

HLBCK07- Series Explosion-proof Safety Switch

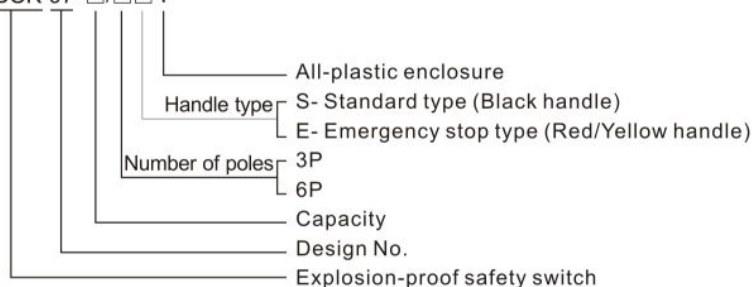
1 Application and Features

- Explosion protection
 - IECEx (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2,
 - Zone 21 and Zone 22
- Black operating handle for standard, Red/Yellow operating handle for Emergency stop.
- The joint of the enclosure and the cover has a labyrinth sealing structure, sealed with imported polyurethane foam or silicon rubber, has good performance of water-proof and dust-proof.
- Equipped with an interlocking mechanism, in the locked state, the switch cannot be operated.



2 Nomenclature

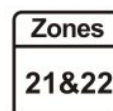
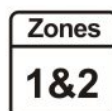
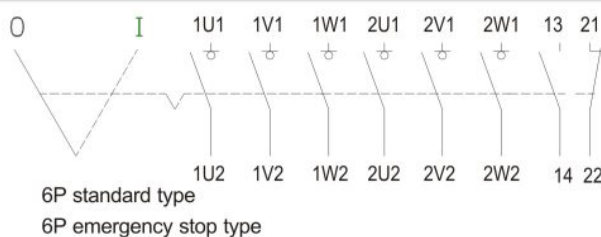
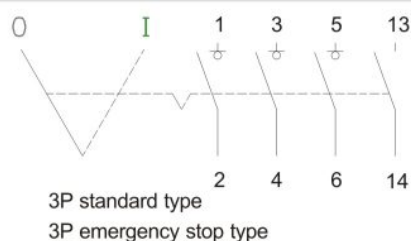
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3 Technical Parameter

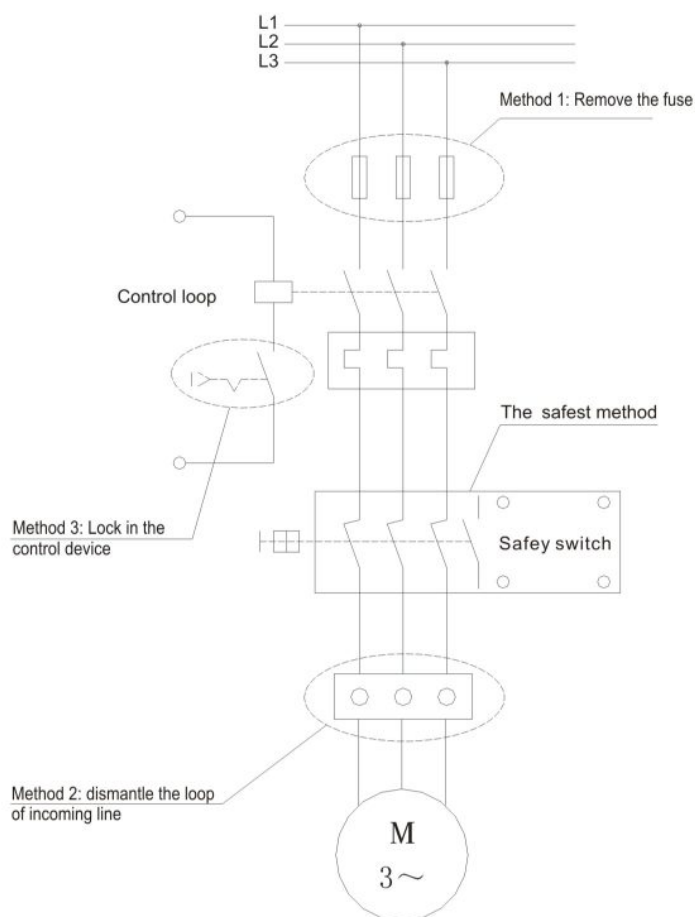
Ex marking	Gas	Ex II 2 G Ex db eb IIC T6/T5/T4 Gb		Ex db eb IIC T6/T5 Gb	Ex d e IIC T6/T5 Gb
	Dust	Ex II 2 D Ex tb IIIC T80/T95/130℃ Db		Ex tb IIIC T80/T95/130℃ Db	Ex tD A21 IP66 T80/95/130℃
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 GB3836.1,GB3836.2,GB3836.3,GB12476.1,GB12476.5			
Enclosure material	Enclosure	GRP (Polyester resin, glass fibre reinforced), antistatic			
	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			
Degree of protection		IP66			
Ambient temperature		-40℃ ~ +40/55℃			
Capacity(A) AC-3	AC230V	25	40	80	180
	AC400V	25	40	80	180
	AC500V	20	40	80	150
	AC690V	16	32	63	125
Sectional area of terminal(mm ²)		2X6	2X16	1X35	125A 1X50/70 180A 1X120
Cable entries		2XM25, 1XM20(3P) 4XM25, 1XM20(6P)	2XM40, 1XM20(3P) 4XM40, 1XM20(6P)	2XM50, 1XM20(3P) 4XM50, 1XM20(6P)	2XM63, 1XM20(3P)
Cable outer diameter(mm)		φ 10~φ 14 (M25) φ 6 ~φ 12 (M20)	φ 17~φ 26 (M40) φ 6 ~φ 12 (M20)	φ 24~φ 36 (M50) φ 6 ~φ 12 (M20)	φ 37~φ 44 (M65) φ 6 ~φ 12 (M20)

4 Wiring diagram

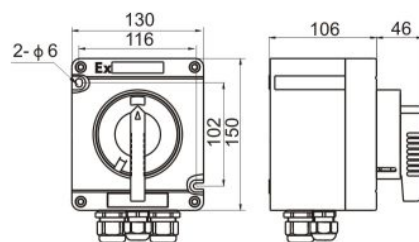


5 Electrical Schematic Diagram

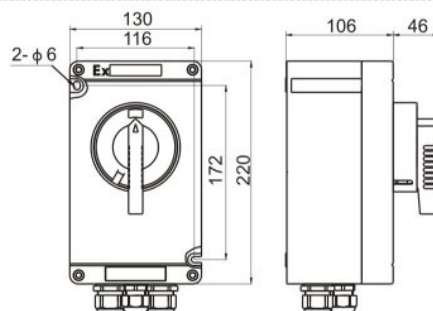
Methods of dismantle the input power supply of motor during maintenance



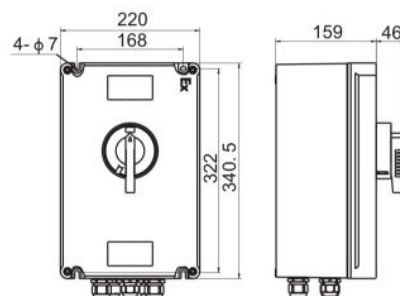
6 Outline and Installation Dimension (Dimensions in mm)



HLBCK07-16/3P

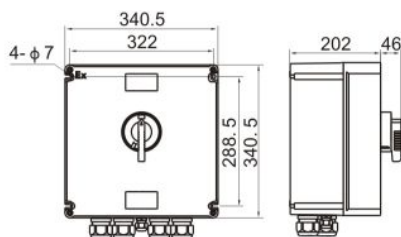


HLBCK07-25/3P



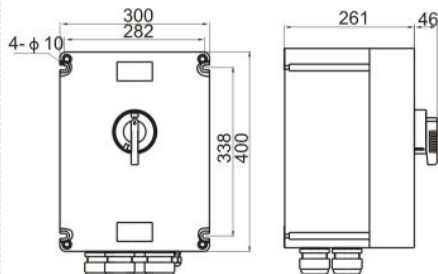
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HLBCK07-40/3P

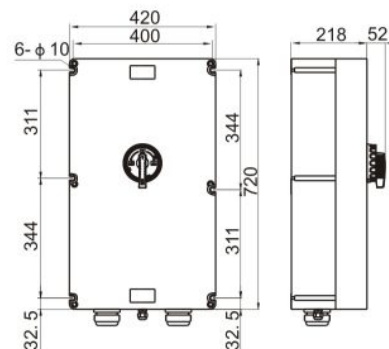


HLBCK07-40/6P

HLBCK07-80/3P



HLBCK07-80/6P



HLBCK07-180/3P