ELTE
High speed precision spindles

DATASHEET

THREE-PHASE E.S. INTEGRATED INVERTER PE

Inverter PC board must be fed at 230 V ± 15% - 50/60 Hz o 400 V ± 15% - 50/60Hz directly on fastons labelled with letters "L1" "L2" "L3" and connected to the earth. Just to avoid current over absorption speed drive varation comes from voltage/frequency of the motor itself. Speed control is made by an acceleration/decelleration check-up to avoid sudden varations may cause problems. Possible and sudden breaks of voltage/frequency are registred by the monitoring circuit to guarantee motor stability. Stop function ramping is guided during feeding interruption but speed is reset when feeding is on .Is possible to insert a resistance for brake the motor, for used this option insert resistance between BRAKE pin.

INPUT SEGNAL

the inverter's controles are in the J7 connecting terminal .Following you have all description:

- +10V reference output
- Analogue input, voltage range 0-10Vdc
- 0 Vdc ground I/0
- Digital input (voltage max 5V current 1mA ≤ I ≤ 3,5 mA)
- Motor's direction 89forwand/reverse)
- Start to run motor
- Fault reset
- Digital input (voltage max 5V current 1mA ≤ I ≤ 3,5 mA)

OUTPUT SIGNAL

The inverter's controles are in the J2 connecting terminal .Following you have all description:

- Relay output fault allarm
- Relay output overtemperature
- Relay output at speed
- Relay output motor i stop position

TYPE	VOLTAGE [Volt]	FREQUENCY [Hz]	RPM	DELIVERED POWER [Kw]	ABSORPTION [Amp]	Cos j	WEIGHT [Kg]
PE3 9/2 IV	220 o 380	50	3000	0,20	1,60 / 1,00	0,70	5,70
PE3 9/2 IV	220 o 380	100	6000	0,45	2,60 / 1,50	0,74	5,70
PE3 9/2 IV	220 o 380	200	12000	0,75	4,30 / 2,50	0,74	5,70
PE3 9/2 IV	220 o 380	300	18000	1,00	5,90 / 3,50	0,74	5,70
PE3 12/2 IV	220 o 380	50	3000	0,30	1,80 / 1,10	0,69	7,40
PE3 12/2 IV	220 o 380	100	6000	0,75	3,60 / 2,10	0,74	7,40
PE3 12/2 IV	220 o 380	200	12000	1,50	6,80 / 3,90	0,78	7,40
PE3 12/2 IV	220 o 380	300	18000	2,00	9,70 / 5,60	0,79	7,40
PE3 14/2 IV	220 o 380	50	3000	0,45	3,00 / 1,70	0,68	8,40
PE3 14/2 IV	220 o 380	100	6000	0,95	4,70 / 2,70	0,72	8,40
PE3 14/2 IV	220 o 380	200	12000	1,80	8,90 / 5,10	0,69	8,40
PE3 14/2 IV	220 o 380	300	18000	2,20	10,80 / 6,30	0,72	8,40
PE4 10/2 IV	220 o 380	50	3000	0,65	3,60 / 2,10	0,70	9,90
PE4 10/2 IV	220 o 380	100	6000	1,10	5,30 / 3,00	0,75	9,90
PE4 10/2 IV	220 o 380	200	12000	2,20	10,50 / 6,00	0,75	9,90
PE4 10/2 IV	220 o 380	300	18000	3,30	14,70 / 8,50	0,79	9,90
PE4 11/2 IV	220 o 380	50	3000	0,75	4,80 / 2,80	0,73	10,70
PE4 11/2 IV	220 o 380	100	6000	1,50	7,10 / 4,10	0,73	10,70
PE4 11/2 IV	220 o 380	200	12000	2,60	11,20 / 6,40	0,81	10,70
PE4 11/2 IV	220 o 380	300	18000	3,30	14,40 / 8,40	0,81	10,70
PE4 13/2 IV	220 o 380	50	3000	1,00	5,20 / 3,00	0,76	12,10
PE4 13/2 IV	220 o 380	100	6000	2,00	8,30 / 4,80	0,80	12,10
PE4 13/2 IV	220 o 380	200	12000	3,00	13,50 / 7,70	0,79	12,10
PE4 13/2 IV	220 o 380	300	18000	3,30	17,70 / 10,20	0,79	12,10
PE4 14/2 IV	220 o 380	50	3000	1,10	5,90 / 3,40	0,71	12,90
PE4 14/2 IV	220 o 380	100	6000	2,20	10,20 / 5,90	0,75	12,90
PE4 14/2 IV	220 o 380	200	12000	3,30	14,30 / 8,30	0,77	12,90
PE5 10/2 IV	220 o 380	50	3000	1,25	6,00 / 3,50	0,75	13,40
PE5 10/2 IV	220 o 380	1000	6000	1,90	8,10 / 4,60	0,81	13,40
PE5 10/2 IV	220 o 380	200	12000	3,00	13,10 / 7,50	0,79	13,40
PE5 14/2 IV	220 o 380	50	3000	3,00	12,40 / 7,10	0,80	20,90