

FREKVENSBOMFORMERE FOR 3-FASE 230 V AC MOTORER

VLA1-serien (Basic)

VLA102A240

Frekvensomformer for 3-fase 230V AC motor 0,25 kW
1,7 A



- 0,25-2,2 kW / 1,7-9,6 A
- Kun 60 mm bredde
- Skrumontering
- 1-fase inn / 3-fase 230 V AC

PRODUKTBESKRIVELSE

Frekvensomformere brukes for å hastighetsregulere 3-fase motorer. VLA1-serien er Lovatos nye kompakte serie med frekvensomformere for 3-fase 230 V motorer.

VLA1 serien finnes i 5 modeller med 3 forskjellig fysiske størrelser fra 0,25-2,2 kW. Innspenningen er 1-fase 230 V AC og utspenning er 3-fase 230 V.

VLA1 er enkel å programmere fra knappene i front da parameterne ikke har bare en kode, men en forklarende tekst som forteller hva som programmeres. Alternativt finnes en software (VLBX SW) for overføring av program samt mulighet for ekstern front montert display (VLAX P01).

VLA1 serien er designet for å møte IE2 effektivitetskravene.

Ved IT-nett, skal man fjerne 2 skruer på høyre side TX10. Se manual.

Hastighet referansesignaler:

- Potensiometer 1...10 k ohm
- 0-10 V eller 4-20 mA
- Knapper i front (dør mont. display)
- 15 satte hastigheter fra digitale innganger
- mm

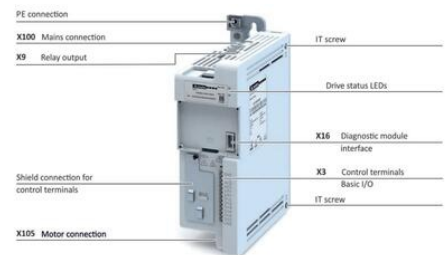
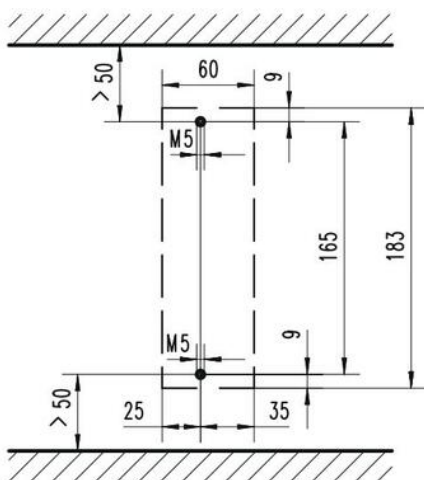
Programmerbare innganger/utganger:

- PNP, NPN valgbar
- 5 digitale inn
- 1 digital ut, (1 veksel)
- 2 analoge inn (1 x 0-10 V, 1 x 0-10 V eller 4-20 mA)
- 1 analog ut (0-10 V eller 4-20 mA)

TEKNISKE DATA

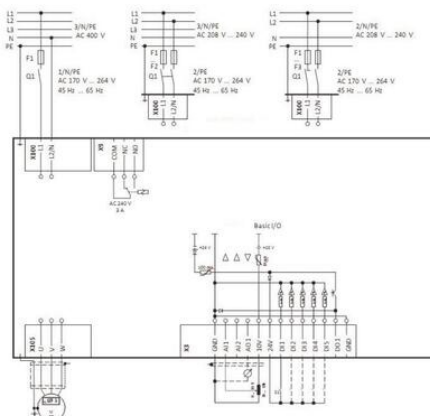
Bredde	60 mm
Digitale innganger	5 pc
Display	Bakgrunnsbelyst LCD-display
Dybde	130 mm

Frekvens maks.	60 Hz
Frekvens min.	50 Hz
Godkjenninger	CSA 22.2, cULus, RCM
Høyde	183 mm
Innganger	Potmeter 1...10 k ohm, 0-10 V eller 4-20 mA
IP-klasse	IP20
Montering	Skruer
Motoreffekt maks	0,25 kW
Motorspenning maks	240 V AC
Motorspenning min	200 V AC
Motorstrøm maks	1,7 A
Motortype	Asynkron 3-fase motor
Temperaturområde drift fra	-10 °C
Temperaturområde drift til	55 °C
Vekt	0,75 kg



CONNECTION TO THE IT SYSTEM

NOTICE!
Internal components have earth/ground potential if the IT screws are not removed. Consequence: the monitoring functions of the IT system respond. Before connection to an IT system be absolutely sure to remove the IT screws.



Function of the keypad keys

Navigate, select group/parameter. Change parameter setting.

Pressed shortly: enter in the sub-parameter level. Keep pressed for more than 3 sec to save parameter settings in the memory.

Exit from the menu/parameter.

Stop motor.

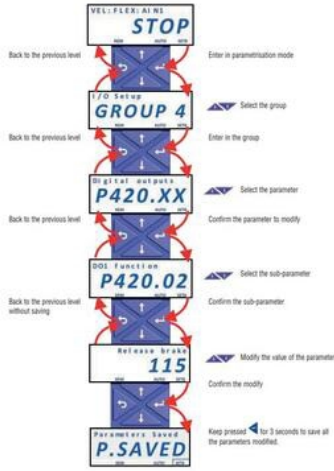
Run motor.

Activate full keypad control.

Reversal of rotation direction.

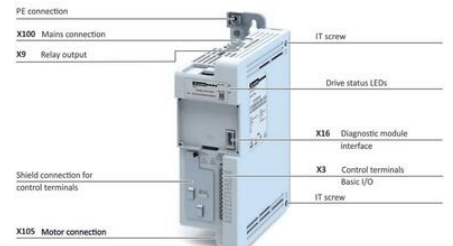
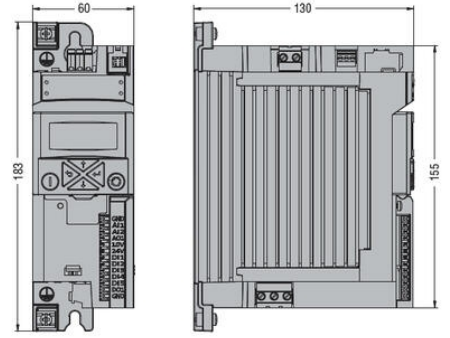


Example of navigation in the menu of the VSD and modification of a parameter:



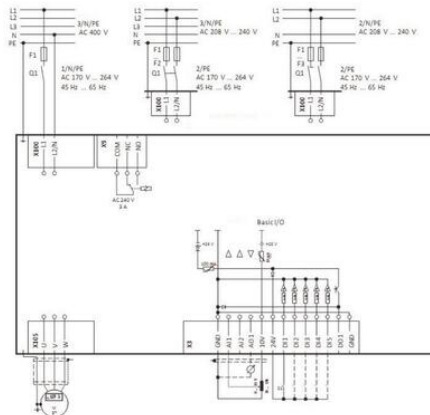
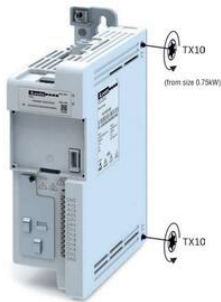
Last default settings
TO LOAD THE DEFAULT PARAMETERS, SET P030=01

STOP LED (blue)	STOP LED (red)	Stop monitoring
off	off	No stop voltage
blinking (2 Hz)	off	Drive inhibited
	blinking (2 Hz)	Drive inhibited, warning active
	off	Drive inhibited, fault active
	off	Drive inhibited
	blinking (4 Hz)	Drive inhibited, warning active
	blinking (2 Hz)	Drive inhibited, quick stop in response to a fault active



CONNECTION TO THE IT SYSTEM

NOTICE!
Internal components have earth/ground potential if the IT screws are not removed. Consequence: the monitoring functions of the IT system respond. Before connection to an IT system be absolutely sure to remove the IT screws.

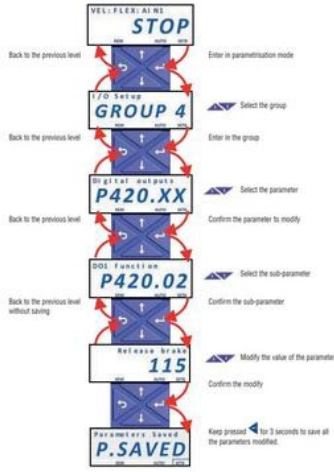


Function of the keypad keys

Navigate select group/parameter. Change parameter setting	[Up Arrow]
Pressed shortly: enter in the sub-parameter level. Keep pressed for more than 3 sec to save parameter settings in the memory.	[Down Arrow]
Exit from the menu/parameter	[Left Arrow]
Stop motor	[Red Stop Button]
Run motor	[Blue Run Button]
Activate full keypad control	[CTRL Button]
Reversal of rotation direction	[Blue Arrow Button]



Example of navigation in the menu of the VSD and modification of a parameter:



Last default settings
TO LOAD THE DEFAULT PARAMETERS, SET P390-01=1

STOP LED (blue)	STOP LED (red)	Stop/running
off	off	No supply voltage
blinking (2 Hz)	off	Drive inactive
off	blinking (5 s for a short time)	Drive inhibited, no DC-link voltage
off	blinking fast (4 Hz)	Drive inhibited, warning active
off	off	Drive inhibited, fault active
off	off	Drive enabled
blinking fast (4 Hz)	off	Drive enabled, warning active
blinking (2 Hz)	off	Drive enabled, quick stop in response to a fault active

