

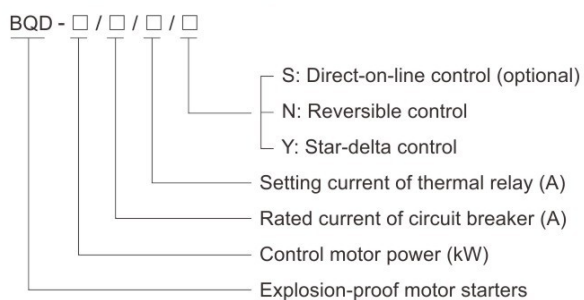
Standard Motor Starters

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 Alloy 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

Standard Motor Starters

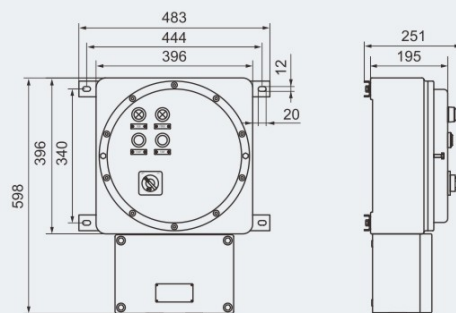
BQD Series Explosion-proof Motor Starters (Ex d e IIC)

Technical data	
Explosion-proof motor starters (direct-on-line control) BQD-□/□/□	
Explosion protection Global (IECEX) Gas and dust Europe (ATEX) Gas and dust	IECEX CQM 11.0017X Ex d e IIC T6 Gb LCIE 10 ATEX 3075 Ⓔ II 2 G Ex d e IIC T6
Certificates	IECEX; ATEX
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 Alloy, 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
Internal&external earthing	M6/M6
Ambient temperature	-20℃~+55℃
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-4/10/7~10	4	10	7~10, Ie=9	12	2 x M25 x 1.5	33.00
BQD-5.5/16/9~13	5.5	16	9~13, Ie=12	18	2 x M25 x 1.5	33.00
BQD-7.5/20/12~18	7.5	20	12~18, Ie=17	25	2 x M25 x 1.5	33.00
BQD-11/32/16~24	11	32	16~24, Ie=21	32	2 x M32 x 1.5	33.00
BQD-15/40/30~40	15	40	30~40, Ie=32	40	2 x M32 x 1.5	33.00
BQD-18.5/50/37~50	18.5	50	37~50, Ie=40	50	2 x M40 x 1.5	33.00
BQD-22/63/37~50	22	63	37~50, Ie=48	65	2 x M40 x 1.5	33.00



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



4kW-22kW

Standard Motor Starters

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

Technical data

Explosion-proof motor starters (reversible control)

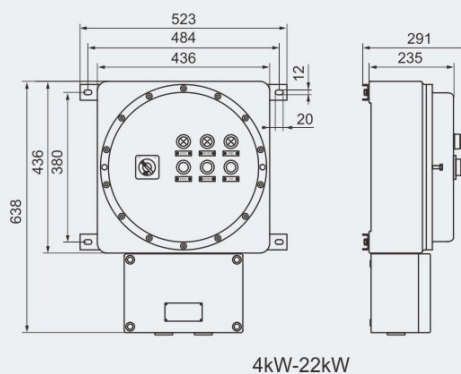
BQD-□/□/□/□

Explosion protection	IECEX CQM 11.0017X
Global (IECEX)	Ex d e IIC T6 Gb
Gas and dust	LCIE 10 ATEX 3075
Europe (ATEX)	Ⓔ II 2 G Ex d e IIC T6
Gas and dust	IECEX; ATEX
Certificates	EN 60079-0, EN 60079-1, EN 60079-7
Conformity to standards	IEC 60079-0, IEC 60079-1, IEC 60079-7
Enclosure material	Copper-free Aluminium Alloy, 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
Internal&external earthing	M6/M6
Ambient temperature	-20℃~+55℃
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-4/10/7~10/N	4	10	7~10, Ie=9	12	2 x M25 x 1.5	35.00
BQD-5.5/16/9~13/N	5.5	16	9~13, Ie=12	18	2 x M25 x 1.5	35.00
BQD-7.5/20/12~18/N	7.5	20	12~18, Ie=17	25	2 x M25 x 1.5	35.00
BQD-11/32/16~24/N	11	32	16~24, Ie=21	32	2 x M32 x 1.5	35.00
BQD-15/40/30~40/N	15	40	30~40, Ie=32	40	2 x M32 x 1.5	35.00
BQD-18.5/50/37~50/N	18.5	50	37~50, Ie=40	50	2 x M40 x 1.5	35.00
BQD-22/63/37~50/N	22	63	37~50, Ie=48	65	2 x M40 x 1.5	35.00

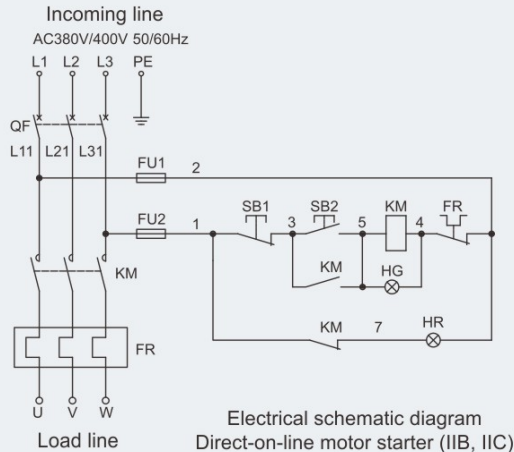
Dimension drawings (all dimensions in mm) - subject to alteration



Standard Motor Starters

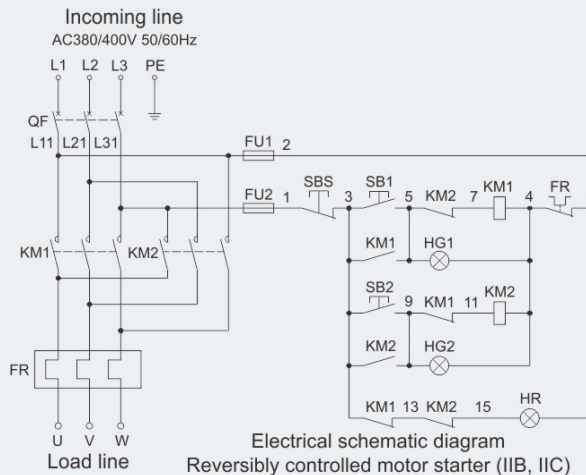
BQD Series Explosion-proof Motor Starters (Ex d e IIC)

Electrical schematic diagram



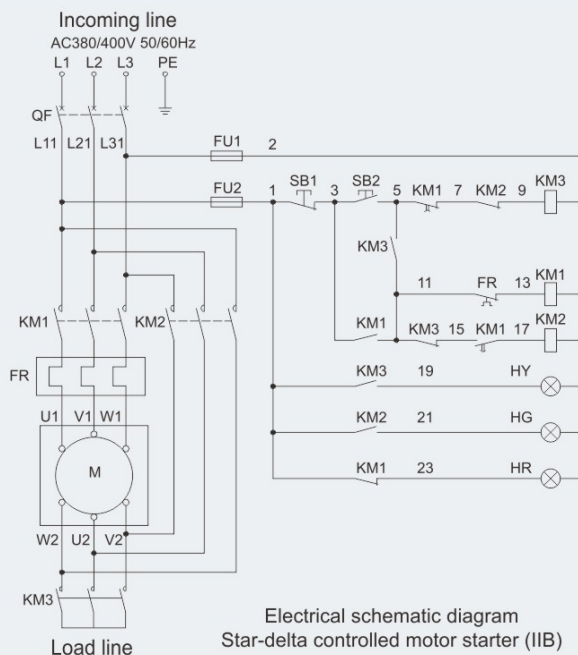
Code of electric components

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
KM2: delta running contactor
KM3: star start contactor
FR: thermal relay
FU1, FU2: fuse
SB1: stop button
SB2: start button
HR: stop indicator
HY: star start indicator
HG: delta running indicator