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NUPI 66 is an oil-hydraulic actuator to automate swinging gates, designed and manufactured by FADINI with high precision technique. This product incorporates the motor, pump and valve assembly in one block, an innovative design, implying that all the parts work as a single unit immersed in an oil bath in the oil reservoir; oil is special and makes the unit unaffected by cold or hot weather. A unique feature of this new product is the absence of max./minimum pressure adjustments. Pressure control is electronically achieved through Elpro 7 RP, the electronic control panel, specially designed for this unit to control power and provide anti-crush safety; people and vehicles are so protected from crush hazard as the electric motor is instantaneously pulsed to stop by the control panel. The electric motor is class H, designed to work 230 V in an oil bath, and directly connected to a lobe pump type P5 to ensure constant flow rate. Two way locking in open, close and stop gate positions. Overriding in case of an emergency is by a special key. Once the actuator is unlocked, oil can directly flow from the cylinder chamber to oil reservoir, and the gate is released for manual operations. The rear fixing of NUPI 66 has a peculiar design as it incorporates a 12,5 µF capacitor, connected to a special terminal board, and provides a base for the oil reservoir. The head is made of aluminium; the casting has a central bore allowing the movements of the chromium plated steel shaft, fully sealed in conformity to the European standards. Front and back fixings of NUPI 66 are by hexagonal-head bolt (back) and pin/circlip (front) respectively. The actuator is completed with a streamlined cover, made of a combination of materials, all tested and guaranteed, such as anodized aluminium and carefully selected plastic to ensure a perfect performance in any working conditions and harsh environment. All parts are fastened and fixed by stainless steel screws. The materials used for the components and the machined parts are treated to prevent rust problems. All units are tested in a highly selective quality control program. Tested and certified CE marking and type testing according to ITT PDC No.2391-2008.

TECHNICAL SPECIFICATIONS

OIL-HYDRAULIC OPERATOR AND HYDRAULIC PUMP		ELECTRIC MOTORS	
P5 - Hydraulic pump capacity	1,4 //min	Power output	0,18 kW (0,25 HP)
Working pressure	10 atm	Supply voltage	230 Vac
Opening/closing Linear Speed	~13 mm/s	Frequency	50 Hz
Power	3,100 N	Absorbed current	1,2 A
Oil type	Oil Fadini - Item 708L	Absorbed power	250 W
Piston stroke	275 mm	Capacitor	12,5 µF
Piston diameter	45 mm	Motor rotation speed	1.350 rpm
Shaft diameter	16 mm	Intermittent service	S3
Working temperature	-20 °C +80 °C (*)	Class	H
Weight of Nupi 66 complete	8 kg	Flexible electric cable	CEI 20-52-FROR 450/750 V
Max. gate weight per leaf	400 kg		
Max. gate width per leaf	2,5 m		
Protection standards	IP 67		
Overall dimensions (length x width. x height.)	1.240x86x86 mm		

(*) -40 °C with specific optional accessories (Ref. General Catalogue).
 NOTE: It is always recommended to install an electric lock with gate leaves wider than 2,0 m.

PERFORMANCE

Frequency of use	intensive
Service cycle	18 s opening - 30 s dwell - 20 s closing - 30 s dwell
Complete cycle time	98 s
Complete Opening - Dwell - Closing - Dwell cycles	No.36/hour
Annual cycles (with 8 hours of use per day)	No.105.120

Drwg. No. 3250

TECHNICAL SPECIFICATION TABLE

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OIL-HYDRAULIC OPERATOR ABOVE GROUND FOR SWINGING GATES

