

## *A brake motor for a safely movement*



**Motor LS40/160 – FCPL40**

This brake motor has been designed by **PATAY MOTORS** to motorize hoisting moves **from 7.5kW to 18.5kW**.

Used in several thousand units on construction site cranes, it has shown its robustness and reliability in this difficult environment.

### **MOTOR CHARACTERISTICS :**

#### **MOTOR IP55 :**

4 poles motor - 230/400V 50Hz.

The available powers are included between 7,5 and 18,5 kW.

Mounting B5, B3 or B35.

Reduced inertia of the machine which facilitates the dynamic functioning.

Insulation of class F.

We selected a 60 % duty factor for our brake motor without additional ventilation. This definition covers the majority of hoisting applications.

#### **BRAKE IP55 :**

Security brake of **FCPL** range, with settable torque from 65 to 200 Nm, but not adjustable once set.

The disc is equipped with a weak wear brake lining.

The standard coil voltage is 180Vcc.

### **VARIABLE SPEED BRAKE MOTOR.**

Associated to a **UNIDRIVE SP** inverter of the same calibre, it allows to have a complete solution in opened or closed loop, tested and reliable.

The inverter integrates functions of brake control, ends of running, speed optimization by load weighing.

In closed loop, safety device if overspeeding, backlash, load holding at zero speed.

The motor and inverter characteristics are available in factory on inquiry.



**The PATAY FCPL40 brake**



**UNIDRIVE SP inverter**

## THE RANGE :

Power (Kw)	Motor type	Brake static torque (Nm)	Inverter
7.5	LS160SA	80	UNIDRIVE SP 11T
9	LS160SB	95	UNIDRIVE SP 16T
11	LS160MP	125	UNIDRIVE SP 16T
15	LS160LR	160	UNIDRIVE SP 22T
18.5	LS160LL	180	UNIDRIVE SP 27T

## OPTIONS :

- Motor :**
- \* Probe PTO, PTF or CTP.
  - \* Bracket or special end shaft.
  - \* Space heater.
  - \* Encoder, tachogenerator.....
  - \* Inductive sensors mounting.
  - \* Axial forced ventilation.
  - \* Mounting B3.



- Brake :**
- \* Special tensions on inquiry.
  - \* Brake lining wear or brake release detector.
  - \* Brake release lever.

Type	FF	End shaft				Main dimensions					
		38x80	42x110	48x110	HJ	M	n.	S	N	P	LB
160	180	Yes	No	No		180	4	12	160	210	615
	215					215	4	15	180	250	603
	265				200	265	4	14,5	230	300	603
	<b>300</b>		Yes			<b>300</b>	<b>4</b>	<b>18,5</b>	<b>250</b>	<b>350</b>	<b>603</b>
	350					350	4	18,5	300	400	603

In black : standard configuration

