Explosion-proof Electrical Apparatus(magnetic starter)

KDP06- Series

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

1. Application and Features

- Explosion proof certificates
  - ATEX : TPS 22 ATEX 114950 0003 X
  - IECEx : IECEx TPS 22.0025X
- Application in hazardous area
  Zone 1 and Zone 2,
  Zone 21 and Zone 22
- Three types of explosion protection: Ex db IIB, Ex db IIB+H_2, 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.
- 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.

2. Product definition

K	DP	06	X	X	X	X	X
K -KHJ	Explosion-proof electrical apparatus	Design No.	Enclosure code	Power of motor(kw)	Rated current of circuit breaker(A) (Optional)	Setting current of thermal relay(A)	S-Direct control (Optional) N-Reversible control (Optional) Y-Star delta control (Optional)

Note:

1. Please select the model according to the "Product definition" above, and specify all the technical parameters.
2. Please provide the electrical schematic diagram.
3. Please specify the number, specification and position of the cable entry holes, and ex-proof cable glands provided by user.
4. The rain shade is customizable by requirements.

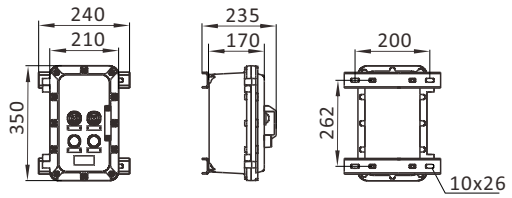
3. Technical Parameter

Ex marking	Gas	II 2 G Ex db IIB T6/T5/T4 Gb	Ex db IIB T6/T5/T4 Gb
		II 2 G Ex db IIB+H2 T6/T5/T4 Gb	Ex db IIB+H2 T6/T5/T4 Gb
	Dust	II 2 D Ex tb IIIC T80/T95/T130°C Db	Ex tb IIIC T80/T95/T130°C Db
Exectutive standards		IEC 60079-0,IEC 60079-1,IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-31	
Enclosure material	Enclosure	Aluminum alloy enclosure, powder coated, Industrial grey with dark lines texture (RAL7035)	
	Transparent part	Tempered glass, resistant to 4J impact	
	Rain shade	Bended steel plate surface powder coated, industrial grey with dark lines texture (RAL7035) or stainless steel 304/316, please note when needed	
Exposed fasteners		Stainless steel	
Components	Power circuit breaker	Miniature circuit breaker (MCB) or molded case circuit breaker (MCCB) and leakage circuit breaker	
	Branch switch	Miniature circuit breaker (MCB) or molded case circuit breaker (MCCB) and leakage circuit breaker	
	Terminal block	World famous brand	
	Indicator	Red, green, yellow, blue, white	
	Button	Red, green, yellow, blue, white	
	Control switch	LW26-D, LW26-F	
	AC contactor	World famous brand	
	Thermal relay	World famous brand	
Rated voltage		Maximum 690V AC	
Rated current		Maximum 200A	
Frequency		50Hz/60Hz	

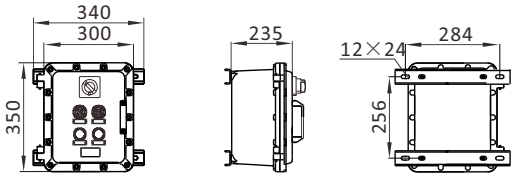
			Ta:+40°C						Ta:+60°C				
	Enclosure size	Type	T6/T80°C		T5/T95°C		T4/T130°C		T6/T80°C		T5/T95°C		The weight of Empty enclosure
			Power	Current	Power	Current	Power	Current	Power	Current	Power	Current	
Maximum dissipation power	282×210×170	03	45W	--	110W	--	110W	--	45W	--	72W	--	9.0kg
	350×210×170	07	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

Degree of protection	IP66
Ambient temperature	-20°C~+40/60°C, -40°C~+40/60°C
Cable entry	M16×1.5-M63×1.5(default, exact size according to requirement) , NPT thread (optional), KBM Series Explosion-proof Cable Glands is recommended
Inlet direction	Bottom in and bottom out, upon request
Installation method	Wall type (Standard)
	Stand type (Optional)

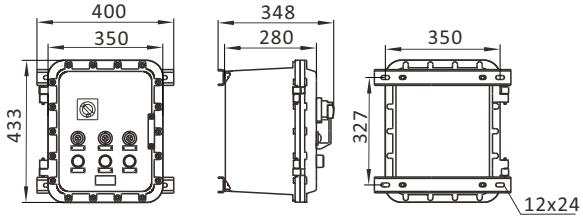
4. Outline and Installation(mm)



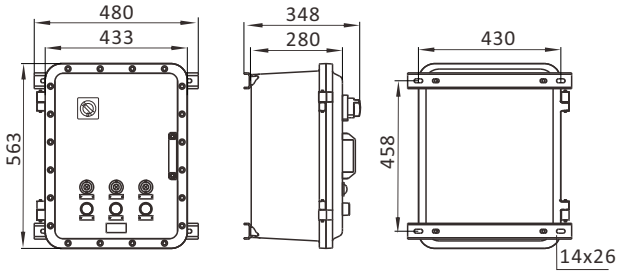
KDP06-07/3kW



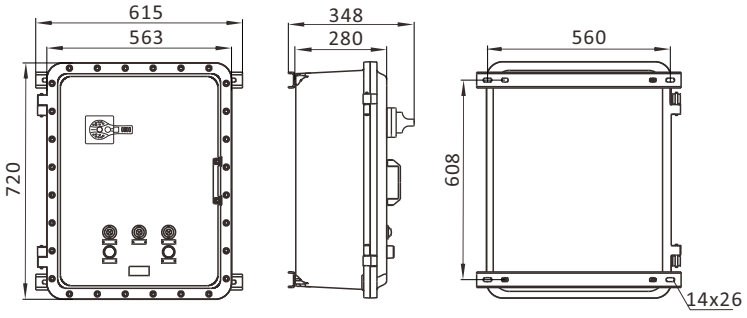
KDP06-08/4kW ~ 7.5kW



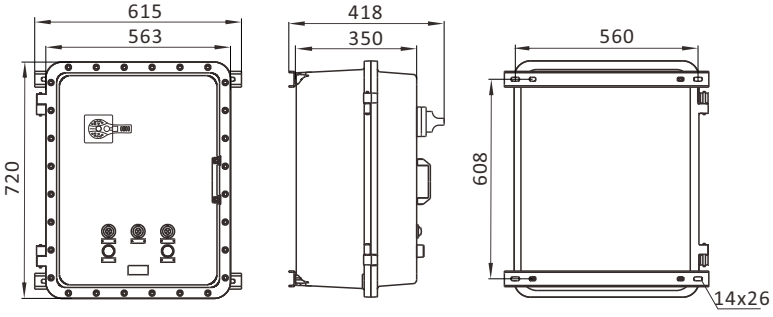
KDP06-11/11kW ~ 22kW



KDP06-15/30kW ~ 37kW

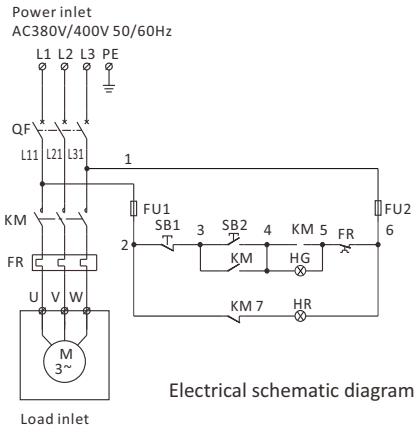


KDP06-19/45kW ~ 55kW



KDP06-21/75kW ~ 90kW

5. Electrical Schematic Diagram



Electrical schematic diagram of direct start

Description of electrical components code

QF: Circuit breaker

KM: AC contactor

FR: Thermal relay

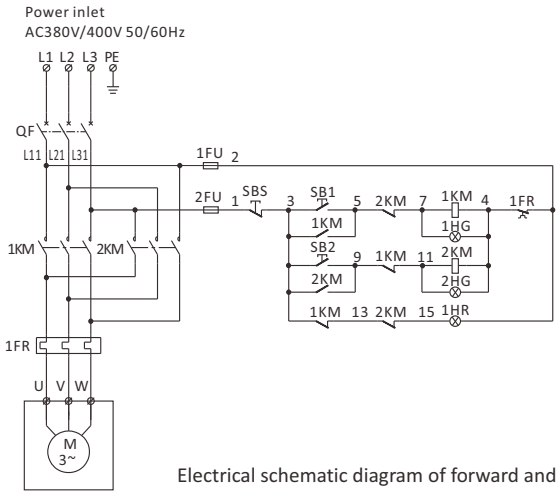
FU1, FU2: Fuse

SB1: Stop button

SB2: Start button

HR: Stop indicator

HG: Run indicator



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

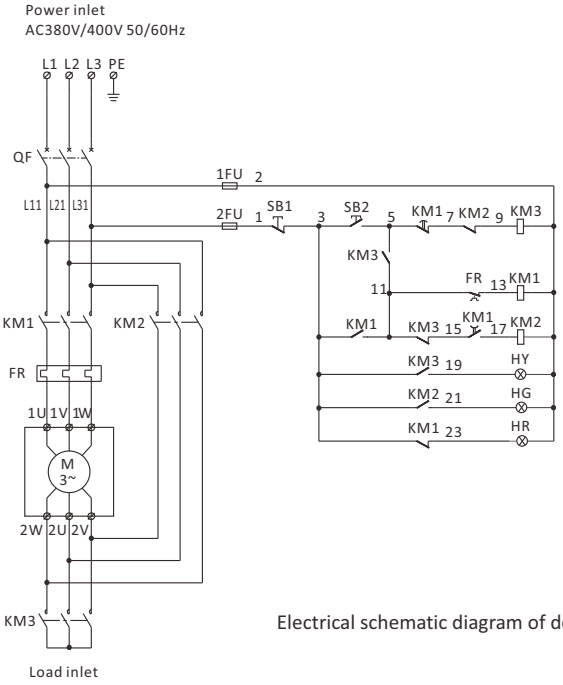
SB1: Forward start button

SB2: Reverse start button

HR: Stop indicator

HG1: Forward running indicator

HG2: Reverse running indicator



Electrical schematic diagram of delta start

Description of electrical components code

QF: Circuit breaker

KM1: Main contactor

KM2: Delta running contactor

KM3: Delta start contactor

FR: Thermal relay

FU1, FU2: Fuse

SB1: Stop button

SB2: Start button

HR: Stop indicator

HY: Delta start indicator

HG: Delta running indicator