

Technical Information



LOW VOLTAGE ELECTRICAL MACHINES

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LOW VOLTAGE ELECTRICAL MACHINES

ENCREASED EFFICIENCY MOTORS class IE2 according to IEC 60034-30

Standard: IEC 60034-1
Rotor type: cage
Frame Size: 200 - 355
Voltage / frequency: 230 - 690 V / 50 Hz, 60Hz
Output: 18,5 - 355 kW
Number of poles: 2 - 6
Insulation class: F / B
Mechanical protection: IP 55
Cooling: IC 411
Mounting arr.: IM B3, B5, V1
Fixing dimensions: IEC 60072
Designation: ZKE

ENCREASED EFFICIENCY MOTORS

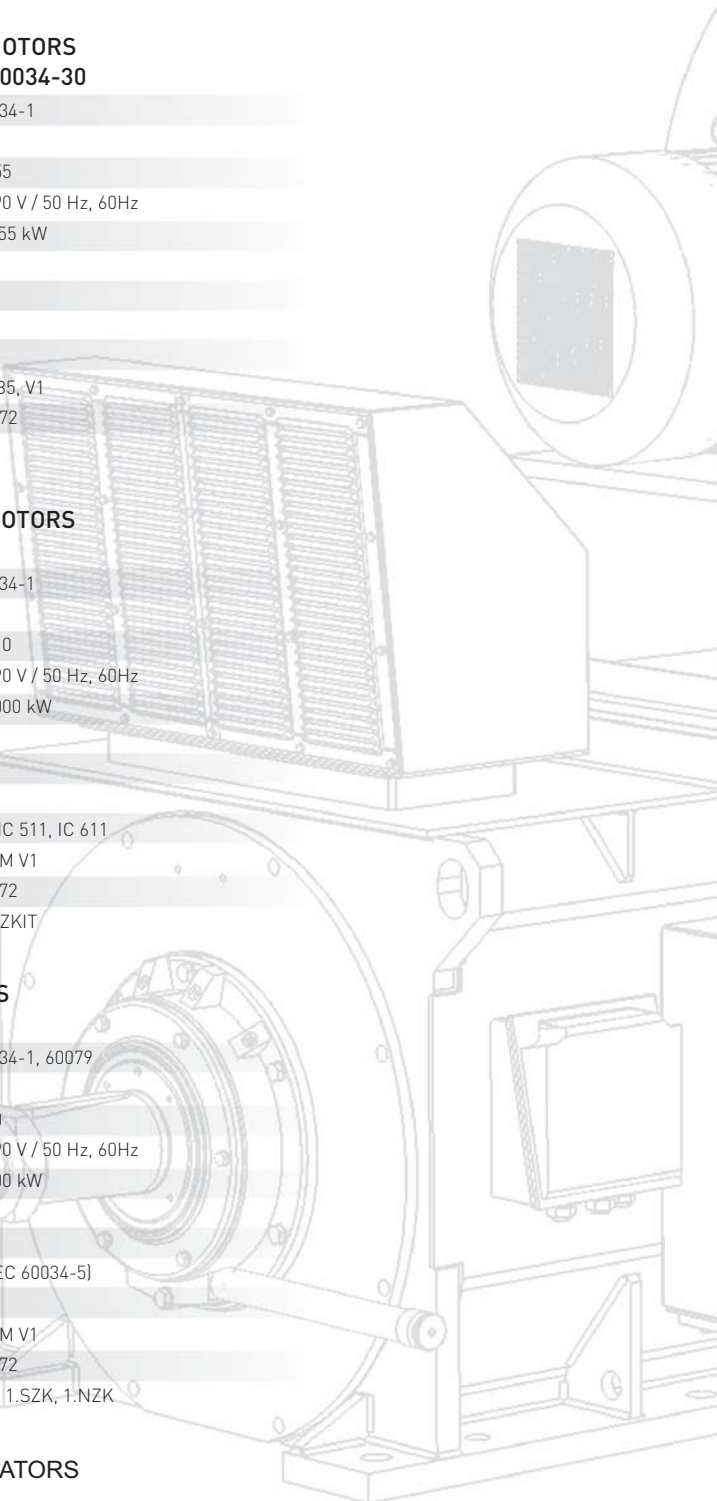
Standard: IEC 60034-1
Rotor type: cage
Frame Size: 355 - 710
Voltage / frequency: 230 - 690 V / 50 Hz, 60Hz
Output: 400 - 2000 kW
Number of poles: 2 - 8
Insulation class: F
Mechanical protection: IP 55
Cooling: IC 411, IC 511, IC 611
Mounting arr.: IM B3, IM V1
Fixing dimensions: IEC 60072
Designation: ZKIE, 2.ZKIT

EXPLOSION PROOF MOTORS Exd, Exe, Exn

Standard: IEC 60034-1, 60079
Rotor type: cage
Frame Size: 200-500
Voltage / frequency: 230 - 690 V / 50 Hz, 60Hz
Output: 15 - 1000 kW
Number of poles: 2 - 8
Insulation class: F
Mechanical protection: IP 55 (IEC 60034-5)
Cooling: IC 411
Mounting arr.: IM B3, IM V1
Fixing dimensions: IEC 60072
Designation: St.1ZK, 1.SZK, 1.NZK

ASYNCHRONOUS GENERATORS

Standard: IEC 60034, 60072, 60085, 60721
Rotor type: cage
Frame Size: 280 - 560
Voltage / frequency: 400, ..., 690 V / 50 Hz, 60Hz
Output: 132 - 700 kW
Number of poles: 2 - 20
Insulation class: F
Mechanical protection: IP 23, IP 55
Cooling: IC01, IC 411
Mounting arr.: IM B3, V1
Fixing dimensions: IEC 60072
Designation: 1(2)OK(I)...G, 1(2)ZK(I)...G



LOW VOLTAGE ELECTRICAL MACHINES

WOUND-ROTOR MOTORS crane // general purpose

Standard: IEC 60034-1
Rotor type: wound-rotor (slip-ring)
Frame Size: 160 - 400 // 315 - 560
Voltage / frequency: 230 - 690 V / 50 Hz, 60Hz
Output: 8.5 - 380 // 132 - 1100 kW
Number of poles: 2 - 10
Insulation class: F
Mechanical protection: IP 55
Cooling: IC 411 // IC 411, IC 511
Mounting arr.: IM B3, V1
Fixing dimensions: IEC 60072, SEB 841, DIN 42681 // IEC 60072
Designation: [2]ZPD // 2.ZPDI



STANDARD MARINE MOTORS

Standard: IEC 60034-1
Rotor type: cage
Frame Size: 200 - 315
Voltage / frequency: 230 - 690 V / 50 Hz, 60Hz
Output: 15 - 200 kW
Number of poles: 2 - 8
Insulation class: F
Mechanical protection: IP 55
Cooling: IC 411
Mounting arr.: IM B3, V1
Fixing dimensions: IEC 60072
Designation: 1.BZK



SPECIAL MARINE MOTORS

Standard: IEC 60034-1
Rotor type: cage
Frame Size: 200 - 315
Voltage / frequency: 230 - 690 V / 50 Hz, 60Hz
Output: 55 - 1720 kW, 2p=4, S2-30 min.
Number of poles: 4 - 6
Insulation class: F
Mechanical protection: IP 23
Cooling: IC 01
Mounting arr.: IM B3, V1
Fixing dimensions: IEC 60072
Designation: BOK, 2.BOK, BPOK, 2.BPOK, 2.BOKIT, 2.BPOKIT



SPECIAL MARINE MOTORS wound-rotor motors

Standard: IEC 60034-1
Rotor type: wound-rotor (slip-ring)
Frame Size: 225 - 400
Voltage / frequency: 230 - 690 V / 50 Hz, 60Hz
Output: 55 - 1000 kW, 2p=4+H65536, S2-30 min.
Number of poles: 4 - 6
Insulation class: F
Mechanical protection: IP 23
Cooling: IC 01
Mounting arr.: IM B3, V1
Fixing dimensions: IEC 60072
Designation: BOP, 2.BOP, BPOP, 2.BOPI





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