

Installation Instructions

LOP Connection and Set-up

1.1.1 Items Supplied

- Local operating panel (LOP), 175N0128 IP 65, see Illustration 1.1
- Fixture for LOP, 175N2717 (included in 175N0128), see *Illustration 1.2*
- LOP cable

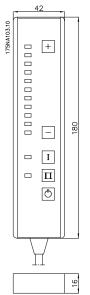


Illustration 1.1 Local Operation Panel (LOP) 175N0128 IP 65

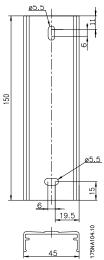


Illustration 1.2 Fixture for LOP 175N2717 (included in 175N0128)

1.1.2 Safety Instructions

Refer to VLT® DriveMotor FCP 106 and FCM 106 Operating Instructions for detailed information about safety precautions for installation.

▲WARNING

DISCHARGE TIME

The frequency converter contains DC-link capacitors, which can remain charged even when the frequency converter is not powered. Failure to wait the specified time after power has been removed before performing service or repair work, could result in death or serious injury.

- 1. Stop motor.
- Disconnect AC mains, permanent magnet type motors, and remote DC-link power supplies, including battery back-ups, UPS, and DC-link connections to other frequency converters.
- 3. Wait for the capacitors to discharge fully, before performing any service or repair work. The duration of waiting time is specified in *Table 1.1*.

Voltage [V]		Minimum waiting time (min)
3x400	0.55-7.5	4

High voltage can be present even when the warning LED indicator lights are off.

Table 1.1 Discharge Time

1) Power ratings relate to NO, see VLT^{\otimes} DriveMotor FCP 106 and FCM 106 Operating Instructions.



1.1.3 Connection to FCP 106 or FCM 106

- 1. Connect the LOP as shown in *Table 1.2* and *Illustration 1.3*.
- After completing connections, cut off or isolate excess wire.
- 3. Connect terminal 27 to +24V or set 5-12 Terminal 27 Digital Input to [0] No operation.

Colour of wire	Terminal	Function	
White	53	Reference	
Brown	18	Reset	
Purple, orange or grey	19	See <i>Table 1.3</i> , under Key I	
Green	27	See <i>Table 1.3</i> , under Key II	
Red	12	+24 V	
Yellow	50	+10 V	
Blue	55	Ground	

Table 1.2 Wiring to FCP 106 or FCM 106 Terminals

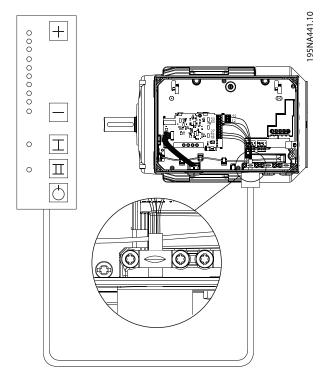


Illustration 1.3 LOP Connections to FCP 106 or FCM 106

1.1.4 Set-Up

- 1. Perform set-up according to *Table 1.3*.
- 2. Use the [+]/[-] keys to set reference.
- 3. At power up, the unit is always in stop mode. The set reference is stored during power down. To set up permanent start mode, connect terminal 12 to terminal 19 and do not connect purple/grey wire to terminal 12. Permanent start mode will disable the stop function on the LOP.

Function	Settings	Key I (Start)	Key II (Start)	Ó
				Key (Stop)
Default - Dual speed operation	No changes to factory setting.	Run on set	Run on 5 Hz ¹⁾	Stop (and reset ²⁾
(connect purple or orange wire)		reference (+/-)	jog speed	- if trip)
Function 2 - Dual mode	Select desired modes of operation in Setups 1 and 2	Run with	Run with	Stop (and reset ²⁾
operation	Set 0-10 Active Set-up to [9] Multi Set-up	Setup 1	Setup 2	- if trip)
(connect purple or orange wire)	Set 5-13 Terminal 29 Digital Input to [23] Set-up select bit 0			
Function 3 - Dual direction	Set 4-10 Motor Speed Direction to [2] Both directions	Run forward	Run reverse	Stop (and reset ²⁾
operation (connect grey wire)	Set 5-13 Terminal 29 Digital Input to [11] Start reversing			- if trip)

Table 1.3 LOP Operation Mode

¹⁾ Set Jog speed in 3-11 Jog Speed [Hz]

²⁾ When reset is required, set 5-11 Terminal 19 Digital Input to [1] Reset.









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