

I Range Induction Motor

An icon of Quartzelec's induction motor legacy, the I range of motors. Developed after many years of OEM experience to provide the necessary flexibility in design required to match the unique constraints of individual applications or environments.

Modular design for enclosures, bearings and terminations permit tailored solutions to the latest IEC-60034, NEMA MG1, ANSI specifications and many other industry standards.

| Motor Type: | I – Induction, K – Single Cage, |
|----------------|------------------------------------|
| - | KK – Double Cage, |
| | M – Wound Rotor, V – Vertical |
| Frame size / | 500, 560, 630, 710, 145, 160, 183, |
| Shaft Heights: | 205, 225, 254 |
| Pole Speeds: | 2 to 24+ pole |
| Output Range: | circa 750kW – 21.000kW + |

Design & Operational Features

Up to 13.8kV, 50 or 60 Hz supply Horizontal (IM7211) and Vertical (IM4011) mountings to IEC 60034-7 Ingress protection to IP55 level to IEC 60034-5 Versatile enclosures: CACA (IC0161), CACW (IC8A1W7), NEMA WP II (IC0A1), ODP (IC0A1) to IEC 60034-6 High efficiency – typically 94.0 to 97.0% Vibration for all new machines manufactured to: BS EN IEC 60034-14:2018 Table 1 Grade A (rigid Mount) 2.3mm/sec(rms) Option for Grade B (rigid Mount) 1.5mm/sec(rms)

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Design & Operational Features (cont.)

- All new machines balanced to BS EN 21940:11 G2.5 maximum imbalance
- Noise levels typically in line with BS IEC 60034-9 noise limits or lower
- Low starting current designs can be tailored to suit specific supply system limitations where required

Standards & Specification

- Compliant with the latest requirements of IEC 60034-1
- Compliance with standards such as NEMA-MG 1, API 541 and ANSI standards can be offered, and other major user specifications can be met on request

Design Detail

- Maximum continuous rating corresponding to duty type S1 to IEC 60034-1
- Class F, VPI insulation system with temperature rise limited to Class B/80K in a maximum 40 deg C ambient temperature
- Modern I Range motors are designed to the latest hazardous area certification requirements as required
- Split sleeve and rolling element bearings suitable for in-situ service
- Original dimensions assembled to: BS 4999 pt 10





Compatibility

Can be fitted with the following Quartzelec approved and certified Terminal Boxes:

- Phase Segregated
- EUROMOLD (Triangular // In Line)
- BEAMA/CEGB Phase Insulated
- Steel Weatherproof

Also compatible with the following Quartzteq LIFEVIEW[®] Condition Monitoring Equipment:

- LIFEVIEW PDA II Online Condition. Monitoring System
- QRC40 & QRC85 Partial Discharge Couplers

Key Contact Information

To request a quotation or further information please contact

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