



Loads and Motor Switchgears

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More products are under development. Please contact us or visit our website for the latest product development. We reserve the right to make alteration to the technical data, weight, dimensions, designs and products available without notice.

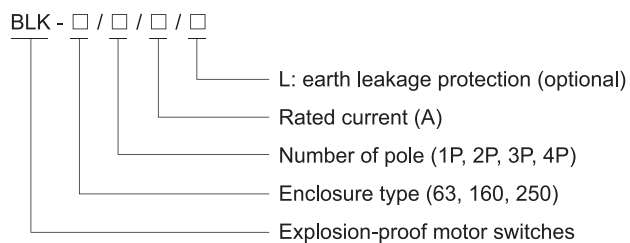
Motor Switches

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 enclosure, powder-coated surface.
- ◆ Built-in MCB (miniature circuit breaker), MCCB (moulded case circuit breaker).
- ◆ Earth leakage protection device is optional.

■ Catalogue number logic



■ 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

Motor Switches

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

Technical data

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

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIB T6 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP66

Certificates

LCIE 06 ATEX 6091; IECEx LCI 08.0009; KZ.7500525.22.01.00362 (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, 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

1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 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

Ambient temperature

-60°C ~ +60°C

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 P7/20~27

Entry direction

Bottom

Enclosure weight

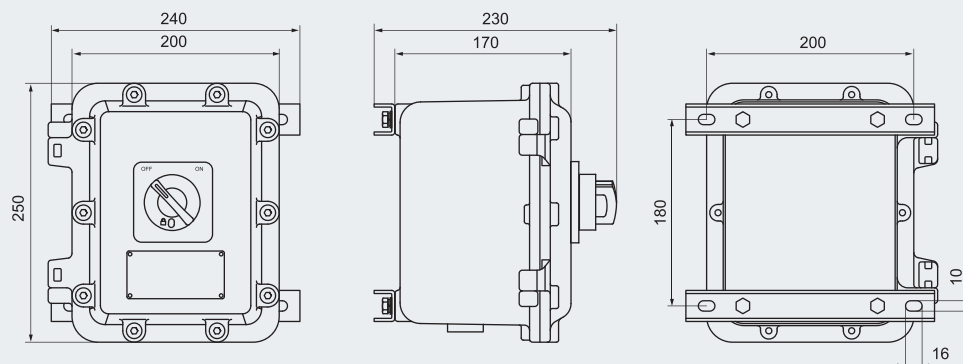
8.00 kg

Earth leakage protection

On request



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



BLK-63/□/□/□

Motor Switches

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

Technical data

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

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIB T6 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP66

Certificates

LCIE 06 ATEX 6091; IECEX LCI 08.0009; KZ.7500525.22.01.00362 (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, 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

Ambient temperature

-60°C~+60°C

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 P7/20~27

Entry direction

Bottom

Enclosure weight

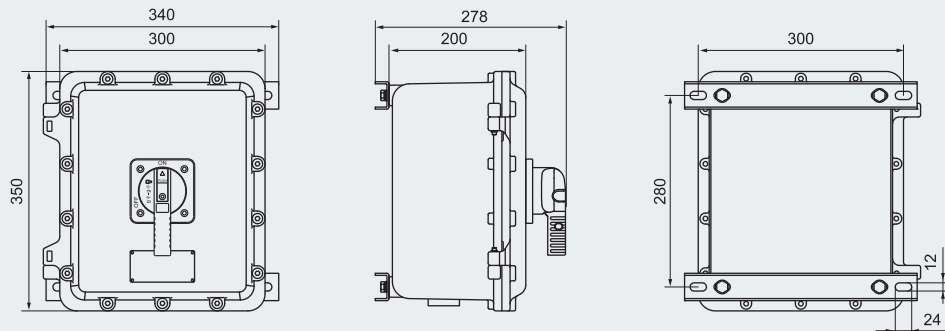
18.90kg

Earth leakage protection

On request



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



BLK-160/□/□/□

Motor Switches

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

Technical data

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

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIB T6 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP66

Certificates

LCIE 06 ATEX 6091; IECEx LCI 08.0009; KZ.7500525.22.01.00362 (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, 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

Ambient temperature

-60°C~+60°C

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 P7/20~27

Entry direction

Bottom

Enclosure weight

28.50kg

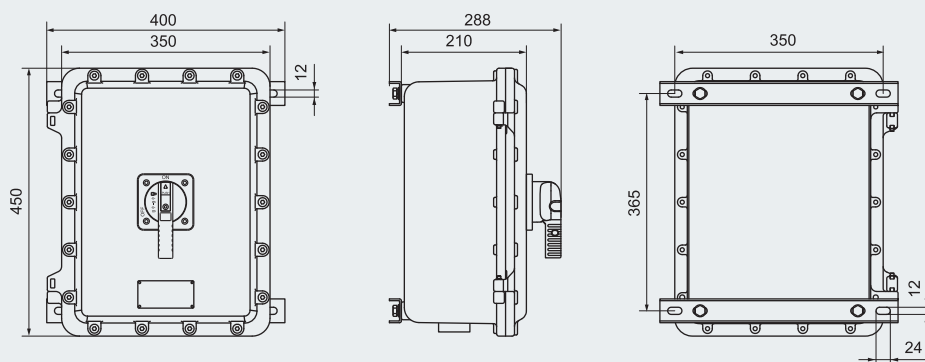
Earth leakage protection

On request

Note

Rated current > 250A on request.

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



BLK-250/□/□/□

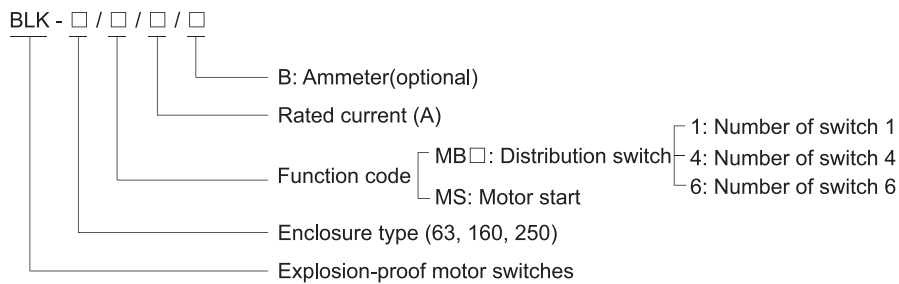
Motor Switches

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



- ◆ 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 A, B, C, D
- ◆ Classified as IIC according to gas atmosphere.
- ◆ Copper-free aluminium enclosure, powder coated surface.
- ◆ Built-in MCB (miniature circuit breaker), MCCB (moulded case circuit breaker).
- ◆ Earth leakage protection device is optional.

■ Catalogue number logic



■ 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

Motor Switches

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

Technical data

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

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIC T6 Gb Ex d IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP66 Ex t IIIC T80°C Db IP66

Certificates

DNV 12 ATEX 1179X

IECEX CQM 12.0037X

KZ.7500525.22.01.00362 (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, 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

1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A

Number of pole

1P, 2P, 3P, 4P

Breaking capacity

6kA, 10kA, 15kA

Impulse withstand voltage

6kV

Tripping characteristic

Instantaneous tripping range (5~10) In, (7~10) In or (10~14) In

Degree of protection

IP66

Ambient temperature

-60°C ~ +55°C

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 P7/20~27

Entry direction

Bottom

Enclosure weight

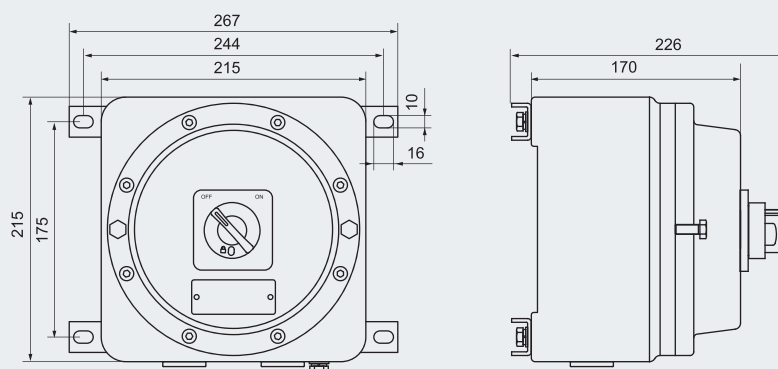
6.50 kg

Earth leakage protection

On request



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



BLK-63/MB □/□

Motor Switches

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

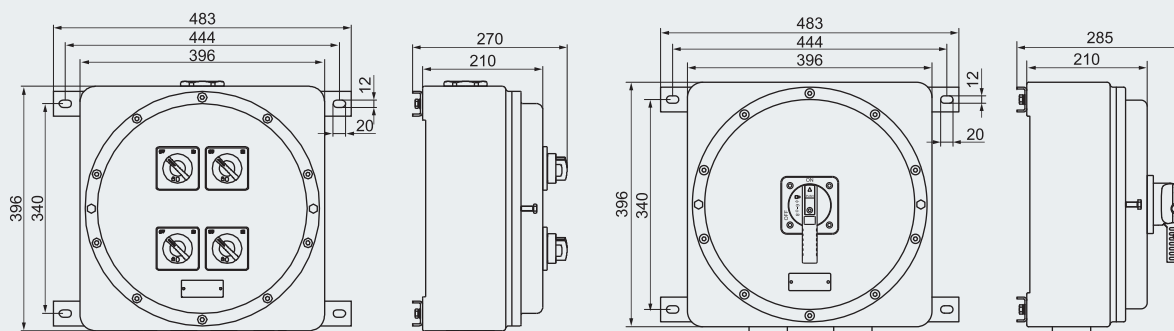
Technical data

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

Explosion protection		
Gas explosion protection	⊕ II 2 G Ex d IIC T6 Gb	Ex d IIC T6 Gb
Dust explosion protection	⊕ II 2 D Ex tb IIIC T80°C Db IP66	Ex t IIIC T80°C Db IP66
Certificates	DNV 12 ATEX 1179X KZ.7500525.22.01.00362 (CU-TR)	IECEX CQM 12.0037X
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, powder coated surface	
Enclosure colour	Window grey (RAL7040)	
Exposed fastener	Stainless steel	
Circuit breaker	MCB (miniature circuit breaker); MCCB (moulded case circuit breaker)	
Max. working voltage	MCB: 440V AC 50/60Hz; MCCB: 690V AC 50/60Hz; 500V DC	
Rated voltage	MCB: 1P/230V AC, 2P/3P/4P/400V AC 50/60Hz	
Rated current	MCB: max.250A MCCB: 80A, 100A, 125A, 160A	
Number of pole	MCB: 1P, 2P, 3P, 4P MCCB: 3P, 4P	
Breaking capacity	MCB: 6kA, 10kA, 15kA MCCB: 380/415V AC 50/60Hz, 36kA/50kA; 440V AC 50/60Hz, 30kA/45kA	
Impulse withstand voltage	MCB: 6kV; MCCB: 8kV	
Tripping characteristic	Thermomagnetic type	
Degree of protection	IP66	
Ambient temperature	-60°C~+55°C	
Cable entries	Standard 4 x 1~16A: 1 x M40 x 1.5 + 4 x M25 x 1.5 plugs 4 x 20~32A: 1 x M50 x 1.5 + 4 x M32 x 1.5 plugs 4 x 40~63A: 1 x M63 x 1.5 + 4 x M40 x 1.5 plugs 1 x 80~100A: 2 x M50 x 1.5 plugs 1 x 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 P7/20~27	
Entry direction	Bottom	
Enclosure weight	21.00kg	
Earth leakage protection	On request	



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



BLK-160/MB□/□

Motor Switches

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

Technical data		
Explosion-proof motor switches	BLK-160/MS/□	
Explosion protection	Ⓔ II 2 G Ex d IIC T6 Gb Ⓔ II 2 D Ex tb IIIC T80°C Db IP66	Ex d IIC T6 Gb Ex t IIIC T80°C Db IP66
Certificates	DNV 12 ATEX 1179X KZ.7500525.22.01.00362 (CU-TR)	IECEX CQM 12.0037X
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, powder coated surface	
Enclosure colour	Window grey (RAL7040)	
Exposed fastener	Stainless steel	
Components	MCB (miniature circuit breaker) AC contactor Thermal overload relay Indicator, pushbutton	
Rated voltage	380/440V AC 50/60Hz	
Degree of protection	IP66	
Ambient temperature	-60°C~+55°C	
Cable entries	Standard M□ x 1.5 plug; See Selection table as below	
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27	
Entry direction	Bottom	

Selection table						
Version	Control motor power (kW)	Rated current of circuit breaker (A)	Adjustable range of setting current of thermal relay (A)	Rated current of contactor (A)	Cable entry size	Enclosure weight (kg)
BLK-160/MS/16	4	16	7~10, Ie=8.5	9	2 x M25 x 1.5	21.00
BLK-160/MS/20	5.5	20	9~13, Ie=11	12	2 x M25 x 1.5	21.00
BLK-160/MS/25	7.5	25	12~18, Ie=16	18	2 x M32 x 1.5	21.00
BLK-160/MS/32	11	32	16~24, Ie=23	25	2 x M32 x 1.5	21.00
BLK-160/MS/40	15	40	23~32, Ie=30	32	2 x M32 x 1.5	21.00
BLK-160/MS/50	18.5	50	30~38, Ie=36	40	2 x M40 x 1.5	21.00
BLK-160/MS/63	22	63	37~50, Ie=46	50	2 x M40 x 1.5	21.00

Dimension drawings (all dimensions in mm) - subject to alteration	
BLK-160/MS/□	



Motor Switches

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

Technical data

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

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIC T6 Gb

Ex d IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex tb III C T80°C Db IP66

Ex t III C T80°C Db IP66

Certificates

DNV 12 ATEX 1179X

IECEX CQM 12.0037X

KZ.7500525.22.01.00362 (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, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Circuit breaker

MCB (miniature circuit breaker); MCCB (moulded case circuit breaker)

Max. working voltage

MCB: 440V AC 50/60Hz;

MCCB: 690V AC 50/60Hz; 500V DC

Rated voltage

MCB: 1P/230V AC, 2P/3P/4P/400V AC 50/60Hz

Rated current

MCB: max.250A

MCCB: 200A, 250A

Number of pole

MCB: 1P, 2P, 3P, 4P

MCCB: 3P, 4P

Breaking capacity

MCB: 6kA, 10kA, 15kA

MCCB: 380/415V AC 50/60Hz, 36kA/50kA; 440V AC 50/60Hz, 30kA/45kA

Impulse withstand voltage

MCB: 6kV; MCCB: 8kV

Tripping characteristic

Thermomagnetic type

Degree of protection

IP66

Ambient temperature

-60°C~+55°C

Cable entries

Standard 6 x 1~16A: 1 x M40 x 1.5 + 6 x M25 x 1.5 plugs

6 x 20~32A: 1 x M50 x 1.5 + 6 x M32 x 1.5 plugs

6 x 40~63A: 1 x M63 x 1.5 + 6 x M40 x 1.5 plugs

1 x 200~250A: 2 x M63 x 1.5 plugs

Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27

Entry direction

Bottom

Enclosure weight

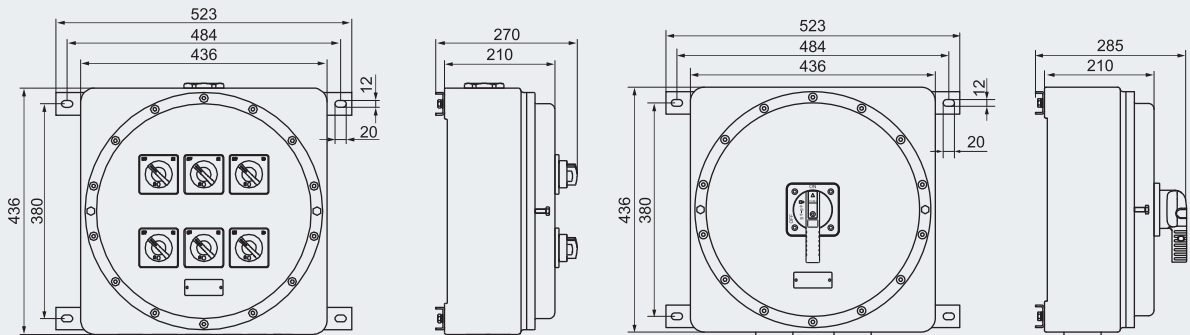
24.00kg

Earth leakage protection

On request



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



BLK-250/MB □/□

Motor Switches

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

Technical data		
Explosion-proof motor switches	BLK-250/MS/□/B	
Explosion protection	Ⓧ II 2 G Ex d IIC T6 Gb Ⓧ II 2 D Ex tb IIIC T80°C Db IP66	Ex d IIC T6 Gb Ex t IIIC T80°C Db IP66
Certificates	DNV 12 ATEX 1179X KZ.7500525.22.01.00362 (CU-TR)	IECEX CQM 12.0037X
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, powder coated surface	
Enclosure colour	Window grey (RAL7040)	
Exposed fastener	Stainless steel	
Components	MCB (miniature circuit breaker) AC contactor Thermal overload relay Indicator, pushbutton Ammeter	
Rated voltage	380/440V AC 50/60Hz	
Degree of protection	IP66	
Ambient temperature	-60°C~+55°C	
Cable entries	Standard M□ x 1.5 plug; See Selection table as below	
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27	
Entry direction	Bottom	

Selection table						
Version	Control motor power (kW)	Rated current of circuit breaker (A)	Adjustable range of setting current of thermal relay (A)	Rated current of contactor (A)	Cable entry size	Enclosure weight (kg)
BLK-250/MS/16/B	4	16	7~10, Ie=8.5	9	2 x M25 x 1.5	24.00
BLK-250/MS/20/B	5.5	20	9~13, Ie=11	12	2 x M25 x 1.5	24.00
BLK-250/MS/25/B	7.5	25	12~18, Ie=16	18	2 x M32 x 1.5	24.00
BLK-250/MS/32/B	11	32	16~24, Ie=23	25	2 x M32 x 1.5	24.00
BLK-250/MS/40/B	15	40	23~32, Ie=30	32	2 x M32 x 1.5	24.00
BLK-250/MS/50/B	18.5	50	30~38, Ie=36	40	2 x M40 x 1.5	24.00
BLK-250/MS/63/B	22	63	37~50, Ie=46	50	2 x M40 x 1.5	24.00

Dimension drawings (all dimensions in mm) - subject to alteration	
BLK-250/MS/□/B	



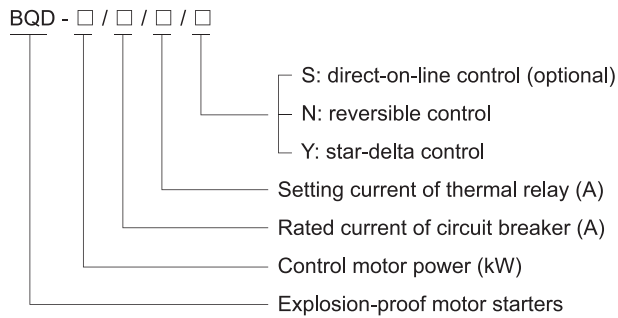
Standard Motor Starters

BQD Series Explosion-proof Motor Starters (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.
- ◆ Different motor starters.
- ◆ Copper-free aluminium enclosure, powder coated surface.

■ Catalogue number logic



■ 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, entry direction, enclosure material, etc. on request.



Zones 1&2; 21&22

Standard Motor Starters

BQD Series Explosion-proof Motor Starters (Ex d IIB)

Technical data	
Explosion-proof motor starters (direct-on-line control) BQD-□/□/□	
Explosion protection	<p>Gas explosion protection Ex II 2 G Ex d IIB T6/T5 Gb</p> <p>Dust explosion protection Ex II 2 D Ex tb IIIC T80°C/T95°C Db IP66</p>
Certificates	LCIE 06 ATEX 6090; IECEx LCI 08.0010
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, powder coated surface
Enclosure colour	Window grey (RAL7040)
Exposed fastener	Stainless steel
Components	MCB (miniature circuit breaker) AC contactor Thermal overload relay Indicator, pushbutton
Rated voltage	380/400V AC 50/60Hz
Degree of protection	IP66
Ambient temperature	T6/T80°C for Tamb: -60°C~+50°C; T5/T95°C for Tamb: -60°C~+60°C
Cable entries	Standard M□ x 1.5 plug; See Selection table as below
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27
Entry direction	Bottom

Selection table						
Version	Control motor power (kW)	Rated current of circuit breaker (A)	Adjustable range of setting current of thermal relay (A)	Rated current of contactor (A)	Cable entry size	Enclosure weight (kg)
BQD-4/16/7~10	4	16	7~10, Ie=8.5	9	2 x M25 x 1.5	20.00
BQD-5.5/20/9~13	5.5	20	9~13, Ie=11	12	2 x M25 x 1.5	20.00
BQD-7.5/25/12~18	7.5	25	12~18, Ie=16	18	2 x M32 x 1.5	20.00
BQD-11/32/16~24	11	32	16~24, Ie=23	25	2 x M32 x 1.5	30.00
BQD-15/40/23~32	15	40	23~32, Ie=30	32	2 x M32 x 1.5	30.00
BQD-18.5/50/30~38	18.5	50	30~38, Ie=36	40	2 x M40 x 1.5	30.00
BQD-22/63/37~50	22	63	37~50, Ie=46	50	2 x M40 x 1.5	30.00

Dimension drawings (all dimensions in mm) - subject to alteration	
<p>4kW-7.5kW</p>	<p>11kW-22kW</p>



Standard Motor Starters

BQD Series Explosion-proof Motor Starters (Ex d IIB)

Technical data

Explosion-proof motor starters (reversible control)

BQD-□/□/□/ N

Explosion protection

Gas explosion protection

⊕ Ex II 2 G Ex d IIB T6/T5 Gb

Dust explosion protection

⊕ Ex II 2 D Ex tb IIIC T80°C/T95°C Db IP66

Certificates

LCIE 06 ATEX 6090; IECEX LCI 08.0010

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, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Components

MCB (miniature circuit breaker)

AC contactor

Thermal overload relay

Indicator, pushbutton

Rated voltage

380/400V AC 50/60Hz

Degree of protection

IP66

Ambient temperature

T6/T80°C for Tamb: -60°C~+50°C; T5/T95°C for Tamb: -60°C~+60°C

Cable entries

Standard M□ x 1.5 plug; See Selection table as below

Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27

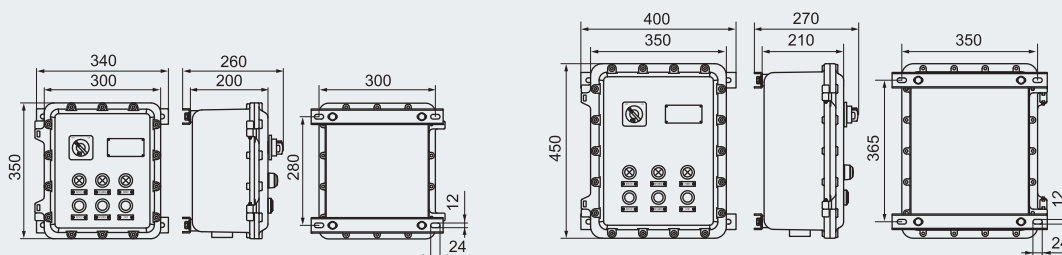
Entry direction

Bottom

Selection table

Version	Control motor power (kW)	Rated current of circuit breaker (A)	Adjustable range of setting current of thermal relay (A)	Rated current of contactor (A)	Cable entry size	Enclosure weight (kg)
BQD-4/16/7~10/N	4	16	7~10, Ie=8.5	9	2 x M25 x 1.5	20.50
BQD-5.5/20/9~13/N	5.5	20	9~13, Ie=11	12	2 x M25 x 1.5	20.50
BQD-7.5/25/12~18/N	7.5	25	12~18, Ie=16	18	2 x M32 x 1.5	20.50
BQD-11/32/16~24/N	11	32	16~24, Ie=23	25	2 x M32 x 1.5	30.50
BQD-15/40/23~32/N	15	40	23~32, Ie=30	32	2 x M32 x 1.5	30.50
BQD-18.5/50/30~38/N	18.5	50	30~38, Ie=36	40	2 x M40 x 1.5	30.50
BQD-22/63/37~50/N	22	63	37~50, Ie=46	50	2 x M40 x 1.5	30.50

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



4kW-7.5kW

11kW-22kW

Standard Motor Starters

BQD Series Explosion-proof Motor Starters (Ex d IIB)

Technical data

Explosion-proof motor starters (star-delta control) BQD-□/□/□/ Y

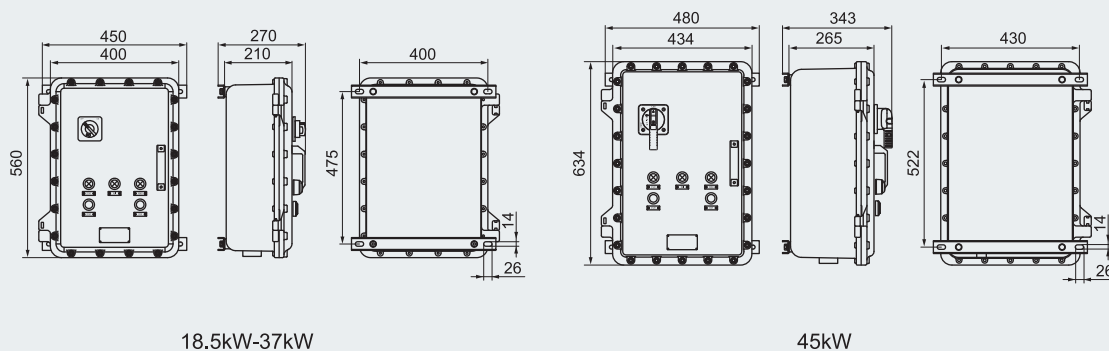
Explosion protection	<p>Gas explosion protection Ex II 2 G Ex d IIB T6/T5 Gb</p> <p>Dust explosion protection Ex II 2 D Ex tb IIIC T80°C/T95°C Db IP66</p>
Certificates	LCIE 06 ATEX 6090; IECEx LCI 08.0010
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31
Enclosure material	Copper-free aluminium, powder coated surface
Enclosure colour	Window grey (RAL7040)
Exposed fastener	Stainless steel
Components	MCB (miniature circuit breaker) or MCCB (moulded case circuit breaker) AC contactor Thermal overload relay Indicator, pushbutton
Rated voltage	380/400V AC 50/60Hz
Degree of protection	IP66
Ambient temperature	T6/T80°C for Tamb: -60°C~+50°C; T5/T95°C for Tamb: -60°C~+60°C
Cable entries	Standard M□ x 1.5 plug; See Selection table as below
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27
Entry direction	Bottom

Selection table

Version	Control motor power (kW)	Rated current of circuit breaker (A)	Adjustable range of setting current of thermal relay (A)	Setting value of delay time	Cable entry size	Enclosure weight (kg)
BQD-18.5/50/17~25/Y	18.5	32	17~25, Ie=23.5	13s	3 x M40 x 1.5	40.00
BQD-22/63/23~32/Y	22	40	23~32, Ie=28	15s	3 x M40 x 1.5	40.00
BQD-30/80/30~40/Y	30	50	30~40, Ie=38	17s	3 x M50 x 1.5	54.50
BQD-37/100/37~50/Y	37	63	37~50, Ie=47	18s	3 x M50 x 1.5	54.50
BQD-45/125/48~65Y	45	80	48~65, Ie=57	20s	3 x M63 x 1.5	54.50



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



Standard Motor Starters

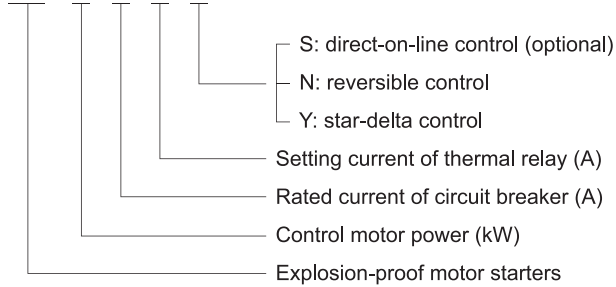
BQD Series Explosion-proof Motor Starters (Ex d e IIC)



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Classified as IIC according to gas atmosphere.
- ◆ Different motor starters.
- ◆ Copper-free aluminium enclosure, powder coated surface.

■ Catalogue number logic

BQD - □ / □ / □ / □



■ 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, entry direction, enclosure material, etc. on request.



Zones 1&2

Standard Motor Starters

BQD Series Explosion-proof Motor Starters (Ex d e IIC)

Technical data	
Explosion-proof motor starters (direct-on-line control) BQD-□/□/□	
Explosion protection	⊕ II 2 G Ex d e IIC T6 Ex d e IIC T6 Gb
Certificates	LCIE 10 ATEX 3075; IECEx CQM 11.0017X
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-7 IEC 60079-0, IEC 60079-1, IEC 60079-7
Enclosure material	Copper-free aluminium, powder coated surface
Enclosure colour	Window grey (RAL7040)
Exposed fastener	Stainless steel
Components	MCB (miniature circuit breaker) AC contactor Thermal overload relay Indicator, pushbutton
Rated voltage	380/400V AC 50/60Hz
Degree of protection	IP65
Ambient temperature	-20°C~+55°C
Cable entries	Standard M□ x 1.5 plug; See Selection table as below
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/17~19
Entry direction	Bottom

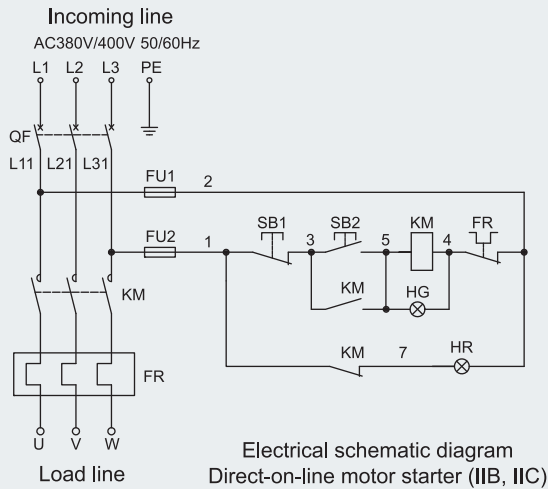
Selection table						
Version	Control motor power (kW)	Rated current of circuit breaker (A)	Adjustable range of setting current of thermal relay (A)	Rated current of contactor (A)	Cable entry size	Enclosure weight (kg)
BQD-4/16/7~10	4	16	7~10, Ie=8.5	9	2 x M25 x 1.5	28.00
BQD-5.5/20/9~13	5.5	20	9~13, Ie=11	12	2 x M25 x 1.5	28.00
BQD-7.5/25/12~18	7.5	25	12~18, Ie=16	18	2 x M32 x 1.5	28.00
BQD-11/32/16~24	11	32	16~24, Ie=23	25	2 x M32 x 1.5	28.00
BQD-15/40/23~32	15	40	23~32, Ie=30	32	2 x M32 x 1.5	28.00
BQD-18.5/50/30~38	18.5	50	30~38, Ie=36	40	2 x M40 x 1.5	28.00
BQD-22/63/37~50	22	63	37~50, Ie=46	50	2 x M40 x 1.5	28.00

Dimension drawings (all dimensions in mm) - subject to alteration	
4kW-22kW	



Standard Motor Starters BQD Series Explosion-proof Motor Starters (Ex d e IIC)

Electrical schematic diagram



Code of electric components

QF: circuit breaker

KM: AC contactor

FR: thermal relay

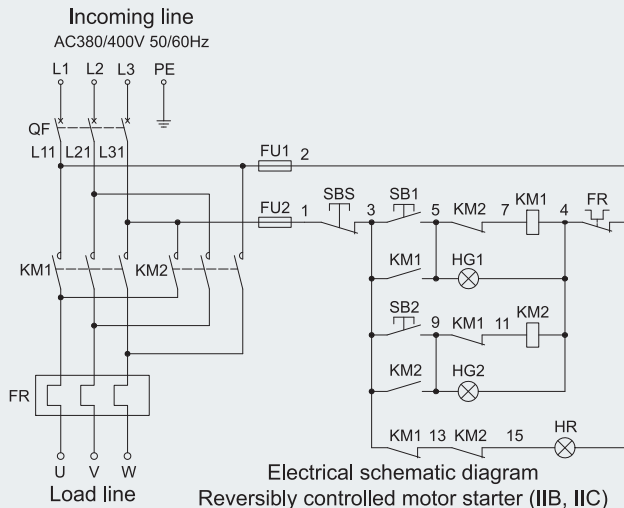
FU1, FU2: fuse

SB1: stop button

SB2: start button

HR: stop indicator

HG: running indicator



Code of electric components

QF: circuit breaker

KM1, KM2: AC contactor

FR: thermal relay

FU1, FU2: fuse

SBS: stop button

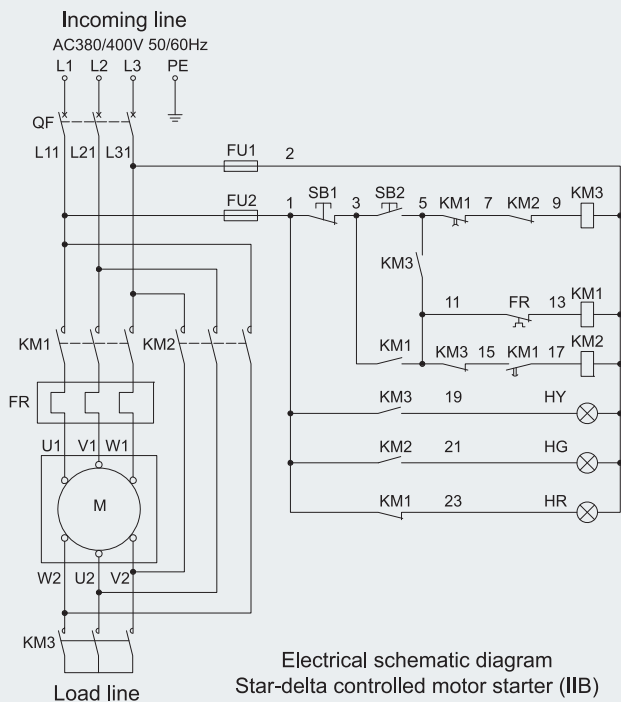
SB1: non-reversible start button

SB2: reversible start button

HR: stop indicator

HG1: non-reversible running indicator

HG2: reversible running indicator



Code of electric components

QF: circuit breaker

KM1: main contactor

KM3: star start contactor

KM2: delta running contactor

FR: thermal relay

FU1, FU2: fuse

SB1: stop button

SB2: start button

HR: stop indicator

HY: star start indicator

HG: delta running indicator

