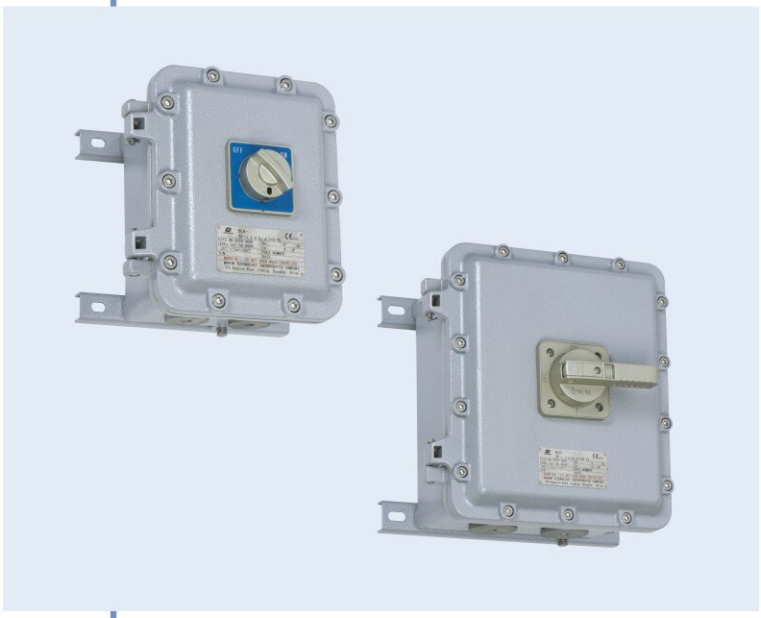
Motor Switches
BLK Series Explosion-proof Motor Switches (Ex d IIB)



- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 1 and Zone 2
  Zone 21 and Zone 22
  Class I, Zone 1 and Zone 2
  Class I, Division 1, Groups C, D
- Classified as IIB according to gas atmosphere.
- Copper-free Aluminium Alloy enclosure, powder-coated surface.
- Built-in MCB (miniature circuit breaker), MCCB (moulded case circuit breaker).
- Earth leakage protection device is optional.

Catalogue number logic

BLK - □ / □ / □ / □

- L: earth leakage protection (optional)
- Rated current (A)
- Number of pole (1P, 2P, 3P, 4P)
- Enclosure type (63, 160, 250)
- Explosion-proof motor switches

Note

1. Please select the model by Catalogue number logic above, and specify all technical data;
2. Please specify Ex-mark when ordering;
3. Entry size and direction on request.

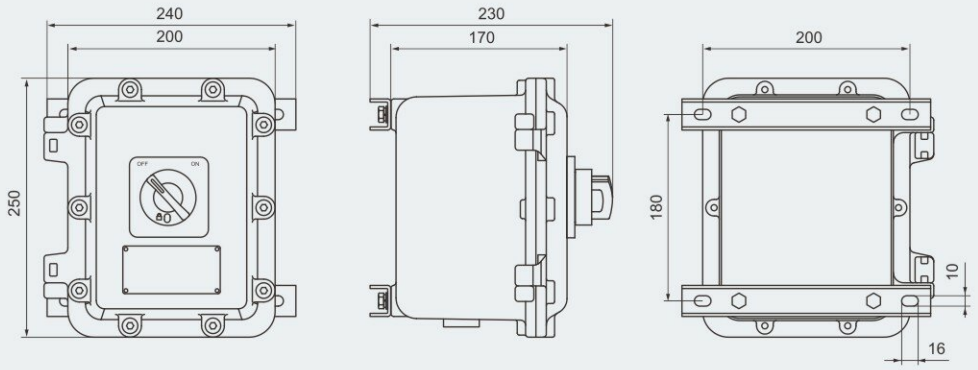
Zones 1&2; 21&22

Technical data

Explosion-proof motor switches BLK-63/□/□/□

Explosion protection	
Global (IECEx)	IECEx CNEx 18.0034X
Gas and dust	Ex db IIB T6 Gb
	Ex tb IIIC T80℃ Db
Europe (ATEX)	CNEX 18 ATEX 0027 X
Gas and dust	Ⓔx II 2 G Ex db IIB T6 Gb
	Ⓔx II 2 D Ex tb IIIC T80℃ Db
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31
	IEC 60079-0, IEC 60079-1, IEC 60079-31
Enclosure material	Copper-free Aluminium Alloy, powder coated surface
Enclosure colour	Window grey (RAL7040)
Exposed fastener	Stainless steel
Circuit breaker	MCB (miniature circuit breaker)
Max. working voltage	440V AC 50/60Hz
Rated voltage	1P/230V AC, 2P/3P/4P/400V AC 50/60Hz
Rated current	16A/32A/63A
Number of pole	1P, 2P, 3P, 4P
Breaking capacity	6kA, 10kA, 15kA
Tripping characteristic	Instantaneous tripping range (5~10) In, (7~10) In or (10~14) In
Impulse withstand voltage	6kV
Degree of protection	IP66
Internal&external earthing	M6/M6
Ambient temperature	-60℃~+60℃
Cable entries	Standard 1~16A: 2 x M25 x 1.5 plugs
	20~32A: 2 x M32 x 1.5 plugs
	40~63A: 2 x M40 x 1.5 plugs
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~31
Entry direction	Bottom
Enclosure weight	8.00 kg
Earth leakage protection	On request

Dimension drawings (all dimensions in mm) - subject to alteration



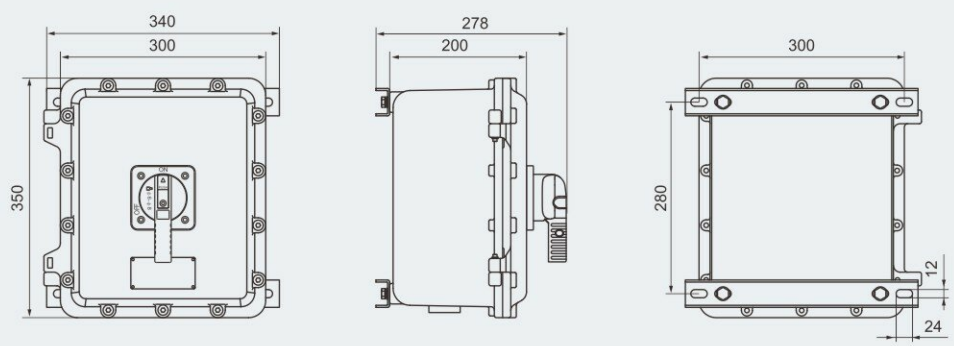
BLK-63/□/□/□

Technical data

Explosion-proof motor switches BLK-160/□/□/□

Explosion protection	
Global (IECEx)	IECEx CNEx 18.0034X
Gas and dust	Ex db IIB T6 Gb
	Ex tb IIIC T80℃ Db
Europe (ATEX)	CNEX 18 ATEX 0027 X
Gas and dust	Ⓔx II 2 G Ex db IIB T6 Gb
	Ⓔx II 2 D Ex tb IIIC T80℃ Db
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31
	IEC 60079-0, IEC 60079-1, IEC 60079-31
Enclosure material	Copper-free Aluminium Alloy, powder coated surface
Enclosure colour	Window grey (RAL7040)
Exposed fastener	Stainless steel
Circuit breaker	MCCB (moulded case circuit breaker)
Max. working voltage	690V AC 50/60Hz
	500V DC
Rated current	80A/100A/125A/160A
Number of pole	3P, 4P
Breaking capacity	380/415V AC 50/60Hz, 36kA/50kA
	440V AC 50/60Hz, 30kA/45kA
Impulse withstand voltage	8kV
Tripping characteristic	Thermomagnetic type
Degree of protection	IP66
Internal&external earthing	M6/M8
Ambient temperature	-60℃~+60℃
Cable entries	Standard 80~100A: 2 x M50 x 1.5 plugs
	125~160A: 2 x M63 x 1.5 plugs
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~31
Entry direction	Bottom
Enclosure weight	18.90kg
Earth leakage protection	On request

Dimension drawings (all dimensions in mm) - subject to alteration



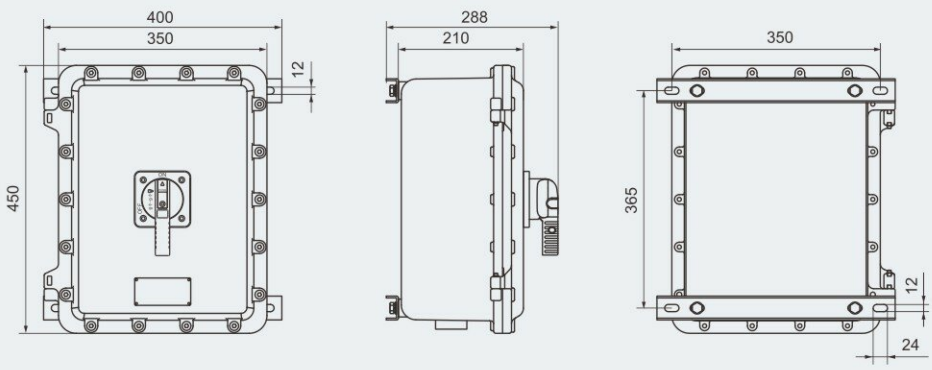
BLK-160/□/□/□

Technical data

Explosion-proof motor switches BLK-250/□/□/□

Explosion protection	
Global (IECEx)	IECEx CNEx 18.0034X
Gas and dust	Ex db IIB T6 Gb
	Ex tb IIIC T80℃ Db
Europe (ATEX)	CNEX 18 ATEX 0027 X
Gas and dust	Ⓔx II 2 G Ex db IIB T6 Gb
	Ⓔx II 2 D Ex tb IIIC T80℃ Db
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31
	IEC 60079-0, IEC 60079-1, IEC 60079-31
Enclosure material	Copper-free Aluminium Alloy, powder coated surface
Enclosure colour	Window grey (RAL7040)
Exposed fastener	Stainless steel
Circuit breaker	MCCB (moulded case circuit breaker)
Max. working voltage	690V AC 50/60Hz
	500V DC
Rated current	200A/250A
Number of pole	3P, 4P
Breaking capacity	380/415V AC 50/60Hz, 36kA/50kA
	440V AC 50/60Hz, 25kA/40kA
Impulse withstand voltage	8kV
Tripping characteristic	Thermomagnetic type
Degree of protection	IP66
Internal&external earthing	M6/M8
Ambient temperature	-60℃~+60℃
Cable entries	Standard 2 x M63 x 1.5 plugs
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~31
Entry direction	Bottom
Enclosure weight	28.50kg
Earth leakage protection	On request
Note	Rated current > 250A on request.

Dimension drawings (all dimensions in mm) - subject to alteration



BLK-250/□/□/□