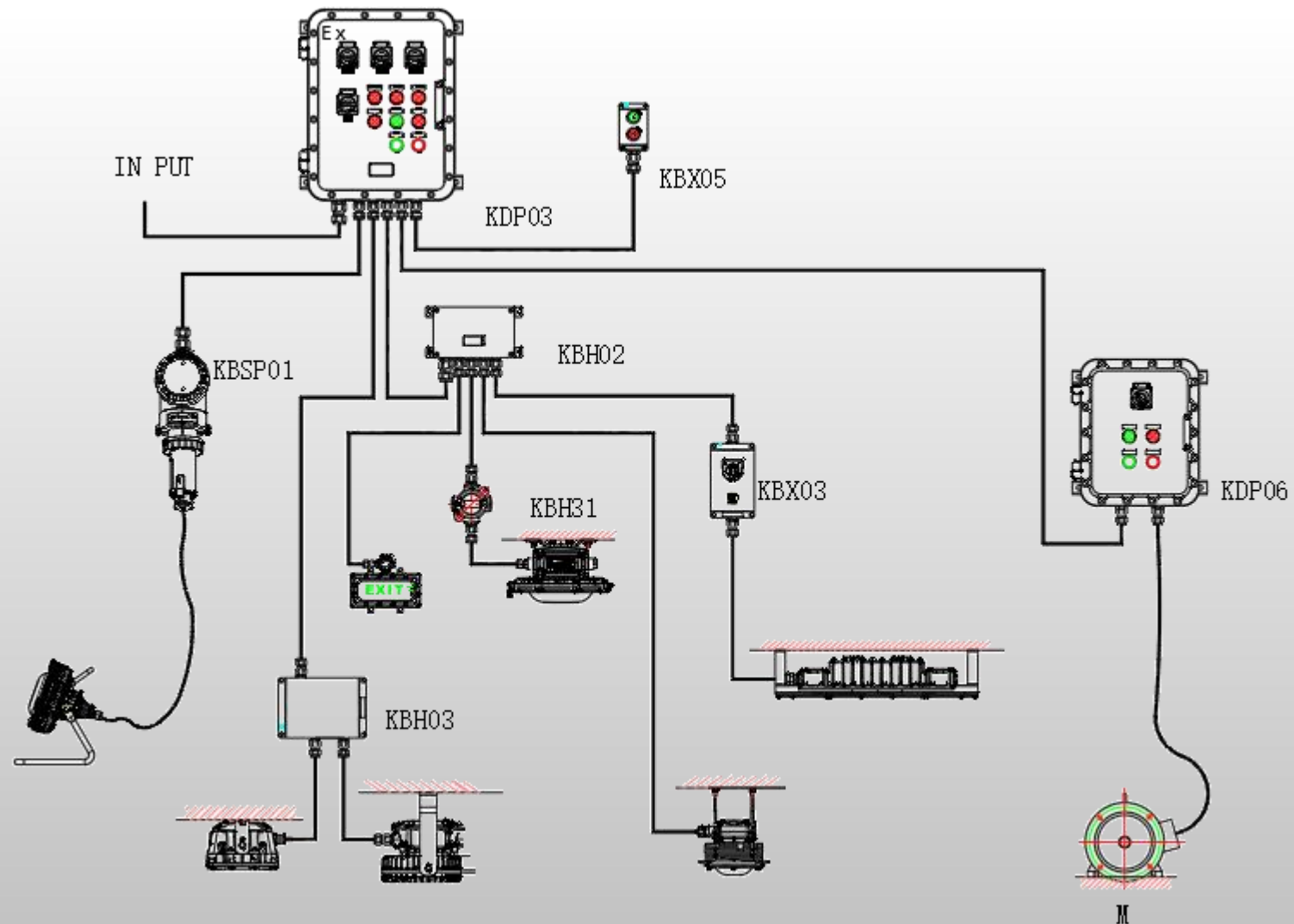




SHENZHEN KHJ SEMICONDUCTOR LIGHTING CO., LTD



EXPLOSION PROOF ELECTRICAL APPARATUS



Zones System (IECEX/ATEX)

ZONE		Hazardous areas are classified into Zones based upon the frequency of the occurrence and duration of an explosive gas/dust atmosphere, as follows:
Gas	Dust	
0	20	A potentially flammable atmosphere is present continuously or for long periods or frequently.
1	21	A potentially flammable atmosphere is likely to occur in normal operation occasionally.
2	22	A potentially flammable atmosphere is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Reference: IEC 60079-10

GAS & DUST GROUPS

Gas and Dust Grouping for Electrical Equipment for IEC 60079-0

Group	Representative Gases and Dusts
I	All underground coal mining. Firedamp (methane)
IIA	Industrial methane, propane, petrol and the majority of industrial gasses
IIB	Ethylene, coke oven gas and other industrial gasses
IIC	Hydrogen, acetylene, carbon disulphide
IIIA	Combustible flyings
IIIB	Non-conductive dust
IIIC	Conductive dust

Material Ex Classifications

Gas	Ignition Temp °C	Apparatus Group	Temperature Class
Ammonia	630	IIA	T1
Hydrogen	560	IIC	T1
Methane	537	IIA	T1
Propane	450	IIA	T2
Ethylene	425	IIB	T2
Butane	372	IIA	T2
Acetylene	305	IIC	T2
Cyclohexane	259	IIA	T3
Kerosene	210	IIA	T3
Di-ethyl Ether	160	IIB	T4
Carbon Disulphide	90	IIC	T6

Material Ex Classifications

Dust Typical Ignition Temperatures		
Dust	Cloud (°C)	Layer (°C)
Aluminium	590	>450
Coal dust (ignites)	380	225
Flour	490	340
Grain dust	510	300
Methyl cellulose	420	320
Phenolic resin	530	>450
Polythene	420	(melts)
PVC	700	>450
Soot	810	570
Starch	460	435
Sugar	490	460

Examples of ATEX Directive Marking

CE 0031 Ex II 2 G

CE

Denotes that a product complies with all the relevant European Directives

0031

Notified Body Number (Sira Certification Service)

Ex

Specific marking for explosion protection

II

Equipment group (Could be I for mining or II for surface industry)

2

Equipment category (Could be 1, 2, 3 depending upon Zone of intended use)

G

Type of flammable atmosphere (G = Gas, D = Dust)

CE 0031 Ex I M1

M1

Mining applications (M1 = equipment remains energised, M2 = de-energised)

Example of Standards Marking – Gas

(Marking derived from the EN and/or IEC standards)

Ex db IIC T4 Gb	
Ex	Denotes explosion protection
db	Denotes type of protection (see protection concepts for alternatives)
IIC	Denotes gas group (see gas groups for alternatives)
T4	Denotes temperature classification (see temp classification for alternatives)
Gb	EPL – Equipment Protection Level (see EPL table for alternatives)

Example of Standards Marking – Dust

(Marking derived from the EN and/or IEC standards)

Ex tb IIIC T135°C Db	
Ex	Denotes explosion protection
tb	Denotes type of protection (see protection concepts for alternatives)
IIIC	Denotes dust group (see dust groups for alternatives)
T135°C	Denotes temperature classification (see temp classification for alternatives)
Db	EPL – Equipment Protection Level (see EPL table for alternatives)

CORRELATION BETWEEN ZONES/EQUIPMENT PROTECTION LEVEL (EPL)/ATEX CATEGORIES

Zone	EPL	Category
0	Ga	1G
1	Gb	2G
2	Gc	3G
20	Da	1D
21	Db	2D
22	Dc	3D
Mining Application (Equipment can remain energised in the presence of flammable atmosphere – firedamp)	Ma	M1
Mining Application (Equipment to be de-energised when flammable atmosphere is detected – firedamp)	Mb	M2
G = Gas, D = Dust, M = Mining		

TEMPERATURE CLASSIFICATION

Maximum Surface Temperature (°C)	Divisions	Zones
450	T1	T1
300	T2	T2
280	T2A	—
260	T2B	—
230	T2C	—
215	T2D	—
200	T3	T3
180	T3A	—
165	T3B	—
160	T3C	—
135	T4	T4
120	T4A	—
100	T5	T5
85	T6	T6

STANDARDS ELECTRICAL

ATEX & IECEx

Zones System (Gas, Vapour & Mists)

Type of Protection	Symbol	IECEx EPL	ATEX Category	Permitted Zone	Standard EN-ATEX IEC-IECEx	Definition
General Requirements	N/A	Ga Gb Gc	1 2 3	0 1 2	60079-0	Applies to all protection concepts
Increased Safety	eb ec	Gb Gc	2 3	1 2	60079-7	No arcs, sparks or hot surfaces. Enclosure IP 54 or better
Type n (non-sparking)	nA	Gc	3	2	60079-15	
Flameproof	da* db dc	Ga* Gb Gc	1* 2 3	0* 1 2	60079-1	Contain the explosion and quench the flame.
Type n (enclosed break)	nC	Gc	3	2	60079-15	*applies to catalytic sensors only
Quartz/Sand Filled	q	Gb Gc	2 3	1 2	60079-5	Quench the flame
Intrinsic Safety	ia ib ic	Ga Gb Gc	1 2 3	0 1 2	60079-11	Energy limitation in sparks and hot surfaces.

ATEX & IECEx

Zones System (Gas, Vapour & Mists)

Type of Protection	Symbol	IECEx EPL	ATEX Category	Permitted Zone	Standard EN-ATEX IEC-IECEx	Definition
Pressurised	pxb pyb pzc	Gb Gb Gc	2 2 3	1 1 2	60079-2	Keep the flammable gas out.
Encapsulation	ma mb mc	Ga Gb Gc	1 2 3	0 1 2	60079-18	
Oil Immersion	ob oc	Gb Gc	2 3	1 2	60079-6	
Type n (sealing & hermetic sealing)	nC	Gc	3	2	60079-15	
Type n (restricted breathing)	nR	Gc	3	2	60079-15	
Optical Radiation	Op is Op sh Op pr	Ga Ga Gb	1 1 2	0 0 1	60079-28	To prevent ignition by thermal, photochemical or plasma means

Equipment suitable for use in a Zone 0 is permitted in a Zone 1 or 2

Equipment suitable for use in a Zone 1 is permitted in a Zone 2, but not in a Zone 0

Equipment suitable for use in a Zone 2 is not permitted in either a Zone 0 or Zone 1

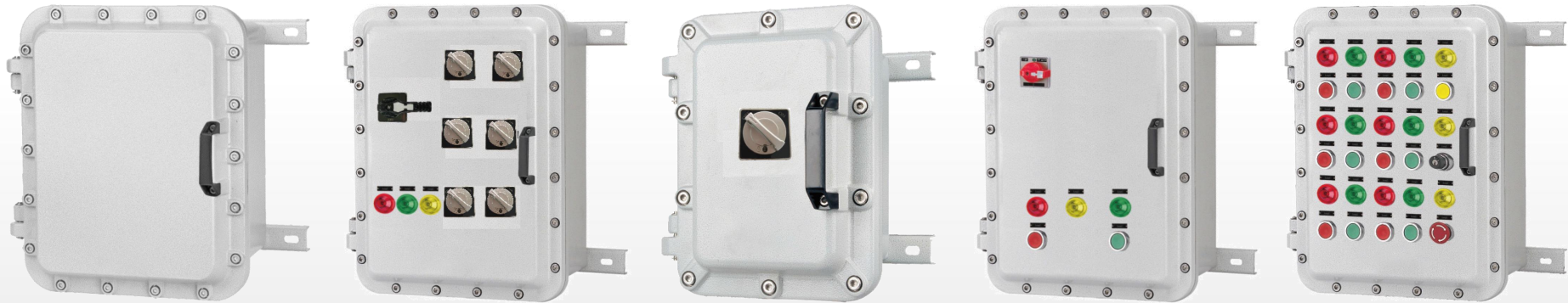
ATEX & IECEx Zones System (Dusts)

Type of Protection	Symbol	IECEx EPL	ATEX Category	Permitted Zone	Standard EN - ATEX IEC - IECEx	Definition
General Requirements	N/A	Da Db Dc	1 2 3	20 21 22	60079-0	Applies to all protection concepts
Enclosure	ta tb tc	Da Db Dc	1 2 3	20 21 22	60079-31	Prevents dust coming into contact with electrical parts
Pressurised	pxb pyb pzc	Db Db Dc	2 2 3	21 21 22	60079-2	
Encapsulation	ma mb mc	Ga Gb Gc	1 2 3	20 21 22	60079-18	
Intrinsic Safety	ia ib ic	Da Db Dc	1 2 3	20 21 22	60079-11	Energy limitation in sparks and hot surfaces.
Optical Radiation	Op is Op sh Op pr	Da Da Db	1 1 2	20 20 21	60079-28	To prevent ignition by thermal, photochemical or plasma means

Equipment suitable for use in a Zone 20 is permitted in a Zone 21 or 22

Equipment suitable for use in a Zone 21 is permitted in a Zone 22, but **not** in a Zone 20

Equipment suitable for use in a Zone 22 is **not** permitted in either a Zone 20 or Zone 21



II 2 G D

Ex db IIB T6...T4 Gb

Ex db [ia/ib] IIB T6...T4 Gb

Ex db IIB+H2 T6...T4 Gb

Ex db [ia/ib] IIB+H2 T6...T4 Gb

Ex tb IIIC T80°C, T95°C, T130°C Db



KDP03 Series

Explosion proof Electrical Apparatus



Ex mark: II 2 G Ex db IIB T6/T5/T4 Gb
II 2 G Ex db[ia/ib] IIB T6/T5/T4 Gb
II 2 G Ex db IIB+H2 T6/T5/T4 Gb
II 2 G Ex db[ia/ib] IIB+H2 T6/T5/T4 Gb
II 2 D Ex tb IIIC T80/T95/T130 °C Db

Rated voltage: Max. 1000V AC, 1500V DC

Rated current: Max. 1200A

Material: Aluminum alloy enclosure

Temperature: : --20 °C ~+40/60 °C, -40 °C ~+40/60 °C

Application area: Zone 1 and Zone 2,
Zone 21 and Zone 22

Cable entries: M16×1.5-M63×1.5(default, exact size according to requirement) , NPT thread (optional)

IECEX TPS 22.0025X, TPS 22 ATEX 114950 0003 X

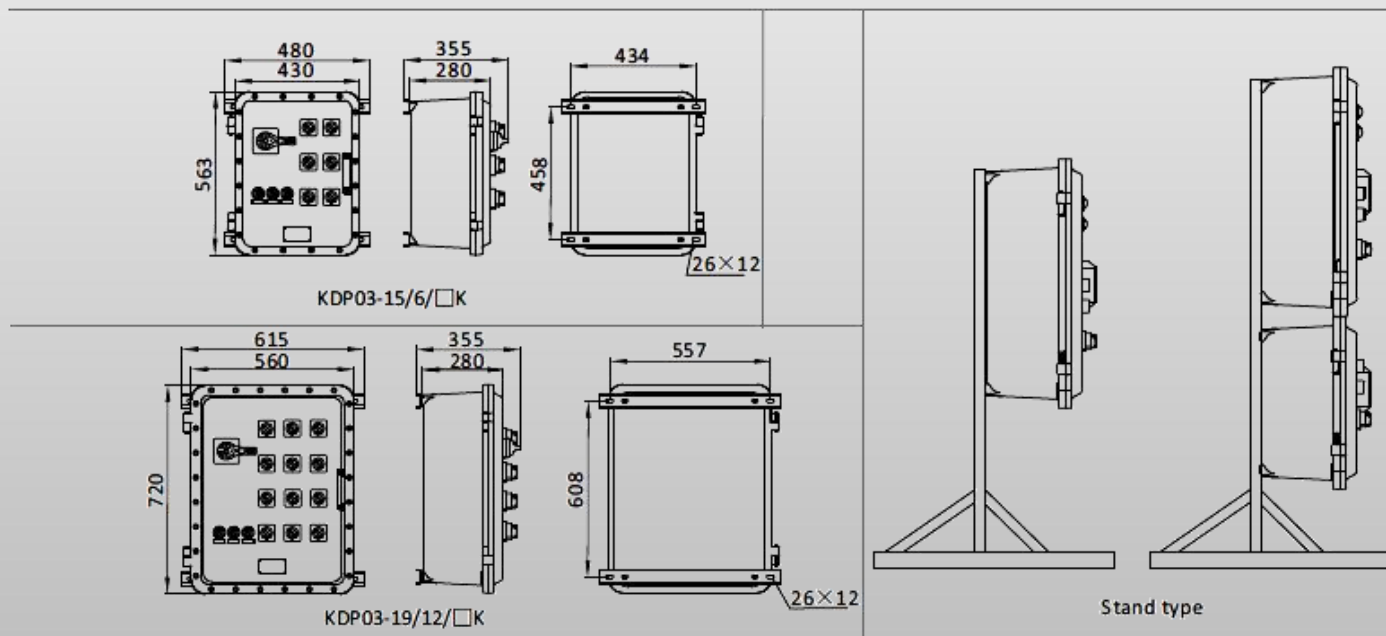
Application and Features

- Three types of explosion protection: Ex db IIB, Ex db IIB+H2, Ex tb IIC
- The enclosure can be equipped with miniature circuit breakers (MCB) or molded case circuit breakers (MCCB), leakage circuit breakers, contactors, thermal relays, PLCs, control transformers, soft starters, control buttons, indicator lights, push switches, potentiometers, Voltmeter, ammeter, tachometer, terminal block, etc.
- The enclosure with hinges and handle, convenient for installation and maintenance. Protect the flame-proof surface when operating.
- The circuit breaker using metal handle with frozen-resistant and can be equipped with a padlock.
- The enclosures can be combined and installed to meet the various requirements of power distribution systems.
- Can be customized according to user requirements, meet the certificate use restrictions.
- The number of elements and the maximum number of holes size needs to meet the requirements of power dissipation and mechanical strength of the housing.

Selection Table

Type	Enclosure size (mm)	Internal size (mm)	Maximum power dissipation (Ta: +40°C)			Maximum power dissipation (Ta: +60°C)		Weight (Empty enclosure)
	LxWxH	LxWxH	T6/T80°C	T5/T95°C	T4/T130°C	T6/T80°C	T5/T95°C	
KDP03-03	282X210X170	216X144X126	45W	110W	110W	45W	72W	9.0kg
KDP03-07	350X210X170	282X142X123	45W	80W	139W	45W	80W	11.5kg
KDP03-08	350X300X235	278X228X189	45W	80W	139W	45W	80W	16.6kg
KDP03-11	433X350X280	361X278X225	100W	288W	288W	100W	162W	26kg
KDP03-15	563X433X280	488X358X197	130W	365W	365W	130W	225W	48kg
KDP03-19	720X563X280	630X473X182	200W	448W	448W	200W	380W	85kg
KDP03-21	720X563X350	626X469X257	210W	690W	690W	210W	400W	95kg

Typical dimensions



INTERNAL COMPONENTS



- Standard button(A1/01)
- Standard button(A1/21)
- Standard button(A1/41)
- Standard button(A1/61)
- Standard button(A1/81)

Standard button



- Emergency stop button with self-locking(A3)

ES button



- Mushroom button(A4/21)
- Mushroom button(A481)

Mushroom button



- Knob switch(B)

Knob switch



- Green
- Red
- Yellow
- White
- Blue

Button with Signal lamp



- Green
- Red
- Yellow
- White
- Blue

Signal lamp

INTERNAL COMPONENTS



Control Switch(LW5)



S28 handle



Galvanometer



Control Switch(LW26)



S30 handle



Voltmeter

INTERNAL COMPONENTS



MCCB



MCB



AC contactors



Time relay



Thermal overload relay

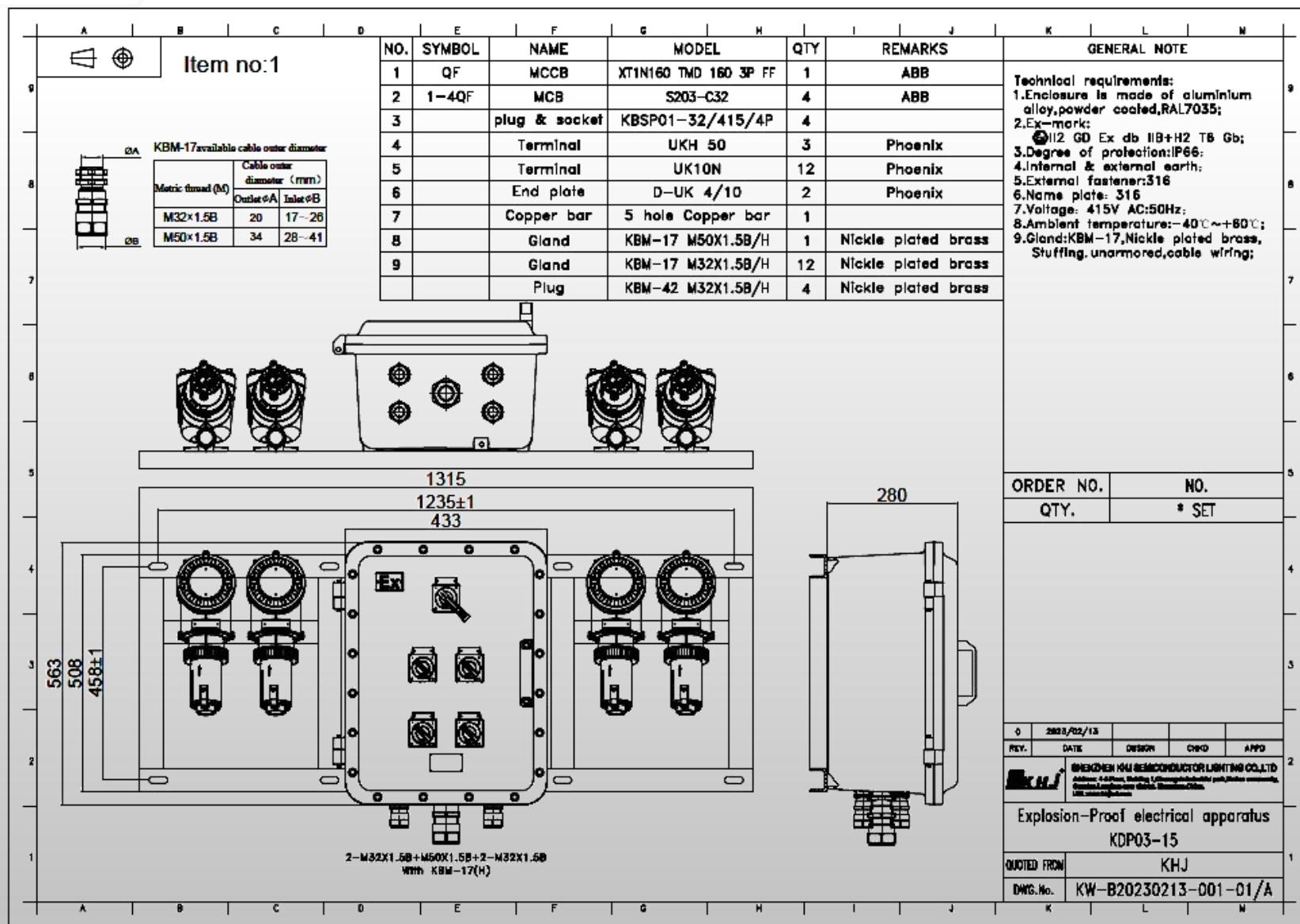


Terminal

Note:

- Please advise the classification of the equipment used for and the certificate type :ATEX,IECEX.
- Please advise the explosion proof grade: Gas is IIB ,IIB+H2 or IIC , and dust grade.
- Please advise the brand of internal components: Schneider, ABB, Siemens etc.
- Please advise the installation location:indoor or outdoor .Whether it needs to be equipped with rain cover, outer cabinet, etc..
- Please advise the installation method: hanging or vertical, whether it needs to be equipped with a bracket or installation accessories.
- Please advise the specification and direction of the cable gland.
- Please advise the electrical system and wire color.
- Please provide the necessary electrical diagrams or single-line diagrams .
- Please advise if any other special requirements .
- Please provide the necessary information during the design process.

Case:



Item no:1		GENERAL NOTE			
Main switch	L1, L2, L3, PE Entry: M50X1.5 User's cable: 3X35+1X16 Terminal block: UKH50/3+PE				
	1QF 2QF 3QF 4QF				
Branch switch					
Phase sequence	1U, 1V, 1W, PE	2U, 2V, 2W, PE	3U, 3V, 3W, PE	4U, 4V, 4W, PE	
Terminal block	UK10N/3+PE	UK10N/3+PE	UK10N/3+PE	UK10N/3+PE	
Entry	M32X1.5	M32X1.5	M32X1.5	M32X1.5	
User's cable	4X6	4X6	4X6	4X6	
Circuit name					
Circuit No.	1	2	3	4	

ORDER NO.	NO.
QTY.	* SET

DATE	DESIGN	CHECK	APP.
2023/02/18			

Explosion-Proof electrical apparatus

KDP03-15

QUOTED FROM	KHJ
DWG.No.	KW-B20230213-001-02/A

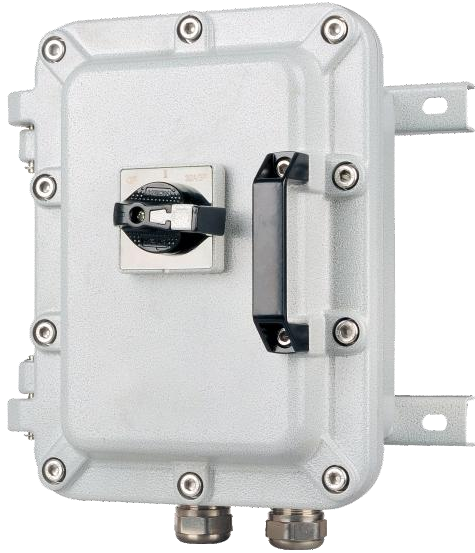
ORDER NO.	NO.
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KDP03-15

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KDP05 Series

Explosion proof Electrical Apparatus(Circuit breaker)



Ex mark: II 2 G Ex db IIB T6/T5/T4 Gb
II 2 G Ex db IIB+H2 T6/T5/T4 Gb
II 2 D Ex tb IIIC T80/T95/T130°C Db

Rated voltage: Max. 1000V AC, 1500V DC

Rated current: Max. 630A

Material: Aluminum alloy enclosure

Temperature: : --20 °C ~+40/60 °C, -40 °C ~+40/60 °C

Application area: Zone 1 and Zone 2,
Zone 21 and Zone 22

Cable entries: M16×1.5-M63×1.5 (default, exact size according to requirement) , NPT thread (optional)

IECEX TPS 22.0025X, TPS 22 ATEX 114950 0003 X

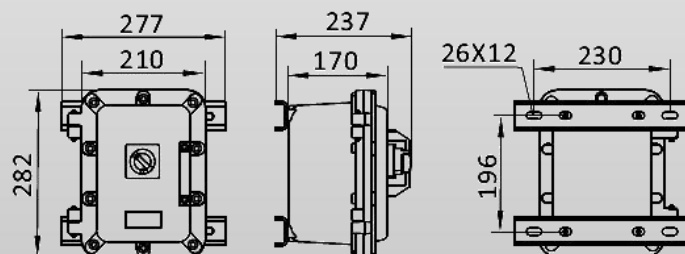
Application and Features

- Three types of explosion protection: Ex db IIB, Ex db IIB+H2, Ex tb IIIC.
- The enclosure can be equipped with miniature circuit breakers (MCB) or molded, case circuit breakers (MCCB), leakage circuit breakers.(see KDP03)
- leakage protection accessories, shunt tripping device, and other protection devices are optional.
- The enclosure with hinges and handle, convenient for installation and maintenance. Protect the flame-proof surface when operating.
- The circuit breaker using metal handle and can be equipped with a padlock.

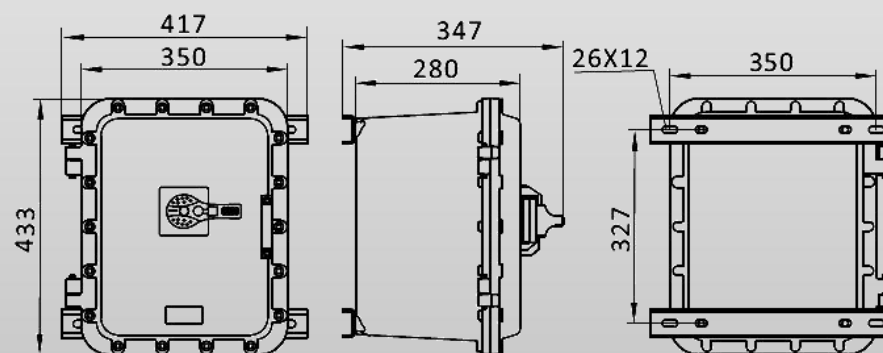
Selection Table

Maximum dissipation power	Enclosure size	Type	Ta: +40°C						Ta: +60°C				
			T6/T80°C		T5/T95°C		T4/T130°C		T6/T80°C		T5/T95°C		The weight of Empty closure
			Power	Current	Power	Current	Power	Current	Power	Current	Power	Current	
	282X210X170	03	45W	≤63A	110W	—	110W	—	45W	≤63A	72W	—	9.0kg
	350X210X170	07	45W	63A~100A	80W	—	139W	—	45W	63A~100A	80W	—	11.5kg
	350X300X235	08	45W	63A~100A	80W	—	139W	—	45W	63A~100A	80W	—	16.6kg
	433X350X280	11	100W	100A~250A	288W	—	288W	—	100W	100A~250A	162W	—	26kg
	563X433X280	15	130W	250A~400A	365W	—	365W	—	130W	250A~400A	225W	—	48kg
	720X563X280	19	200W	—	448W	400A~630A	448W	—	200W	—	380W	—	85kg
	720X563X350	21	210W	—	690W	—	690W	400A~630A	210W	—	400W	—	95kg

Typical dimensions

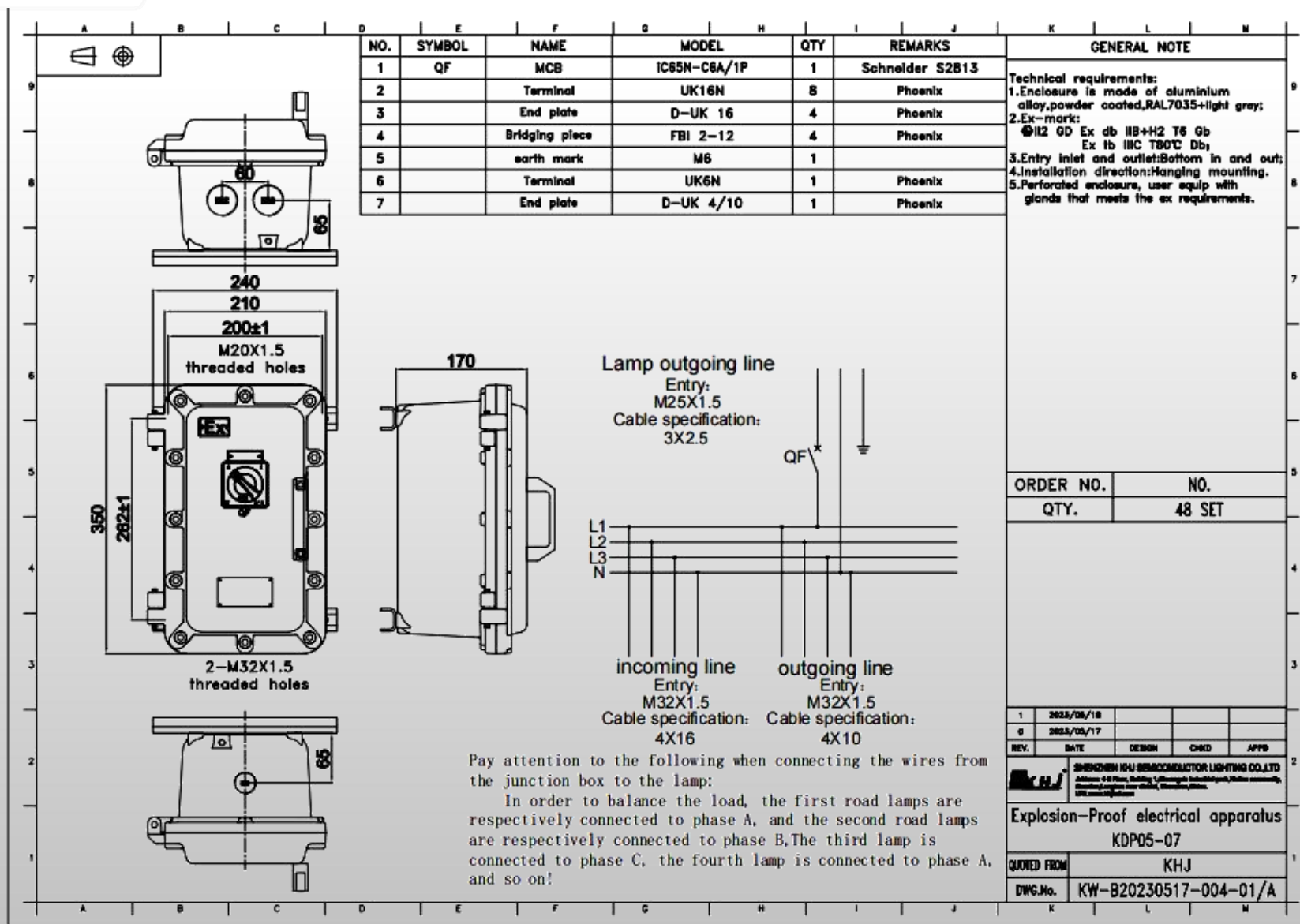


KDP05-03/□63□



KDP05-11□/□160□
KDP05-11□/□250□

Case:



KDP06 Series Explosion proof Electrical Apparatus



Ex mark: IIB G Ex db IIB T6/T5/T4 Gb
IIB G Ex db IIB+H2 T6/T5/T4 Gb
IIB D Ex tb IIC T80/T95/T130°C Db

Rated voltage: Max. 690V AC

Rated current: Max. 200A

Material: Aluminum alloy enclosure

Temperature: : --20 °C ~+40/60 °C, -40 °C ~+40/60 °C

Application area: Zone 1 and Zone 2,
Zone 21 and Zone 22

Cable entries: M16×1.5-M63×1.5(default, exact size according to requirement) , NPT thread (optional)

IECEX TPS 22.0025X, TPS 22 ATEX 114950 0003 X

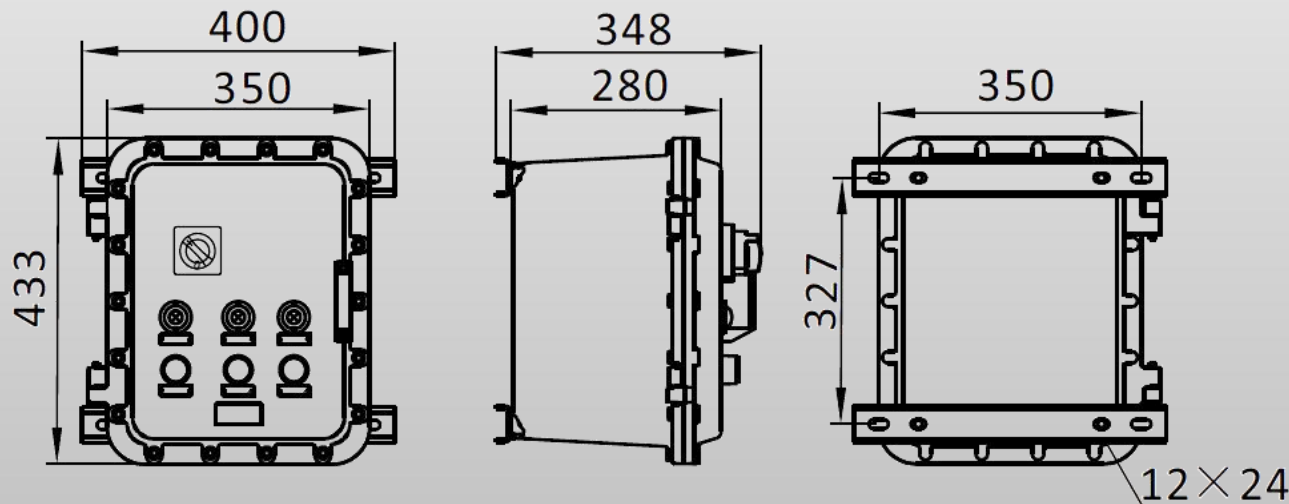
Application and Features

- Three types of explosion protection: Ex db IIB, Ex db IIB+H2, Ex tb IIIC.
- The enclosure can be equipped with miniature circuit breakers (MCB) or molded case circuit breakers (MCCB), contactors, thermal relays, control buttons, indicator lights, push switches, potentiometers, voltmeters, ammeters, tachometers, terminals, etc.(see KDP03)
- It's able to control the start, stop, forward and reverse rotation of the motor, and the comprehensive protection of the motor, able to multi-places control.
- The enclosure with hinges and handle, convenient for installation and maintenance. Protect the flame-proof surface when operating.
- The circuit breaker using metal handle and can be equipped with a padlock.
- Can be customized according to user requirements, meet the certificate use restrictions.
- The number of elements and the maximum number of holes size needs to meet the requirements of power dissipation and mechanical strength of the housing.
- Please specify the special requirements when ordering.

Selection Table

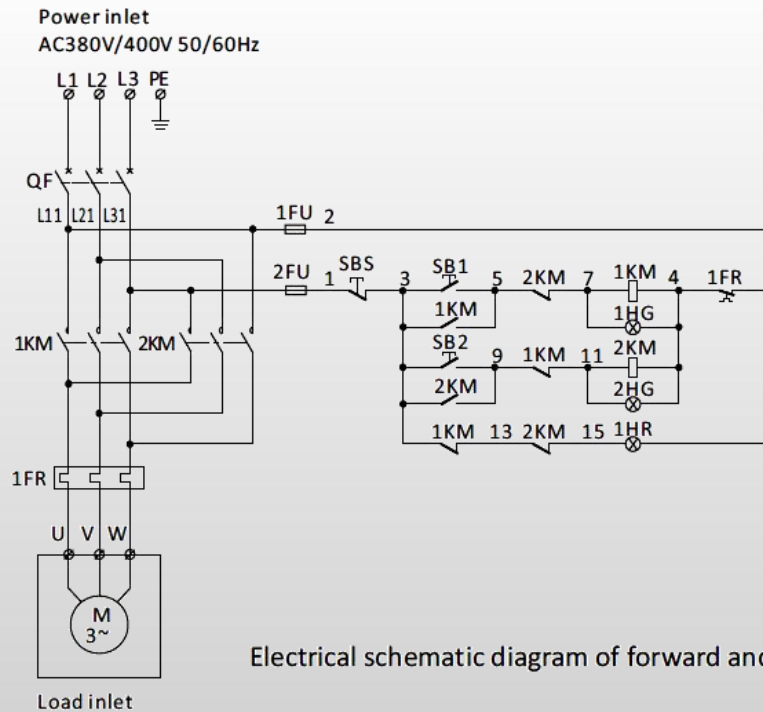
Maximum dissipation power	Enclosure size	Type	Ta:+40°C						Ta:+60°C				
			T6/T80°C		T5/T95°C		T4/T130°C		T6/T80°C		T5/T95°C		The weight of Empty enclosure
			Power	Current	Power	Current	Power	Current	Power	Current	Power	Current	
	282×210×170	03	45W	--	110W	--	110W	--	45W	--	72W	--	9.0kg
	350×210×170	07	45W	≤40A	80W	≤50A	139W	--	45W	≤40A	80W	≤50A	11.5kg
	350×300×235	08	45W	≤40A	80W	≤50A	139W	--	45W	≤40A	80W	≤50A	16.6kg
	433×350×280	11	100W	≤95A	288W	≤120A	288W	--	100W	≤95A	162W	≤120A	26kg
	563×433×280	15	130W	≤150A	365W	≤200A	365W	--	130W	≤150A	225W	≤200A	48kg
	720×563×280	19	200W	≤200A	448W	≤300A	448W	≤300A	200W	≤200A	380W	≤300A	85kg
	720×563×350	21	210W	≤200A	690W	≤300A	690W	≤300A	210W	≤200A	400W	≤300A	95kg

Typical dimensions



KDP06-11/11kW ~ 22kW

Electrical Schematic Diagram



Electrical schematic diagram of forward and reverse start

Description of electrical components code

QF: Circuit breaker

KM1, KM2: AC contactor

FR: Thermal relay

FU1, FU2: Fuse

SBS: Stop button

SB1: Forward start button

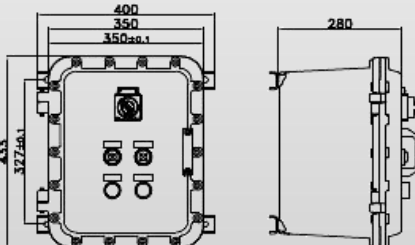
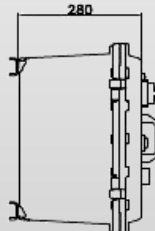
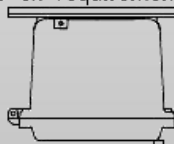
SB2: Reverse start button

HR: Stop indicator

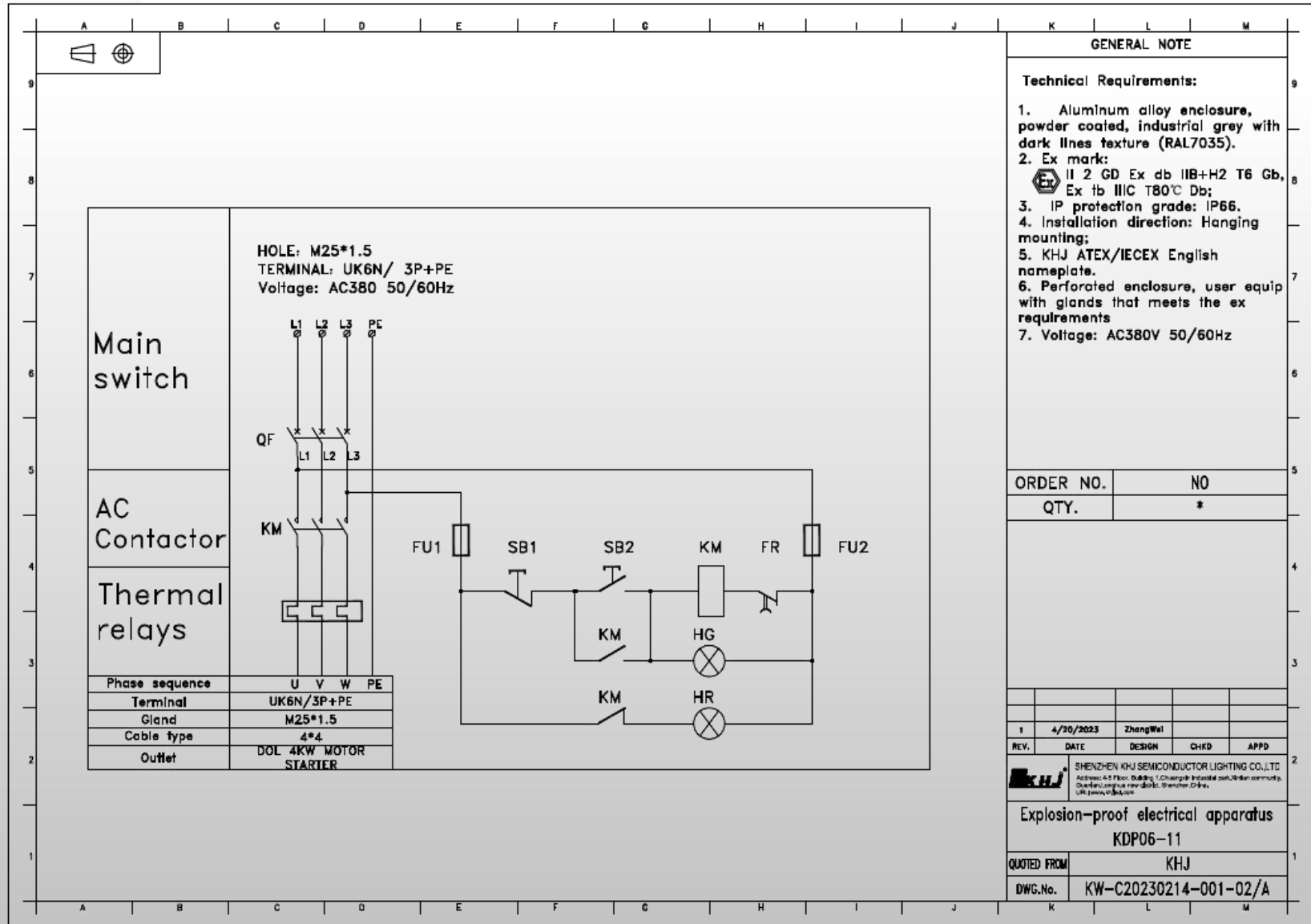
HG1: Forward running indicator

HG2: Reverse running indicator

Case:

A	B	C	D	E	F	G	H	I	J	K	L	M
 2-M25*1.5 Perforated enclosure, user equip with glands that meets the ex requirements  				NO.	SYMBOL	NAME	MODEL	QTY	REMARKS	GENERAL NOTE Technical Requirements: 1. Aluminum alloy enclosure, powder coated, industrial grey with dark lines texture (RAL7035). 2. Ex mark:  II 2 GD Ex db IIB+H2 T6 Gb, Ex tb IIIC T80°C Db; 3. IP protection grade: IP66. 4. Installation direction: Hanging mounting; 5. KHJ ATEX/IECEx English nameplate. 6. Perforated enclosure, user equip with glands that meets the ex requirements 7. Voltage: AC380V 50/60Hz		
				1	QF	MCB	IC65H-D10A/3P	1	Schneider			
				2		Terminal	UK6N	6	Phoenix			
				3		Terminal	USLKG6N	2	Phoenix			
				4		End plate	D-UK4/ 10	5	Phoenix			
				5	KM	AC Contactor	LC1D12Q7C	1	Schneider			
				6	FR	Thermal relays	LRD14	1	Schneider			
				7	SB2	Button	K0105-A1/IV/01	1	GN/1-NO			
				8	SB1	Button	K0105-A1/V/21	1	RED/1-NC			
				9	HR	Indicator	K0107-R/03	1	Red/ 220-415Vac			
				10	HG	Indicator	K0107-G/03	1	GN/ 220-415Vac			
		FU	RT18-2A	2	CE							
										ORDER NO. NO QTY. *		
										1 4/30/2023 ZhengWu REV. DATE DESIGN CHKD APPD  SHENZHEN KHJ SEMICONDUCTOR LIGHTING CO.,LTD. Address: 4-5 floor, 11 building, 1 Chuanrong Industrial park, 41st street community, Chuanrong Longhai street, 41st street, Shenzhen, China. Call: 18902908899 Explosion-proof electrical apparatus KDP06-11 QUOTED FROM KHJ DWG.No. KW-C20230214-001-01/A		

Case:



KDP07 Series

Explosion proof Electrical Apparatus(Control circuit)



Ex mark: II 2 G Ex db IIB T6 Gb
II 2 G Ex db[ia/ib] IIB T6 Gb
II 2 G Ex db IIB+H2 T6 Gb
II 2 G Ex db[ia/ib] IIB+H2 T6 Gb
II 2 D Ex tb IIIC T80°C Db

Rated voltage: Max. 415V AC

Rated current: Max. 200A

Material: Aluminum alloy enclosure

Temperature: : --20 °C ~+40/60 °C, -40 °C ~+40/60 °C

Application area: Zone 1 and Zone 2,
Zone 21 and Zone 22

Cable entries: M16×1.5-M63×1.5 (default, exact size according to requirement) , NPT thread (optional)

IECEX TPS 22.0025X, TPS 22 ATEX 114950 0003 X

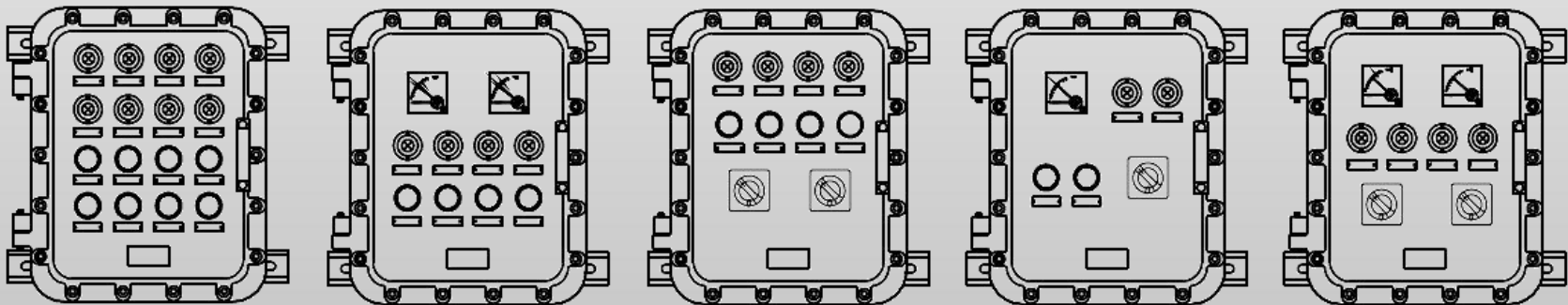
Application and Features

- Three types of explosion protection: Ex db IIB, Ex db IIB+H2, Ex tb IIIC.
- The enclosure can be equipped with transformers, buttons, indicator lights, switches, potentiometers, voltmeters, ammeters, tachometers, etc.(see KDP03)
- The emergency stop button can be equipped with an anti-misoperation mechanism and a padlock by requirements.
- The enclosure with hinges and handle, convenient for installation and maintenance. Protect the flame-proof surface when operating.
- The enclosures can be combined and installed to meet the various requirements of power distribution systems.
- Can be customized according to user requirements, meet the certificate use restrictions.
- The number of elements and the maximum number of holes size needs to meet the requirements of power dissipation and mechanical strength of the housing.
- The circuit breaker using metal handle with frozen-resistant and can be equipped with a padlock.
- Please specify the special requirements when ordering.

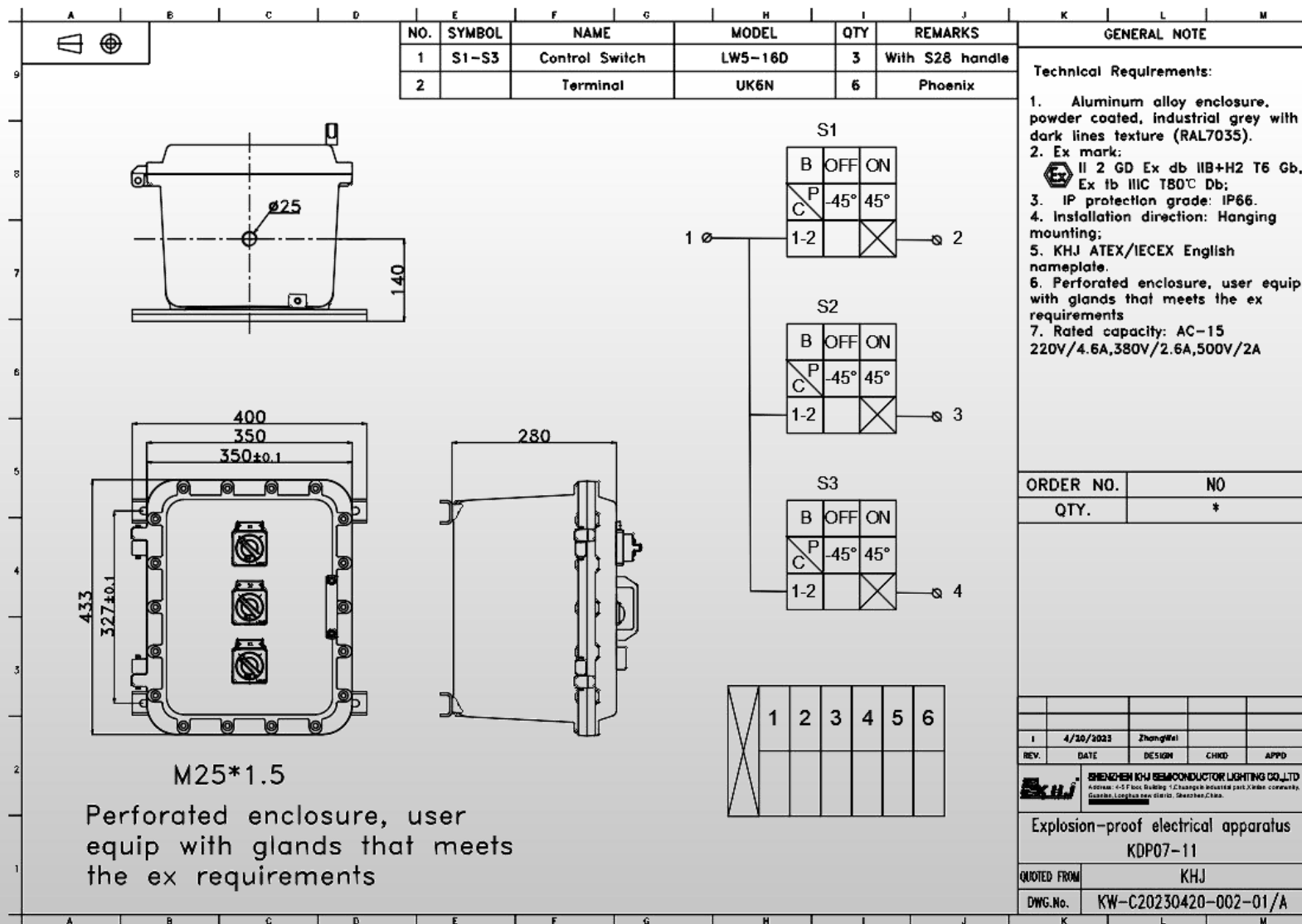
Selection Table

	Enclosure size	Type Temperature class	Ta:+40°C	Ta:+60°C	The weight of Empty enclosure
			T6/T80°C	T6/T80°C	
Maximum dissipation power	105×105×90	01.1	≤10A	≤16A	1. 1kg
	105×160×90	01.2	≤10A	≤16A	1. 5kg
	116×202×90	01.3	≤10A	≤16A	2. 6kg
	282×210×170	03	45W	45W	9.0kg
	350×210×170	07	45W	45W	11.5kg
	350×300×235	08	45W	45W	16.6kg
	433×350×280	11	100W	100W	26kg
	563×433×280	15	132W	132W	48kg
	720×563×280	19	201W	201W	85kg
	720×563×350	21	210W	210W	95kg

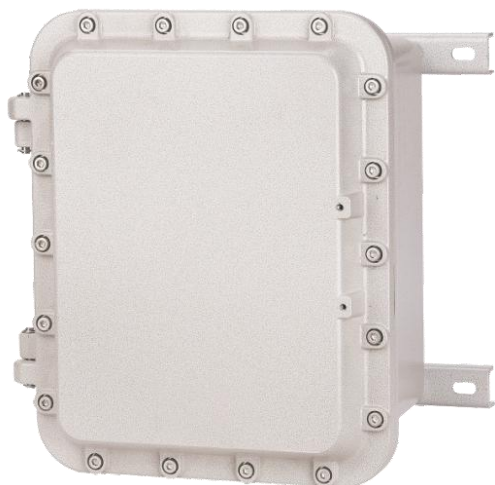
Typical dimensions



Case:



KDP11 Series Explosion proof Electrical Apparatus(Terminal box)



Ex mark: II 2 G Ex db IIB T6/T5/T4 Gb
II 2 G Ex db IIB+H2 T6/T5/T4 Gb
II 2 D Ex tb IIIC T80/T95/T130°C Db

Rated voltage: Max. 1000V AC, 1500V DC

Rated current: Max. 1200A

Material: Aluminum alloy enclosure

Temperature: : -20 °C ~+40/60 °C, -40 °C ~+40/60 °C

Application area: Zone 1 and Zone 2,
Zone 21 and Zone 22

Cable entries: M16×1.5-M63×1.5 (default, exact size according to requirement) , NPT thread (optional)

IECEX TPS 22.0025X, TPS 22 ATEX 114950 0003 X

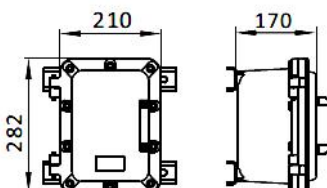
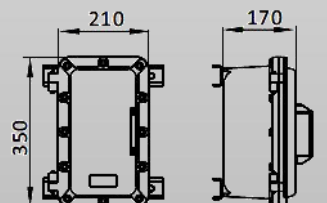
Application and Features

- Three types of explosion protection (Ex db IIB, Ex db IIB+H2, Ex tb IIIC).
- Aluminum alloy enclosure, power coated.
- Equipped with hinges and door handle, easy to installation and maintenance, also protect the flameproof surface from damage when the cover is opening or closing.
- Can be customized upon request and able to meet the usage restrictions of the certificate
- The circuit breaker using metal handle with frozen-resistant and can be equipped with a padlock.
- Direction, size and quantity of cable entry can be customized and meet the requirements of dissipated power and mechanical strength of the enclosure.

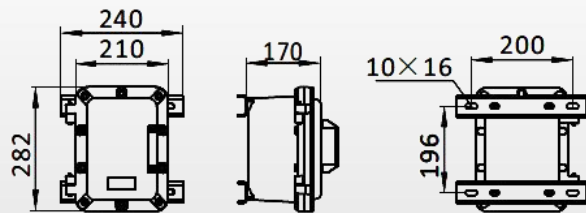
Selection Table

Maximum dissipation power	Enclosure size	Type	Ta:+60℃		Ta:+40℃				Weight of empty enclosure
			T6/T80℃		T5/T95℃		T4/T130℃		
			Power	Rated current	Power	Rated current	Power	Rated current	
	282X210X170	03	45W	≤63A	110W	--	110W	--	9.0kg
	350X210X170	07	45W	63A~100A	80W	--	139W	--	11.5kg
	350X300X235	08	45W	63A~100A	80W	--	139W	--	16.6kg
	433X350X280	11	100W	100A~250A	288W	--	288W	--	26kg
	563X433X280	15	130W	250A~400A	365W	400A~800A	365W	800A~1200A	48kg
	720X563X280	19	200W	250A~400A	448W	400A~800A	448W	800A~1200A	85kg
720X563X350	21	210W	250A~400A	690W	400A~800A	690W	800A~1200A	95kg	

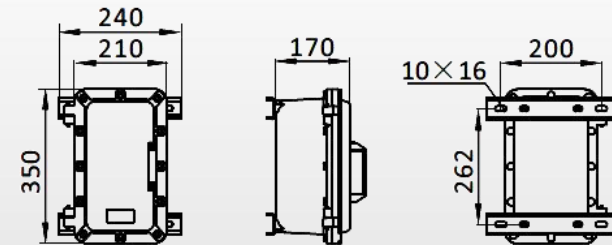
Maximum quantity of terminals that can be installed are shown in the table below:

Enclosure specifications		Guideway×Terminal (specification and quantity)										
		2.5 ²	4 ²	6 ²	10 ²	16 ²	35 ²	70 ²	120 ²	185 ²	240 ²	300 ²
		UK3N	UK5N	UK6N	UK10N	UK16N	UK35N	—	—	—	—	—
		SAK2.5EN	SAK4EN	SAK6EN	SAK10EN	SAK16EN	SAK35EN	—	—	—	—	—
03		1×23	1×21	1×18	1×14	1×12	—	—	—	—	—	
07		1×31	1×29	1×24	1×19	1×16	—	—	—	—	—	

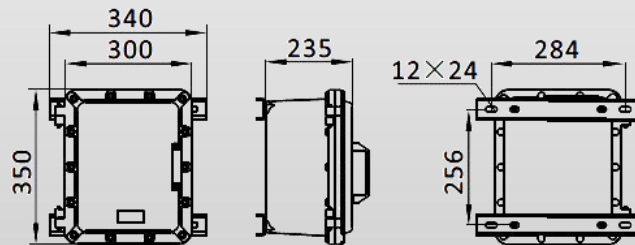
Typical dimensions



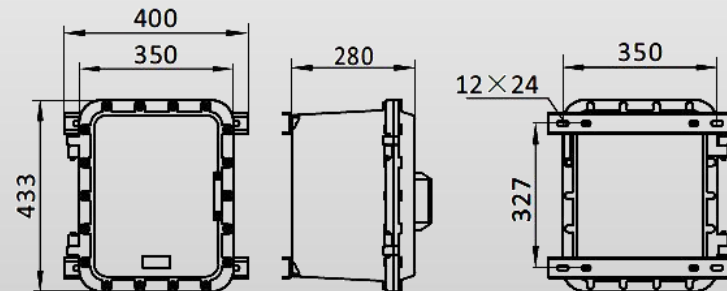
Enclosure 03



Enclosure 07



Enclosure 08



Enclosure 11

Case:

A	B	C	D	E	F	G	H	I	J	K	L	M	
				NO.	SYMBOL	NAME	MODEL	QTY	REMARKS	GENERAL NOTE			
				1		Box	350*210*170mm	1	Aluminum alloy	Technical Requirements: 1. Aluminum alloy enclosure, powder coated, Industrial gray with dark lines texture (RAL7035). 2. Ex mark: II 2 GD Ex db IIB T6 Gb, Ex tb IIIC T80°C Db; 3. IP protection grade: IP66. 4. Installation direction: Hanging mounting; 5. KHJ ATEX/IECEX English nameplate. 6. Perforated enclosure, user equip with glands that meets the ex requirements			
				2		Mounting plate	256*116*2	1	Galvanized sheet				
				3		Din rails	NS35 7.5/115mm	1	Phoenix(EN 60715)				
										ORDER NO.			NO
										QTY.		3	



Thank you!