



Variable Frequency AC Drives
Sensorless Vector Control

CE

 **KOLORROL**[®]



KOLORROL AC drivers deliver high performance motor control and save energy. They enable cost-effective production, reduce greenhouse effects and play a role in meeting emission targets.

With a sharp customer focus, we ensure best possible services to all our customers and partners.

We have pursued excellence in all our products. Excellence in quality and technology.

Our way of working is based on internal entrepreneurship: we take the initiative, we have the courage, and we take the responsibility.

FEATURES

- Sensorless vector control
- Overcooled design results in lower heatsink temperature
- Easy multi motor synchronization
- In built brake chopper up to 15KW
- Detachable keypad for easy panel mounting
- 8 muti step speeds and times with cyclic operation
- 11 digital inputs, 3 opto isolated outputs, 1 output relay
- MODBUS(RTU and ASCII)
- Frequency Control Range: 0.1-600Hz
- PID
- Power loss ride through
- 150% overload for 1min
- Basic standard : EN 61800-5-1, EN 61800-5-2
- EMC standard : EN 61800-3
- Approval : CE



CONTROL FEATURES

Control System	: V/F, V/F closed loop, Sensorless vector, Closed loop sensorless vector
Frequency Control Range	: 0.1Hz to 600Hz
Frequency Resolution	: 0.01Hz
Carrier Frequency	: 3KHz to 15KHz
Acceleration Time	: 0.1 s to 6000 s
Deceleration Time	: 0.1 s to 6000 s
Stopping Method	: Ramp to stop or Coast to stop
Skip Frequency Band	: Three programmable skip frequency bands
Braking	: DC Injection braking , Dynamic braking
Adjustable Current Limit	: 30% to 200% of rated current
Ambient Temperature	: 0-40°C
Overload Capability	: 150% overload for 1 minute
PID	: PID, inverse PID, PID+reference, inverse PID+reference
Multi Speed Control Function	: 8 selectable speeds and time intervals with cyclic mode option
Frequency Reference Select	: Keypad [Up , Down] -10 to +10VDC 0 to 10VDC 4-20mA Serial comm Synch mode (used in multi motor synchronization)
Fault Record	: Last 3 faults

PROTECTIONS

- Over current
- Over voltage
- Over temperature of inverter
- Current limit
- Output short circuit
- Under voltage

OPTIONAL FEATURES

- Input Line filters
- OutPut dv / dt filter
- EMI filter
- Encoder feedback
- Serial communication: RS485 MODBUS (ASCII and RTU)
- Remote station with start-stop-push button and Potentiometer

APPLICATIONS

- Plastic and Packaging industries
- Textile, Printing and Dyeing, Chemical fiber industries
- HVAC and Building automation
- Chemical , Pharmaceutical and Fertilizer industries
- Machine tools , Wire drawing , Air compressor , Ceramic industries
- Conveyors , Warehouse systems
- Pumps , Fans , Extruder , Water supply , Food machinery , Blow moulding machinery
- Winder – unwinder applications
- Cranes , Hoists and Elevators
- Injection moulding machines

Voltage Class 460V

MODEL	KW / HP	INPUT Amp	OUTPUT Amp	H x W x D mm
KLX 100/KLE 100	0.75/1.0	1.5	1.6	175 x 125 x 140
KLX 200/KLE 200	1.5/2.0	3.0	3.2	175 x 125 x 140
KLX 300/KLE 300	2.2/3.0	4.7	4.9	175 x 125 x 140
KLX 500/KLE 500	3.7/5.0	8.0	8.5	175 x 125 x 140
KLX 750/KLE 750	5.5/7.5	11.0	11.6	300 x 150 x 180
KLX 1000/KLE 1000	7.5/10	15.2	16.0	300 x 150 x 180
KLX 1500/KLE 1500	15/11	21.8	23.0	300 x 150 x 180
KLX 2000/KLE 2000	15/20	30.4	32.0	380 x 263 x 245
KLX 2500/KLE 2500	18/22	36.1	38.0	380 x 263 x 245
KLX 3000/KLE 3000	22/30	41.8	44.0	595 x 243 x 283
KLX 4000/KLE 4000	30/40	57.0	60.0	595 x 243 x 283
KLX 5000/KLE 5000	37/50	69.3	73.0	706 x 278 x 332
KLX 6000/KLE 6000	45/60	86.4	91.0	706 x 278 x 332
KLX 7500/KLE 7500	55/75	104	110	785 x 270 x 421
KLX 10000/KLE 10000	75/100	142.5	150	785 x 270 x 421

For drives above 75KW / 100HP please visit: www.kolorrol.com



A product by **KOLORROL ENERGY PVT. LTD.**

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An: ISO 9001:2008 COMPANY

MADE IN INDIA