

Variable speed drive

Compact, silent, flexible and adaptative variable speed drive for AC motors



- Materials in 316 l stainless caibent configured in different versions, from 40A to 500A.
- Designed for harsh environments
- Waterproof materials with adaptable connections
- Controlling synchronous or asynchronous motors
- On-board applications on DC network
- Air cooled or water cooled systems
- High efficiency

GENERAL CHARACTERISTICS OF VARIABLE SPEED DRIVES / ALECTIS

Various model	Alectis 40CA	Alectis 40CE	Alectis 70CE	Alectis 100CE	Alectis 300CE	Alectis 500CE
Codification	YEX0240/01	YEX0239/01	YEX0238/01	YEX0237/01	YEX0236/01	YEX0235/01
ELECTRICAL						
Input voltage $U_e \pm 15\%$	$276V_{cc} \leq U_e \leq 450V_{cc}$					
Output voltage $0 \leq U_s \leq U_e/\sqrt{2}$	US=180Vac (line voltage) to 276Vdc, 293Vac to 450Vdc					
Output Frequency	$0 \leq F_b \leq 600Hz$					
Auxiliary input voltage (From $195V_{AC}$ to $253V_{AC}$)	230VAC+ 10% /-15% avec F= 50/60Hz					
Output current I_N	40 A		70 A	100 A	300 A	500 A
Output Power	12.5KW		22KW	31.2KW	93.5KW	156KW
Switching frequency	>10KHz					
MECHANICAL						
Dimensions L x H x D ($\pm 10mm$)	378x500x300	270x500x300	450x500x350	500x600x400	500x900x650	
Waterproofing	Cabinet IP55					
Cooling	Air	Water				

SERVICING SYSTEM

- Controlling synchronous or asynchronous motors
- Compact, discrete, flexible and adaptive
- On-board applications on DC current
- Configurable with PC (Scalar control (U/f) / Field Oriented Control), defect historization and Ethernet connectivity

CHARACTERISTICS

- Scalar control (U/f) and Field Oriented Control (Foc)
- Sensorless
- With Sensor: absolute encoder, incremental encoder, magnetic encoder, etc.
- Efficiency > 92%
- Motor protection: overtemperature, overcurrent, overspeed, I²t, etc.
- Variable speed drive protection: input voltage and output current (I²t)

INPUTS/OUTPUTS

- 1 analog input
- 8 On/Off logical I/O dedicated + 5 available
- 7 preprogrammed speeds
- On-the-fly automatic recovery
- Programmable ramp rates
- Local/remote control
- In situ programming available

Standards

EMC: STANAG 4437

Withstand to shocks 15g 11ms: CEI 68-2-11

Withstand to vibrations: CEI 68-2-6

Vibration measurement: IT1570

Noises measurement: IT1571

Low-voltage equipment assembly: EN 60439-1

Certified product C.E.