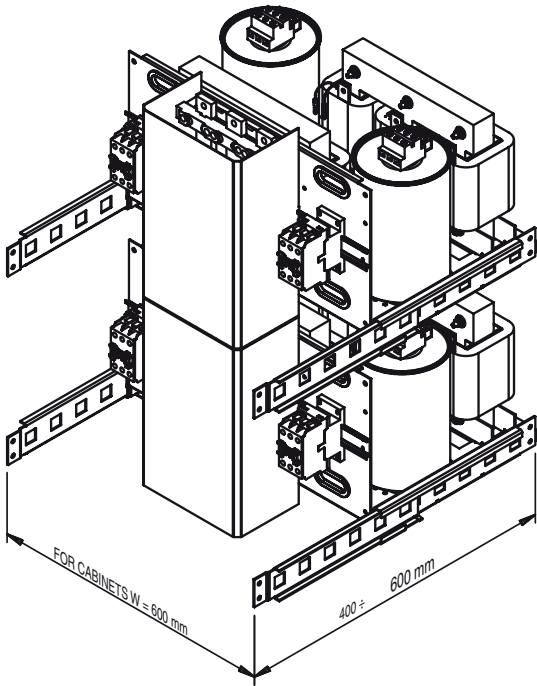
Generalities:

- Contactors(230Vaccoil).
- N07V-K self-extinguish cable according to IEC 20/22/2 – IEC 50267-2-1 standards.
- Three-phase fuse holder type NH00
- Power fuses NH00-gG
- Series 3U, three phase self-healing polypropylene capacitors with 525V rated voltage.
- Discharge devices.
- Three phase detuning choke with tuning frequency 168Hz.
- Degree of protection: IP20

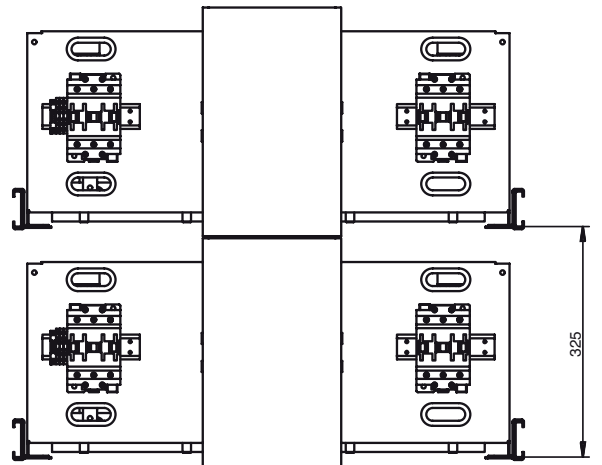
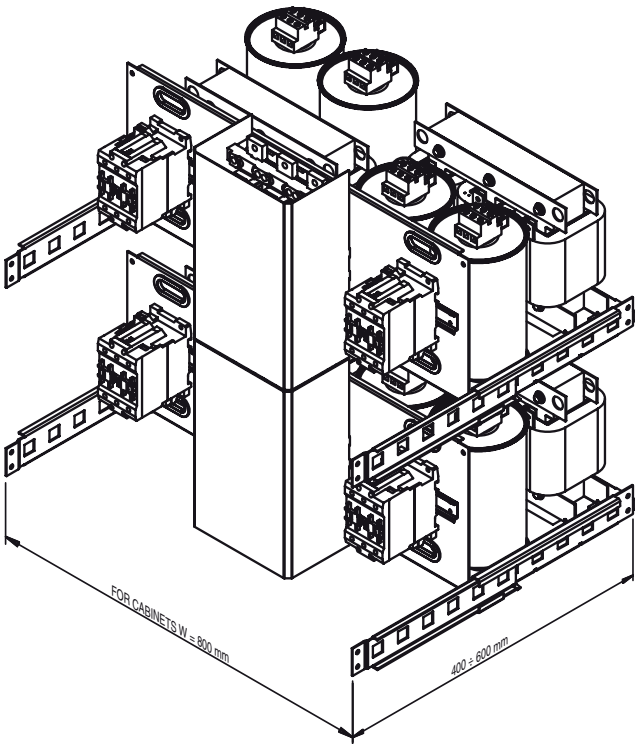
All components inside this products are compliant with EU Safety Regulations.

PART NUMBER	Power (kvar) U _e =380V	Power (kvar) U _e =380V	DIM IP20 WxHxD(mm)	OVERALL DRAWING
Contact us	12,5	12,5	480x275x430	93,95
Contact us	25	2x12,5	480x275x430	93,95
Contact us	25	25	480x275x430	93,95
Contact us	50	50	480x275x430	93,95

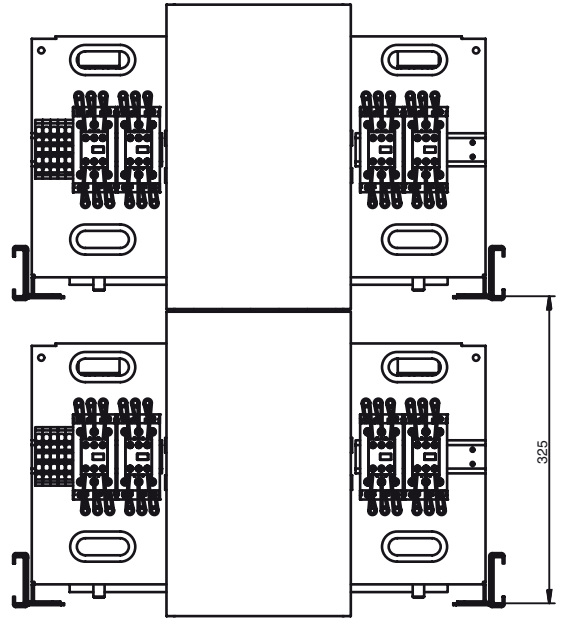
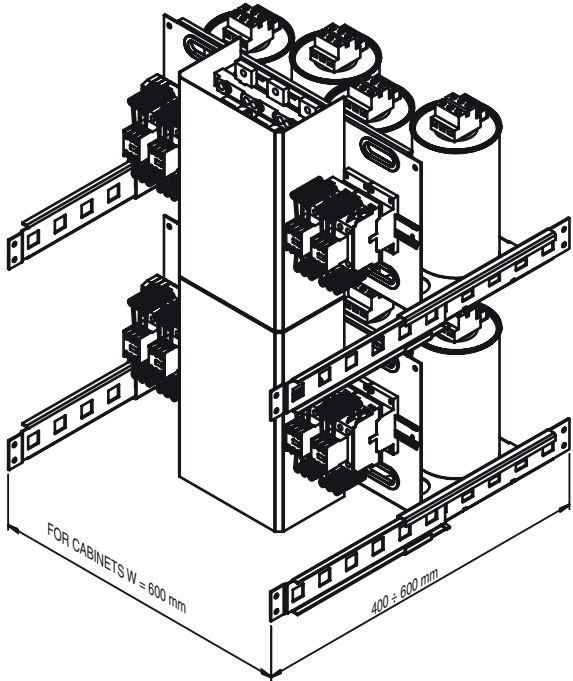
U_e: power factor correction bank working voltage
 THDI_R%: current total harmonic distortion of the plant



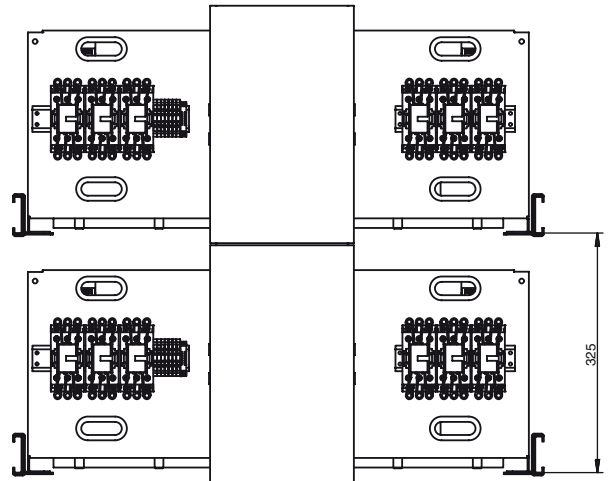
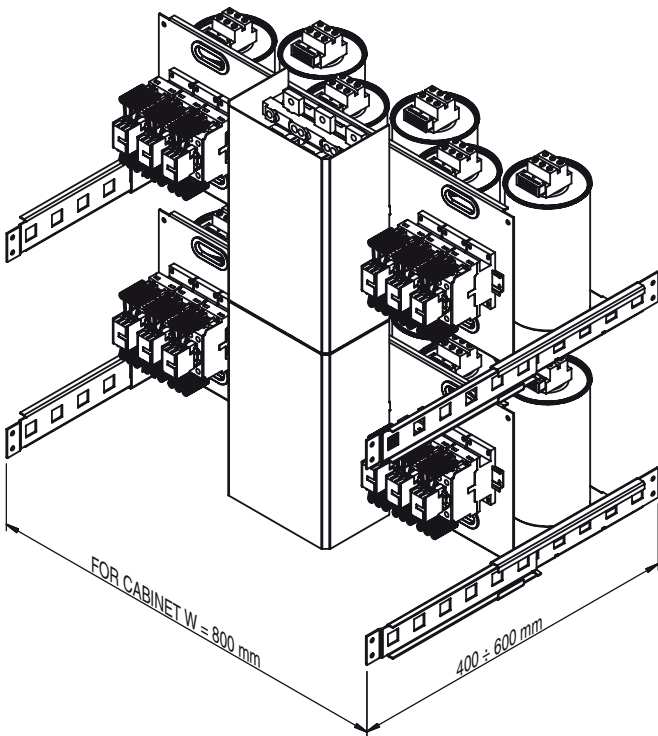
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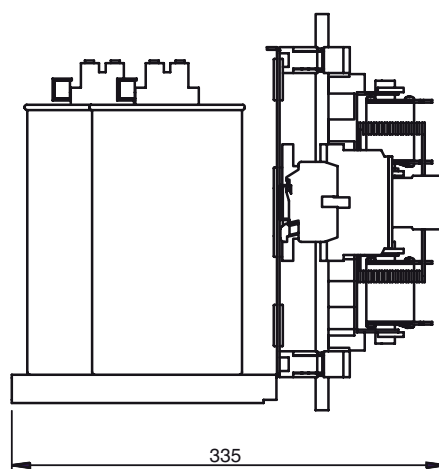
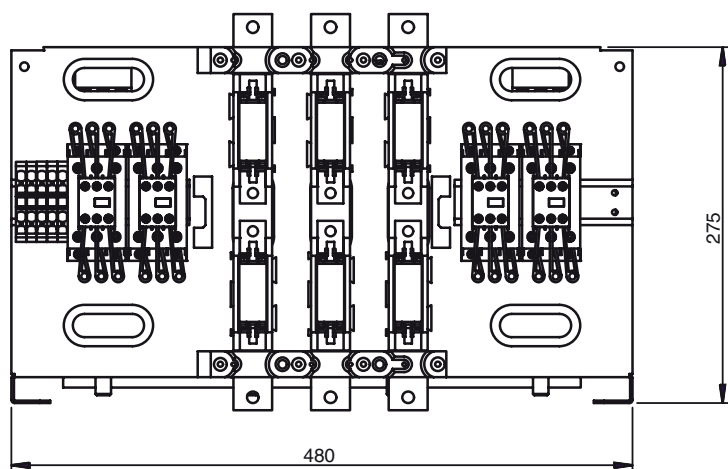
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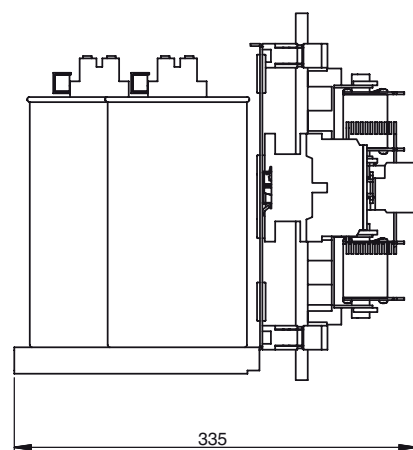
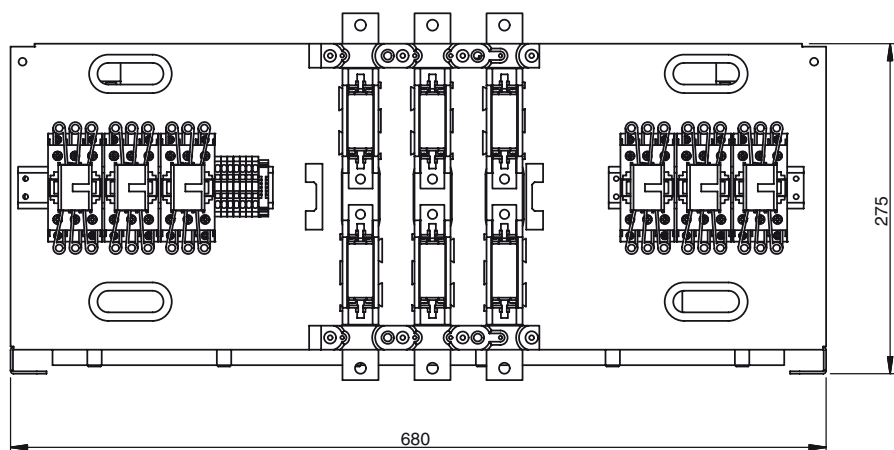
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