

According to the CE89/392 directives appendix IIB concerning machinery

### GIOVENZANA

declares that  
PO2 - PO3 - PL - PLB pendant stations comply with the following standards:

### Harmonised standards

EN292 part 1 and 2  
(machine safety)  
UNI EN ISO 9001  
EN60529 (IP rating)

### Standards and technical specifications

IEC 947-5-1  
(low voltage equipment)  
FEM 9.941  
(operators' designation)

### As stated in appendix V of the CE directives with regards to machinery

The technical documentation is held by the manufacturer.

The company Giovenzana, leader in lifting equipment control accessories, has designed the PO2 - PO3 - PL - PLB series pendant stations according to the relevant International standards

These new product series are the end result of a close investigation with regards to the operator's needs and requirements:

- Adequate cabling space
- Ease of use thanks to a light and user friendly pendant station
- Versatility of assembly allowing quick and easy replacement of the 22 Ø operators and their Pegasus contact blocks
- Each pendant station is provided with a new generation EN418 emergency stop incorporating a snap action actuation that prevents halting the machinery before the mushroom is in the locked position. Contacts are "positive opening" type.
- The following contacts are supplied as standard:  
1NO for the movement (FEM 9.941)  
1NC for emergency (EN418)  
1NO+1NO for double speed  
Optional accessories are always supplied separately and installed by the end user.

### GENERAL CHARACTERISTICS

- Double insulated enclosures in thermoplastic self-extinguishing material
- IP65 rating according to EN60529
- Operating temperature -25 +70 °C
- Available from 2 up to 14 holes - 22 Ø - on single or double row
- Cable entry: PO2 - PTRM - PO3 - PL with variable section cable sleeve  
DC16 - DC30 - TLP with cable clamp
- Mechanical life: push buttons and rotary switches
- 1 mil. operations  
Latched emergency stops
- 0,3 mil. operations

### CONTACT BLOCK CHARACTERISTICS

- VO UL94 self-extinguishing material
- Rated thermal current: 16A
- Rated insulation voltage: 690V
- Insulation category: Group CV VDE 0110
- Contact impedance: ≤25 MΩ
- Slow break self cleaning double gap contact block - Positive opening NC contact block
- Tripping force: 4N
- Terminal protection rating: IP20 - EN60529
- Max contact No.: 3
- **UL A600 - Q 600** certified

## GENERAL CHARACTERISTICS

Double insulated ABS enclosures

IP65 protection rating according to IEC/EN 60529

Ambient temperature: operating  $-25^{\circ} + 70^{\circ} \text{ }^{\circ}\text{C}$

storage  $-40^{\circ} + 70^{\circ} \text{ }^{\circ}\text{C}$

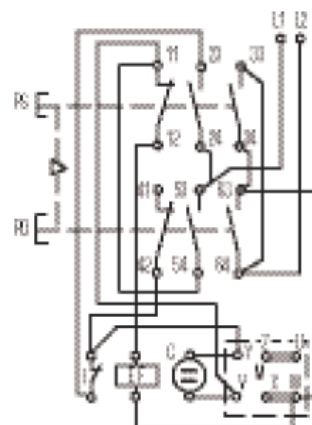
Double gap slow break contacts

Cable entry with M25 cable clamp

Rated insulation voltage:  $U_i$  690V

Rated thermal current  $I_{th}$ : 16A

Rated operating power: 400V ac -1kW



### 1KW DIRECT SWITCHING MOTOR WIRING DIAGRAM

PS UP push button

PD DOWN push button

I Top limit switch

M Motor

C Capacitor

EF Electric break



| PUSH BUTTONS | DESCRIPTION                                                                                                                         |                                  | REFERENCE NO. | WEIGHT gr |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------|-----------|
| 2+2          | For single-speed motor control<br>2 mechanically interlocked<br>+ 1 Start/Alarm<br>+ 1 Emergency stop ø 30<br>turn to release EN418 |                                  | PLB04         | 560       |
| 2+2          | For two-speed motor control<br>2 mechanically interlocked<br>+ 1 Start/Alarm<br>+ 1 Emergency stop ø 30<br>turn to release EN418    | No. of 2-speed<br>movements<br>2 | PLB04D2       | 590       |



|     |                                                                                                                                                   |                                  |         |     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------|-----|
| 4+2 | For single-speed motor control<br>4 mechanically interlocked between pairs<br>+ 1 Start/Alarm<br>+ 1 Emergency stop ø 30<br>turn to release EN418 |                                  | PLB06   | 560 |
| 4+2 | For two-speed motor control<br>4 mechanically interlocked between pairs<br>+ 1 Start/Alarm<br>+ 1 Emergency stop ø 30<br>turn to release EN418    | No. of 2-speed<br>movements<br>2 | PLB06D2 | 690 |
|     |                                                                                                                                                   | 4                                | PLB06D4 | 720 |



|     |                                                                                                                                                   |                          |         |       |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|-------|
| 6+2 | For single-speed motor control<br>6 mechanically interlocked between pairs<br>+ 1 Start/Alarm<br>+ 1 Emergency stop ø 30<br>turn to release EN418 |                          | PLB08   | 840   |
|     |                                                                                                                                                   |                          |         |       |
| 6+2 | For two-speed motor control<br>6 mechanically interlocked between pairs<br>+ 1 Start/Alarm<br>+ 1 Emergency stop ø 30<br>turn to release FN418    | No. of 2-speed movements |         |       |
|     |                                                                                                                                                   | 2                        | PLB08D2 | 870   |
|     |                                                                                                                                                   | 4                        | PLB08D4 | 900   |
|     |                                                                                                                                                   | 6                        | PLB08D6 | 1.030 |



|      |    | For single-speed motor control                 |                                                                    |       |  |
|------|----|------------------------------------------------|--------------------------------------------------------------------|-------|--|
|      |    | No of operators<br>mechanically<br>interlocked | + 1 Start/Alarm<br>+ 1 Emergency stop ø 3<br>turn to release EN418 |       |  |
| 8+2  | 8  | PLB10                                          |                                                                    | 1.150 |  |
| 10+2 | 10 | PLB12                                          |                                                                    | 1.270 |  |
| 12+2 | 12 | PLB14                                          |                                                                    | 1.390 |  |

