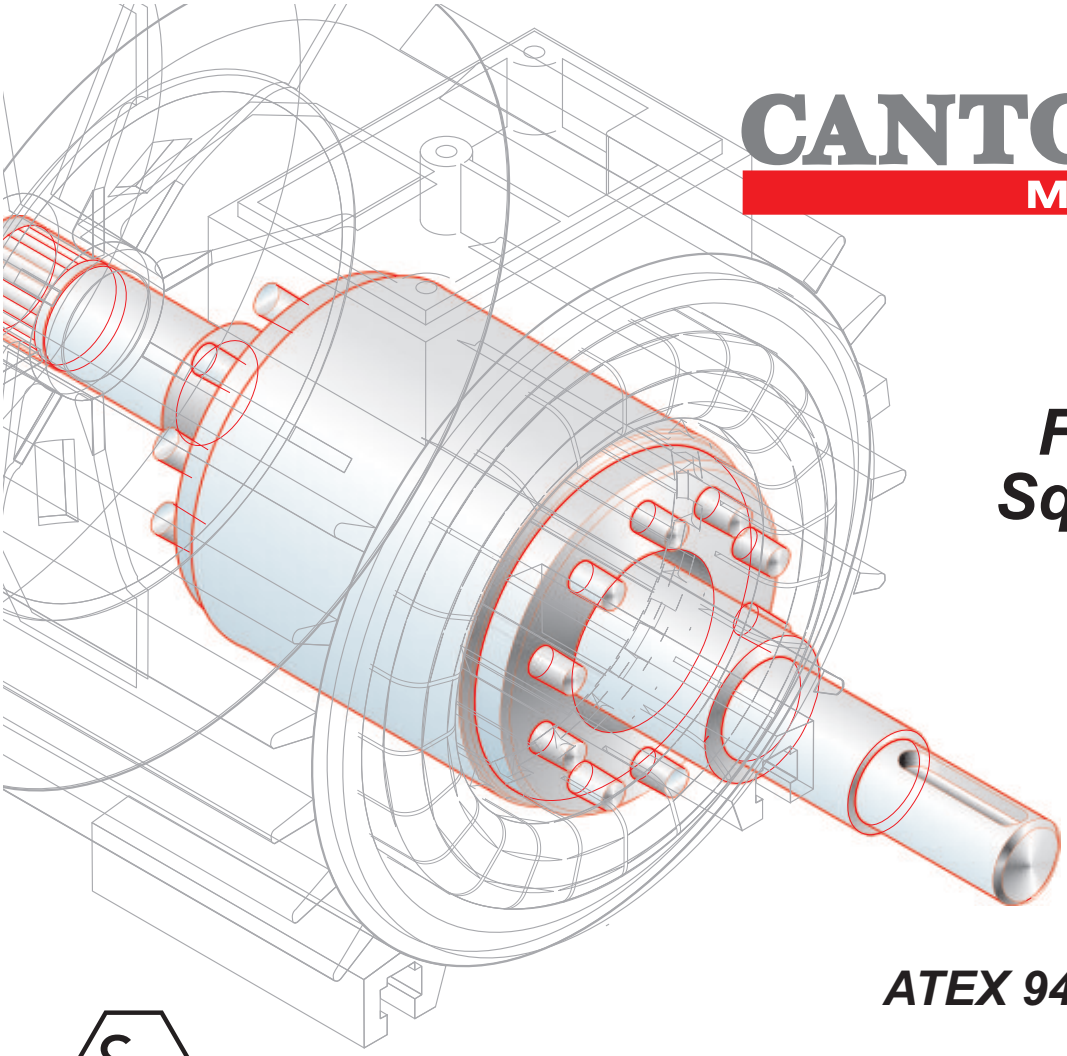
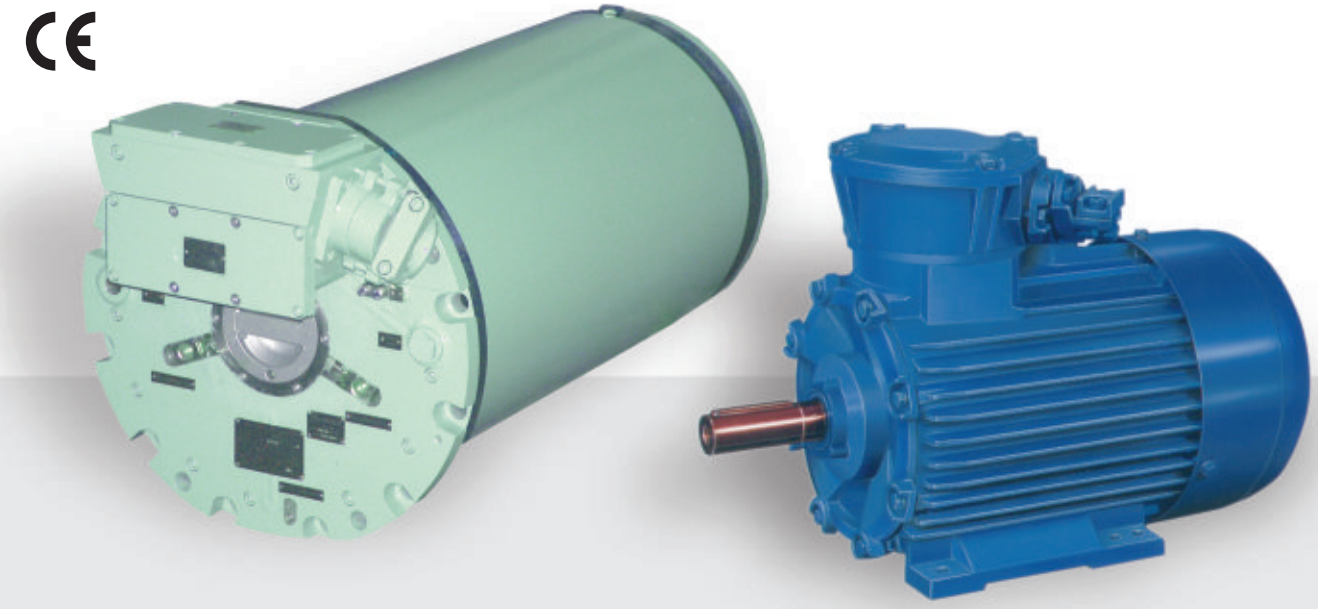
CANTONI MOTOR

ISO 9001



Flame-Proof Squirrel Cage Motors for Mining

Certified to ATEX 94/9/EC Directive



General Information

Certificates

Cantoni Motor SA
ISO 9001
KEMA
Since: September 30, 1999
Number: 99515

Besel SA
ISO 9001
DQS
Since: July 21, 1995
Number: 002887QM

Indukta SA
ISO 9001
KEMA
Since: April 1, 1993
ISO 14001
KEMA
Since: July 1, 2001
Number: 2019916

Celma SA
ISO 9001
Germanischer Lloyd
Since: June 16, 1995
Number: QS-243 HH
ISO 14001
Germanischer Lloyd
Since: November 15, 1999
Number: EM-1835 HH

Emit SA
ISO 9001
Polish Register of Ships
Since: January 23, 1997
Number: NC-034/00


KEMA
CERTIFICATE
Number: 99515
The management system of:
Cantoni Motor S.A.
Warsaw
Poland
including the implementation meets the requirements of the standard:
ISO 9001:2000
Scope:
Export sale of electric motors, co-ordination of the procurement of materials for the production of electric motors, accounting reporting for the companies of the Group.
The file that forms the basis of this certificate:
99515-QUA, 2040419-QUA
This certificate is valid until: April 1, 2009
Issued for the first time: September 30, 1999
KEMA Quality B.V.
Piotr Dąbrowski
Certification Manager
ACCREDITED BY THE DUTCH COUNCIL FOR ACCREDITATION


CERTYFIKAT
CERTIFICATE
Zakład Maszyn Elektrycznych "EMIT" S.A.
ul. Narutowicza 72
99-320 Żychlin
ISO 9001:2000
NC-034
23.01.1997
23.01.2009
PCA
Jan Jankowski
Bogdan Przybylski


KEMA
CERTIFICATE
Number: 2019916
The management system of:
Fabryka Maszyn Elektrycznych INDUKTA S.A.
Bielsko - Biała
Poland
including the implementation meets the requirements of the standard:
ISO 9001:2000
ISO 14001:2004
Scope:
Development, production, packing and dispatch of electrical three-phase motors with an output up to and including 30kW.
The file that forms the basis of this certificate:
2040373-QUA, 2040374-QUA
This certificate is valid until: November 1, 2008
for the first time: April 1, 1993 – ISO 9001
July 1, 2001 – ISO 14001


CERTIFICATE
DQS GmbH
Deutsche Gesellschaft zur Zertifizierung von Managementsystemen
hereby certifies that the company
Fabryka Silników Elektrycznych „BESEL" S.A.
ul. Elektryczna 8
49-300 Brzeg
Poland
for the scope
design, production, sale and service of single-phase and three-phase asynchronous, electric motors of low power
has implemented and maintains a
Quality Management System.
An audit, documented in a report, has verified that this quality management system fulfills the requirements of the following standard
DIN EN ISO 9001 : 2000
December 2000 edition
his certificate is valid until 2009-07-08
ertificate Registration No.: 002887 QM
rankfurt am Main 2006-07-09
MANAGING DIRECTORS


CERTIFICATE
The Germanischer Lloyd Certification GmbH, 20459 Hamburg, herewith certifies that the company
Maszyny Elektryczne CELMA S.A.
ul. 3 Maja 19, PL-43-400 Cieszyn
with the subsidiary
Odlewnia Żeliwa Cieszyn Sp. z o.o.
ul. 3 Maja 19, PL-43-400 Cieszyn
has established and maintains an Environmental Management System relevant for
Design, production and repair of electric machines, Iron castings.
Germanischer Lloyd Certification GmbH has audited the company. Evidence was provided that the Environmental Management System fulfills the requirements of the following standard
ISO 14001:2004
The validity of this certificate is subject to the company applying and maintaining its Environmental Management System in accordance with the standard indicated. This will be monitored by Germanischer Lloyd Certification GmbH.
The certificate is valid until December 11, 2008
Hamburg, December 11, 2005
Certificate No. EM-1835 HH
Germanischer Lloyd


CERTIFICATE
The Germanischer Lloyd Certification GmbH, 20459 Hamburg, herewith certifies that the company
Maszyny Elektryczne CELMA S.A.
ul. 3 Maja 19, PL-43-400 Cieszyn
with the subsidiary
Odlewnia Żeliwa Cieszyn Sp. z o.o.
ul. 3 Maja 19, PL-43-400 Cieszyn
has established and maintains a Quality Management System relevant for
Design, production and repair of electric machines, Iron castings.
Germanischer Lloyd Certification GmbH has audited the company. Evidence was provided that the Quality Management System fulfills the requirements of the following standard
DIN EN ISO 9001:2000
The validity of this certificate is subject to the company applying and maintaining its Quality Management System in accordance with the standard indicated. This will be monitored by Germanischer Lloyd Certification GmbH.
The certificate is valid until December 29, 2009
Hamburg, December 29, 2006
Certificate No. QS-243 HH
TGA-ZM-03-01-00
Germanischer Lloyd

Cantoni GROUP ®

Cantoni Motor S.A.
M. Grażyńskiego 22, 43-300 Bielsko-Biała, Poland
tel.: +48 33 813 87 00
fax: +48 33 813 87 01
motor@cantonigroup.com
www.cantonimotor.com

BESEL since 1950

indukta since 1878

ELFA since 1954

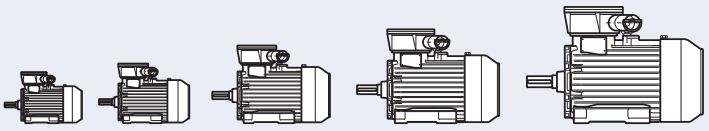
CELMA since 1920

EMIT since 1921

Range of Motors:

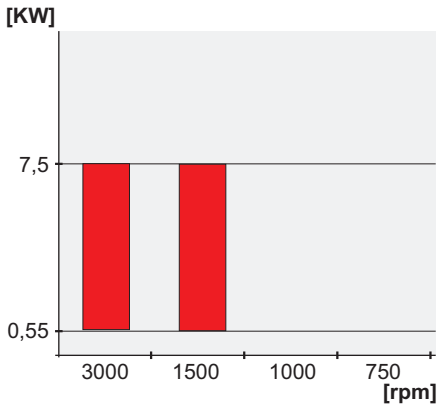
dSg

AVAILABLE FRAME SIZE



80 90 100 112 132

OUTPUT RANGE: 0,55 - 7,5 kW



The motors are designed for working in the mines endangered by the explosion of methane and coal dust,
In the spaces (zone 1 or 2) where explosive mixtures of combustible gases and steams of liquid with air can occur, reckoned as subgroups IIA and IIB,
Temperature class T1-T5.

I M2 Exd I
II 2G Exd IIB T5
KDB 05ATEX096X

DESCRIPTION

- Operating duty S1
- Rated voltage 500 V, frequency 50 Hz
- Insulation class F, degree of protection IP 54
- Ambient temperature -20°C ÷ +40°C
- Terminal box with one cable inlet
- Three current terminals, terminal unit CK1 for testing of PE wire continuity (diode)
- Unattended ball bearing
- According to PN-EN 60034-1, EN 60079-0, EN 60079-1
- The cable inlet and terminals are adapted for connection of copper cable conductors
- The device of the category M2, G2 acc. to Directive 94/9/EC (ATEX)

CUSTOMISED VERSION

- Different supply voltage to 1000V
- Frequency 60 Hz
- Degree of protection IP66
- Different ambient temperature
- With thermal protection of winding
- With thermal protection of drive end bearing
- Terminal box with two cable inlets
- Terminal unit CK2 for testing of PE wire continuity (diode and resistor)
- With rubber ring seals for other cable diameter

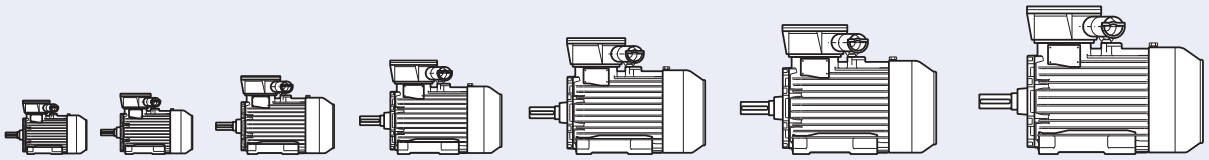
CE ISO 9001 IEC

Detailed technical data on request.

Range of Motors:

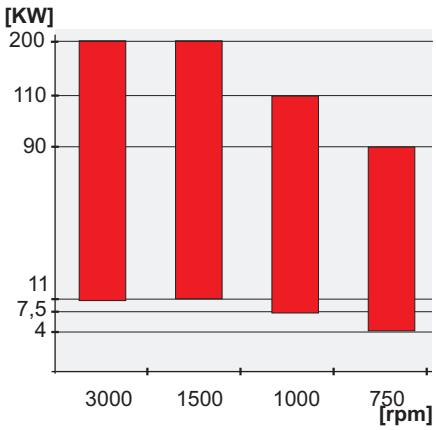
dSg-EP

AVAILABLE FRAME SIZE



160 180 200 225 250 280 315

OUTPUT RANGE: 4 - 200 kW



The motors are designed for working in the mines endangered by the explosion of methane and coal dust, in the spaces (zones 1 or 2) where explosive mixtures of combustible gases and steams of liquid with air can occur, reckoned as subgroup IIA, temperature class T1-T5.

I M2 Exd I
II 2G Exd IIA T5
KDB 04ATEX277X

DESCRIPTION

- Operating duty S1
- Rated voltage 500 V or 1000V, frequency 50 Hz
- Insulation class F, degree of protection IP 55
- Ambient temperature -20°C ÷ +40°C
- Thermal protection of winding (bimetallic)
- Thermal protection of bearings (bimetallic) frame 160 and 180 - drive end bearing, frame 200-315 both bearings
- Terminal box with one cable inlet equipped with 3 current terminals, 2-4 auxiliary terminals, terminal for PE wire, CK1 unit
- According to PN-EN 60034-1, EN 60079-0, EN 60079-1 and PN-G- 38010:1997 (for 1000V)
- The device of the category M2, G2 acc. to Directive 94/9/EC (ATEX)

CUSTOMISED VERSION

- Different supply voltage to 1140V
- Frequency 60 Hz
- Dual voltage (500/1000V)
- Degree of protection IP56
- With thermal protection of winding (PTC or Pt100)
- With thermal protection of drive end bearing (PTC or Pt100)
- With heaters in windig
- Terminal box with max 4 cable inlets, 6 current terminals , terminal unit CK2 for testing of PE wire continuity (diode and resistor), with rubber ring seals for other cable diameter
- Adapted for a frequency inverter supply (Motors marked with additional letter "f" e.g. dSg315..-EP-f)

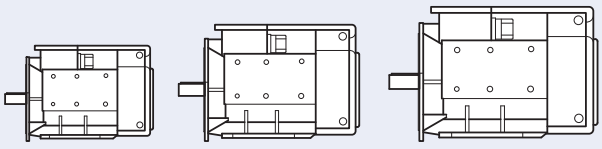
CE ISO 9001 IEC

Detailed technical data on request.

Range of Motors:

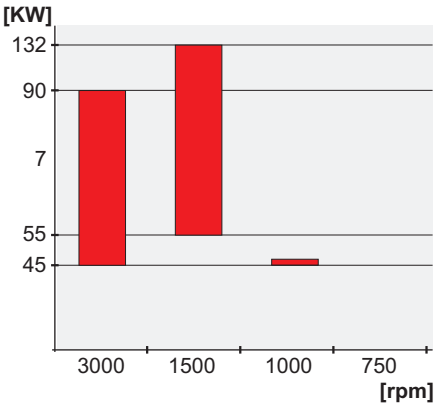
3SGf

AVAILABLE FRAME SIZE



250 280 315

OUTPUT RANGE: 45 - 132 kW



The motors are designed for working in the mines endangered by the explosion of methane and coal dust
For driving of mining devices (e.g. impactors, conveyors).

I M2 Exd I
KDB 04ATEX050X

DESCRIPTION

- Operating duty S1and S4 60% 40c/h $J_{ext}/J_M = 1$
- Rated voltage 500 V or 1000V
- Frequency 50 Hz
- Insulation class F
- Degree of protection IP 56
- Ambient temperature -20°C ÷ +40°C
- Thermal protection of winding and bearings (bimetallic or PTC)
- Terminal box with two cable inlets equipped with 3 current terminals, 4 auxiliary terminals for PE wire, CK1 unit
- The cable inlet and terminals adapted for connection of mining copper cable conductors
- According to PN-EN 60034-1, EN 60079-0, EN 60079-1 and PN-G- 38010:1997 (for 1000V)
- Motors as device from group I category M2 acc. to Directive 94/9/EC

CUSTOMISED VERSION

- Different supply voltage to 1140V
- Frequency 60 Hz
- With thermal protection with Pt100
- With heaters in windings
- Terminal unit CK2 for testing of PE wire continuity (diode and resistor)
- With rubber ring seals for other cable diameter
- Different versions according to customer's specifications

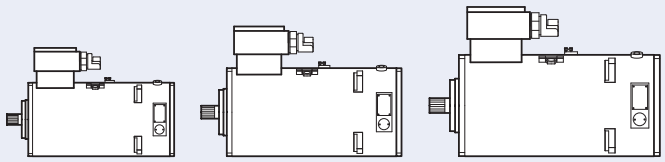
CE ISO 9001 IEC

Detailed technical data on request.

Range of Motors:

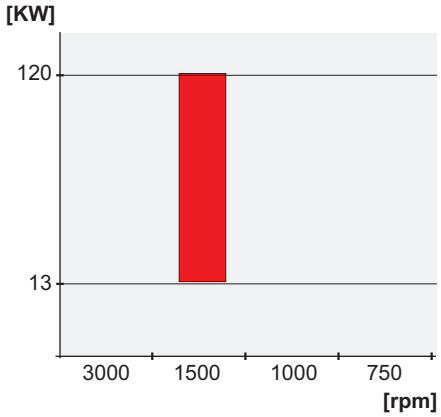
dSKKs, dSKK (Water Cooled)

AVAILABLE FRAME SIZE



160 180 200

OUTPUT RANGE: 13 - 120 kW



The motors are designed for working in the mines endangered by the explosion of methane and coal dust.
For driving of mining devices which work in undergrounds of coal mines.

Ex	I M2 EExd I	acc. to EN 50014
	I M2 Exd I	acc. to EN 60079-0

DESCRIPTION

- Operating duty S1 and S4 60% (40 c/h for dSKK200), (80 c/h for dSKK180L4)
- Rated voltage : dSKK - 500 V or 1000V, dSKKs 440V - designed to the power supply with the frequency inverter
- Frequency 50 Hz
- Insulation class F dSKK, H - dSKKs
- Degree of protection IP 66
- Terminal box with one cable inlet equipped with 3 current terminals, 8 auxiliary terminals, 2 terminals for PE wire, CK1 unit and plug of auxiliary cable inlet
- Thermal protection of winding and bearings (bimetallic or PTC)
- Pt100 in winding and drive end bearing (dSKKs)
- The cable inlet and terminals adapted for connection of mining copper cable conductors
- According to PN-EN 60034-1, PN-G- 38010:1997 (for 1000V)
- Motors as device from group I category M2 acc. to Directive 94/9/CE

CUSTOMISED VERSION

- Different supply voltage to 1140V
- Frequency 60 Hz
- With thermal protection with Pt100 (dSKK)
- With heaters in winding
- Terminal unit CK2 for testing of PE wire continuity (diode and resistor)
- With rubber ring seals for other cable diameter
- Different versions according to customer's specifications

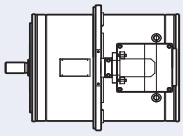
CE ISO 9001 IEC

Detailed technical data on request.

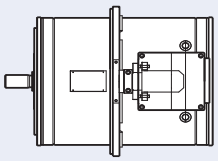
Range of Motors:

dSKKs 355 (Water Cooled)

AVAILABLE FRAME SIZE

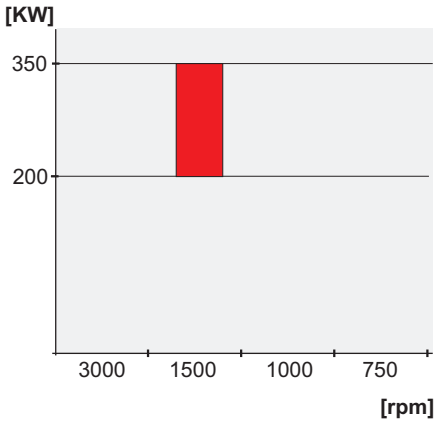


315



355

OUTPUT RANGE: 250 - 350 kW



The motors are designed for working in the mines endangered by the explosion of methane and coal dust.
The motor designed in cooperation with the firm FAMUR S.A. Katowice for driving the organ which moulds a coal- the combine harvesters in undergrounds of coal mines.

I M2 EExd I acc. to EN 50014
I M2 Exd I acc. to EN 60079-0

DESCRIPTION

- Operating duty S1
- Rated voltage : 1000V
- Frequency 50 Hz
- Insulation class H
- Degree of protection IP 66
- Terminal box with one cable inlet (for cable's diameter : 46-49 mm) equipped in 3 current terminals, 12 auxiliary terminals, 2 terminals for PE wire, CK1 unit and plug of auxiliary cable inlet
- Thermal protection of winding and bearings (bimetallic or PTC)
- Pt100 in winding and both bearing
- The cable inlet and terminals adapted for connection of mining copper cable conductors
- According to PN-EN 60034-1, PN-G- 38010:1997 (for 1000V) and EN 50014, EN 50018 for I group dSKK 355-4z, dSKKs 355-L4z, EN 60079-0 i EN 60079-1 for I group dSKKs 355-4
- Motors as device from group I category M2 acc. to Directive 94/9/EC

CUSTOMISED VERSION

- Different supply voltage to 1140V
- Frequency 60 Hz
- Terminal unit CK2 for testing of PE wire continuity (diode and resistor)
- Terminal box without CK unit
- With rubber ring seals for other cable diameter
- Different versions per customer's specifications

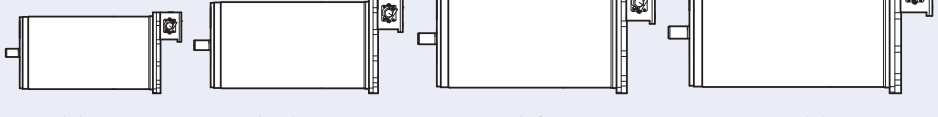
CE ISO 9001 IEC

Detailed technical data on request.

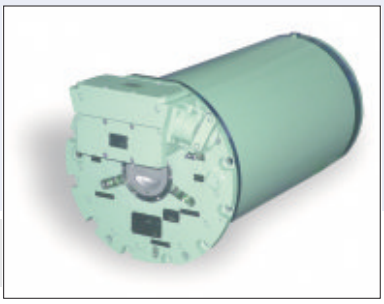
Range of Motors:

dSKgw (Water Cooled)

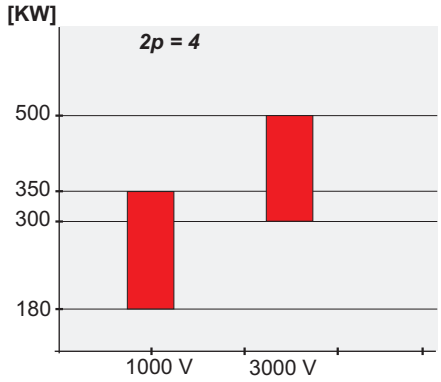
AVAILABLE FRAME SIZE



225 250 315 500



OUTPUT RANGE: 180 - 500 kW



dSKgw motors are used for driving the mining organ of combined-cutter-loaders and conveyors under extremely tough conditions in underground headings with class “a”, “b”, “c” of a methane explosion danger and class “A” and “B” of a coal dust explosion danger. The motors of this range are three-phase squirrel cage induction motors in the explosion-proof execution, Exd I confirmed by ATEX certificate issued by KD “BARBARA”.
Depending on clients’ requirements dSKgw motors can be adjusted to 1000V, 1140V and 3300V which gives the opportunity to use them both in Polish and in foreign mines.
The motors are cooled with water flowing through ducts in the frame and end shields. Water inlets are placed on the frame next to the terminal box. The water supply is realized by the special connection which consists of armoured hose screwed into the threaded socket and then mounted with a special bush.

Ex I M2 Exd I

acc. to EN 60079-1

The motor is equipped with the mechanical overload protection - a safety shaft placed in shaft's hole and which has a contraction and additional notch. Functioning of protection consists in twisting the shaft in notch area that stops the driven machine without damaging the motor.

DESCRIPTION

- Exd I according to EN 60079-0, EN 60079-1 and ATEX 100A Directive
- Degree of protection IP55 according to PN-EN 60034-5, insulation class H
- Water cooling, cooling system ICW37 according to PN-EN 60034-6
- Long-lasting anti-corrosive protection - corrosive agression class C acc. to PN-71/H-04651
- Durable bearings
- Continous duty S1 and intermittent duty S4-60% (40c/h; J_{ext}/J_m=1)
- Declutching device with safety shaft
- Durable welded frame with double coat
- Low noise and vibrations

DUTY CONDITIONS

- Atmospheric pressure 800 -1070 hPa, ambient temperature 0-40°C
- Relative humidity at 35°C 97-100%
- Altitude <1000m, dustiness <1000mg/m^3
- Operation in areas with class “a”, “b” and “c” of methane explosion danger and class “A” and “B”
- Corrosive aggression class C according to PN-71/H-04651
- Operating voltage (0,95-1,05) U_N
- Allowable inclination of shaft from horizontal position 30°
- Parameters of cooling water (on inlet): max. temp. 30°C, max. stat. pressure 3MPa, flow 15dm^3/min

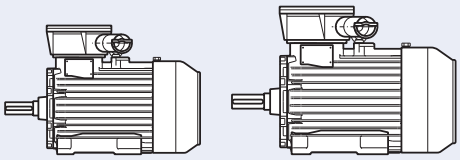
CE ISO 9001 IEC

Detailed technical data on request.

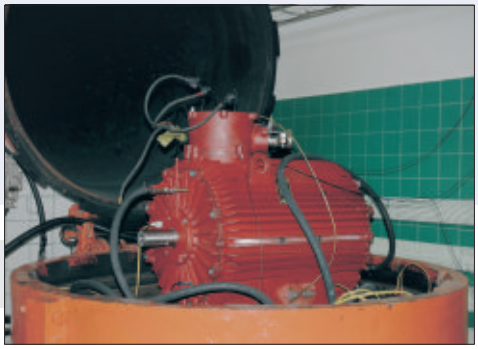
Range of Motors:

ExSg, ExSgm

AVAILABLE FRAME SIZE

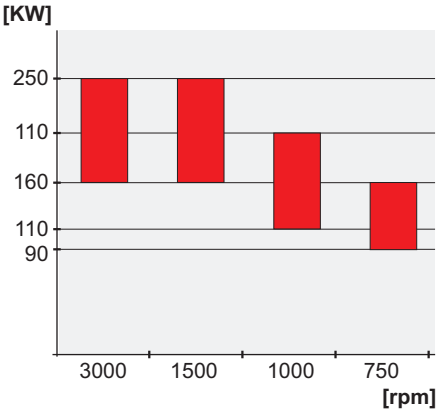


315 355



Motor ExSgm 315 M2C 260kW, 1000V, 3000 rpm tested in KD "BARBARA"

OUTPUT RANGE: 90 - 250 kW



Flameproof motors are used in mines mainly for driving auxiliary machines such as pumps, fans and conveyors. These motors belong to the group I category M2 and group II category 2G according to ATEX directive.
Within this group we offer squirrel cage induction motors for both high and low voltage, the following series: ExSg/ExSgm, ExSh, ExSf (only group II). All the motors are supplied with ATEX certificate issued by KD "Barbara".

ExSg series motors comply with the requirements of ATEX Directive for machines in an explosion-proof execution and belong to the group I M2 and II 2G, the temperature class T4 or lower according to PN-EN 50014:2004, with the flameproof cover "d" according to PN-EN 50018:2002 and are suitable for work in methane mines and other zones and areas where explosive mixtures of flammable gases, steams or vapors with air (group IIB) can occur.

I M2 EExd I
II 2G EExd IIB T4

DESCRIPTION

- Flameproof enclosure - „d" according to PN-EN 50018:2002
- Foot mounted , with cylindrical shaft end - IM1001 according to PN-EN 60034-7:1998
- Degree of protection - IP 54 according PN-EN 60034-5:2004
- Degree of protection of terminal box - IP55
- Cooling system - IC 411 according to PN-EN 60034-6:1999
- Motors meet requirements of PN-EN 60034-1

CE ISO 9001 IEC

Detailed technical data on request.

Range of Motors:

dSKgwp (Water Cooled)

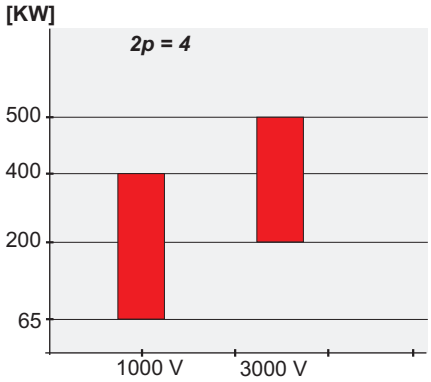
AVAILABLE FRAME SIZE

315

355

500

OUTPUT RANGE: 65 - 500 kW



I M2 Exd I

Acc. to PN-EN 60079-1

dSKgwp series motors are used for driving mining machines and devices especially belt and push-plate conveyors in extremely tough conditions in underground headings with class “a”, “b”, “c” of methane explosion danger and class “A” and “B” of coal dust explosion danger.
dSKgwp series motors are three phase squirrel cage induction motors in flanged execution for horizontal operation mechanical execution Im3001 (B5) and IM4001 (B10). Motors are available in single speed and two speed execution.
Motors are executed as explosion proof with flameproof cover “d” class **I M2 Exd I** acc. to PN-EN 60079-1.
Depending on clients’ requirements dSKgw motors can be adjusted to 1000V, 1140V and 3300V which gives the opportunity to use them both in Polish and in foreign mines.
The motors are cooled with water flowing through ducts in the frame and end shields.
Winding is made of copper wire with class H insulation materials.
Rotor has single or double cage construction with brass and copper bars.

DESCRIPTION

- Exd I according to EN 60079-0, EN 60079-1 and ATEX 100A Directive
- Degree of protection IP55 according to PN-EN 60034-5, insulation class H
- Water cooling, cooling system ICW37 according to PN-EN 60034-6
- Long-lasting anti-corrosive protection - corrosive agression class C acc. to PN-71/H-04651
- Durable bearings
- Single speed motors continous duty S1 and intermittent duty S4-60% (40c/h; $J_{ext}/J_m=1$)
- Two speed motors continous duty S1 and intermittent duty S4-60% (75c/h; $J_{ext}/J_M=0,6$)
- Declutching device with safety shaft
- Durable welded frame with double coat
- Low noise and vibrations

DUTY CONDITIONS

- Atmospheric pressure 800 -1070 hPa, ambient temperature 0-40°C
- Relative humidity at 35°C 97-100%
- Altitude <1000m, dustiness <1000mg/m^3
- Operation in areas with class “a”, “b” and “c” of methane explosion danger and class “A” and “B”
- Corrosive aggression class C according to PN-71/H-04651
- Operating voltage (0,95-1,05) U_N
- Allowable inclination of shaft from horizontal position 30°
- Parameters of cooling water (on inlet): max. temp. 30°C, max. stat. pressure 3MPa, flow 15dm^3/min

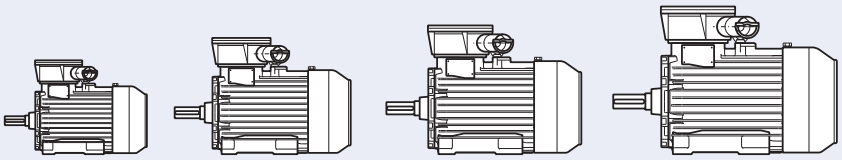
CE ISO 9001 IEC

Detailed technical data on request.

Range of Motors:

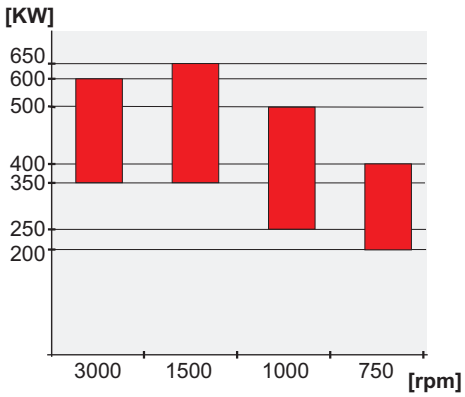
ExSh...s

AVAILABLE FRAME SIZE



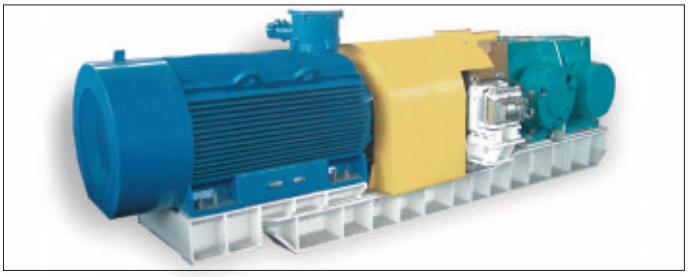
355 400 450 500

OUTPUT RANGE: 200 - 650 kW



ExSh series motors as explosion-proof devices from the group I category M2 and the group II category 2G according to PN-EN 50014:2004 with the flameproof cover „d" in the temperature class T4 or lower according to PN-EN 50018:2002 are suitable for the operation in methane mines and other areas where explosive mixtures of flammable gases, steams or vapors with air (group IIB) can occur.

I M2 EExd I
II 2G EExd IIB T4



Driving unit for the conveyor BOGDA-1200A made by Pioma Piotrków Trybunalski. This unit consists of the transmission QHRG-3, hydrodynamic couple, shield brake and electric motor ExSh 355 made by EMIT S.A.

DESCRIPTION

- Flameproof protection „d" according to PN-EN 50018:2002
- Foot mounted horizontally with a cylindrical shaft end - IM1001 according to PN-EN 60034-7:1998
- Degree of protection - IP54 according to PN-EN 60034-5:2004
- Degree of protection of terminal box - IP55
- Cooling system - IC 411 according to PN-EN 60034-6:1999
- Motors meet requirements of PN-EN 60034-1

DUTY CONDITIONS

- Ambient temperature: from -20°C to +40°C, altitude above sea level: up to 1000m
- Relative humidity at 35C: to 95%
- Dustiness of cooling air not bigger then 10mg/m^3
- Pollutants of cooling air cannot be chemically aggressive (e.g. fumes of acids or lye)
- Continuous duty S1
- Power supply U_N ±5%,f_N ±2%
- Direct start-up

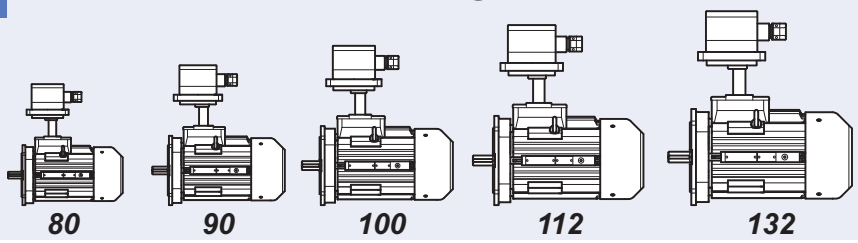
CE ISO 9001 IEC

Detailed technical data on request.

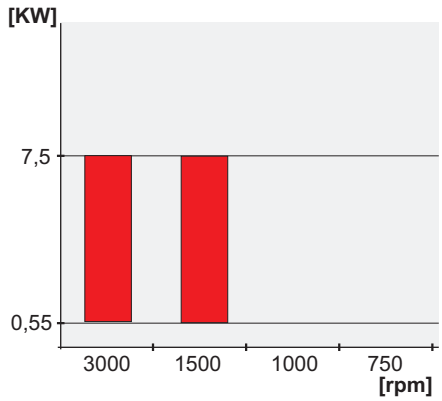
Range of Motors:

dSOK(1) (for Axial Fans)

AVAILABLE FRAME SIZE



OUTPUT RANGE: 0,55 - 7,5 kW



The motors are designed for working in the mines endangered by the explosion of methane and coal dust,for driving the devices (pipes vents) which work in undergrounds of coal mines.

Ex I M2 EExd I acc. to EN 50014

DESCRIPTION

- Operating duty S1
- Rated voltage: 500V, frequency 50 Hz
- Insulation class F, degree of protection IP 54
- Terminal box with one cable inlet (connected with the housing with distance tube and special flange) equipped in 3 current terminals, terminal for PE wire, CK1 unit
- Ambient temperature -20°C ÷ +40°C
- The cable inlet and terminals adapted for connection of mining copper cable conductors
- According to PN-EN 60034-1, PN-G- 38010:1997 (for 1000V) and EN 50014, EN 50018 for I group
- Motors as device from group I category M2 acc. to Directive 94/9/EC

CUSTOMISED VERSION

- Different supply voltage to 1000V
- Frequency 60 Hz
- Degree of protection IP66
- With thermal protection of winding
- With thermal protection of drive end bearing
- Terminal box with two cable inlets
- Terminal unit CK2 for testing of PE wire continuity (diode and resistor)
- With rubber ring seals for other cable diameter
- Different versions according to customer's specifications

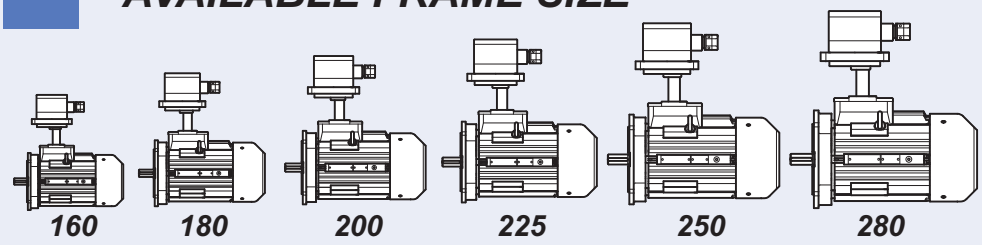
CE ISO 9001 IEC

Detailed technical data on request.

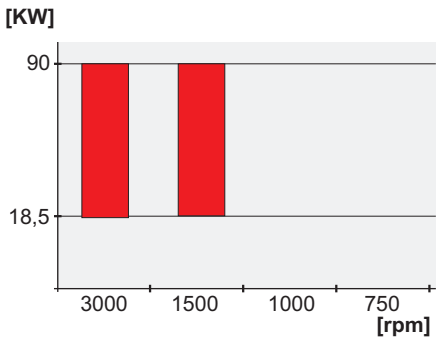
Range of Motors:

dSOKg-E *(for Axial Fans)*

AVAILABLE FRAME SIZE



OUTPUT RANGE: 18,5 - 90kW



The motors are designed for working in the mines endangered by the explosion of methane and coal dust. For driving the devices (pipes vents) working in undergrounds of coal mines.

Ex	I M2 EExd I	acc. to EN 50014
	I M2 Exd I	acc. to EN 60079-0

DESCRIPTION

- Operating duty S1
- Rated voltage : 500V or 1000V
- Frequency 50 Hz
- Insulation class F
- Degree of protection IP 56
- Thermal protection of winding (bimetallic)
- Thermal protection of bearings (bimetallic) : frame 160 and 180 - drive end bearing, frame 200-225 both bearings
- Terminal box with one cable inlet (connected with the housing with distance tube and special flange) equipped with 3 current terminals, 3 or 4 auxiliary terminals , terminal for PE wire, CK1 unit
- Ambient temperature -20°C ÷ +40°C
- The cable inlet and terminals adapted for connection of mining copper cable conductors
- According to PN-EN 60034-1, PN-G- 38010:1997 (for 1000V) and EN 50014, EN 50018 for I group Motors as device from group I category M2 acc. to Directive 94/9/EC

CUSTOMISED VERSION

- Different supply voltage to 1140V
- Frequency 60 Hz
- With thermal protection of winding and bearings (PTC)
- With thermal protection of drive end bearing (frame 160 and 180)
- With Pt100 in winding or bearings
- With heaters in winding (frame 200 and 225)
- Terminal box with max 4 cable inlets, 6 current terminals and plug
- Terminal unit CK2 for testing of PE wire continuity (diode and resistor)
- With rubber ring seals for other cable diameter
- Different versions according to customer's specifications

CE ISO 9001 IEC

Detailed technical data on request.

notes

09/FPM-EN/2010