series

ICS







| ENVIRONMENTAL SPECIFICATIONS |  |  |
|------------------------------|--|--|
| Shock:                       | 100 g, 6 ms (acc. to MIL STD 202F)     |  |
| Vibrations:                  | 10 g, 5-2000 Hz (acc. to MIL STD 202F) |  |
| Operating temperature range: | -20°C +70°C (-4°F +158°F)              |  |
| Storage temperature range:   | -20°C +80°C (-4°F +176°F)              |  |
|                              | (98% R.H.without condensation)         |  |
| Protection:                  | IP65                                   |  |

| MECHANICAL SPECIFICATIONS         |   |  |
|-----------------------------------|---|--|
| Dimensions:                       | see drawing                                 |  |
| Shaft:                            | Ø 12 mm                                     |  |
| Shaft loading (axial and radial): | 100 N max.                                  |  |
| Shaft rotational speed:           | 6000 rpm max.                               |  |
| Starting torque at 20°C:          | ≤ 3 Ncm (typical)                           |  |
| Moment of inertia:                | ~250 gcm²                                   |  |
| Bearings life:                    | 400x10 <sup>6</sup> rev. min.               |  |
|                                   | (10° rev. min. with 20 N shaft loading max) |  |
| Weight:                           | ~ 1,2 kg (42,3 oz)                          |  |

| ELECTRICAL SPECIFICATIONS                   |   |  |
|---|---|--|
| STD pulse rate<br>(other PPR upon request): | 2-4-5-6-10-12-15-16-18-20-24-25-30-35-36-39<br>40-45-50-60-64-70-80-90-100-120-122-125-127<br>142-150-180-200-216-236-240-250-254-256<br>267-270-300-314-360-375-400-410-433-435<br>471-500-512-600-625-628-635-720-750-784<br>800-875-900-946-1000-1024-1068 |  |
| Pulses/mm:                                  | to be result of pinion and rack ratio   |  |
| Power supply:                               | +5V±5%, +10V +30V,+5V +30V  |  |
| Output circuits:                            | NPN o.c., PNP o.c., Push-Pull, Line Driver, PP/LD   |  |
| Output current (per channel):               | 40 mA max.  |  |
| Output frequency:                           | 60 kHz max.   |  |
| Input current:                              | 70 mA max.  |  |
| Protection:                                 | against inversion of polarity (except +5V version) outputs are protected against short-circuit (except Line Driver version)   |  |
| Optoelectronic life:                        | 100.000 hrs min.  |  |

|               | MATERIALS                     |
|---------------|-------------------------------|
| Housing:      | non corroding                 |
| Bearings:     | ABEC 5                        |
| Shaft:        | stainless steel, non-magnetic |
| Light source: | GaAl diode                    |

|           | ACCESSORIES                 |
|-----------|-----------------------------|
| E7MLS:    | 7 pin MIL mating connector  |
| E10MLS:   | 10 pin MIL mating connector |
| LKM-1225: | Z40 pinion                  |
| LKM-1224: | M0,79 rack                  |



