

SubTronic3P® Three Phase Motor Protection

The SubTronic3P® range covers all 4 inch 3 phase motors from 0.37kW to 7,5kW. Ergonomic design, attention to detail and unique features make the SubTronic3P® range your first choice when considering submersible motor protection and management. Together with Franklin Electric submersible motors you have an undisputable advantage, resulting in ease of installation, sophisticated system management and peace of mind.

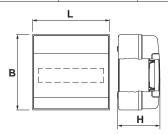
Product features:

- Attention to detail every aspect engineered for the application
- The complete package The device is 100% compatible with the motor characteristics
- All in one name Reliability backed by the leader in submersible motors



Ergonomically designed					
Mounting	Easy wall mounting offering various options without destroying the protection rating of the enclosure.				
Wiring	Reliable connectors are provided for ease of wiring.				
Motor compatible d					
Matching range	The SubTronic3P® Protector range was designed to match the Franklin Electric range of 3 phase motors.				
Wide range of operation	Compatibility with motor design allows for a wide range of operation resulting in minimized nuisance tripping.				
Intelligent Protection	n and Management features				
Dry-run detection (without probes)	Prevents motor and pump damage due to running the pump without water based on a proprietary reliable detection method.				
Dry-run auto- reset	Automatic dry-run reset time is based on a proprietary search algorithm to find the best operating point for weak wells. Reset time in max. 60 minutes.				
Over & Under voltage	Prevents motor damage that may be caused by abnormal voltage conditions without limiting the range of operation, made possible by matching the design of the SubTronic3P® Protector with the motor. Reset time approximately 3 minutes.				
Over current	Prevents operation under conditions where mo-				
protection	tor current may exceed safe levels due to bound pump or other fault condition. Detection is based on current heating capacity measurement to prevent unnecessary nuisance tripping. Auto-reset in 15 minutes. Manual reset possible in approximately 5 minutes by reapplying power.				
Rapid Cycle Protection	Prevents system damage due to factors such as continuous rapid cycling and excessive motor thermal cycling caused by waterlogged tank, faulty contacts or faulty pressure switch. Auto-reset in 5 minutes if condition clears. Manual reset possible in approximately 5 minutes by reapplying power.				
Indicators					
Status	Indication shows normal operation or other condition.				
Voltage	Faulty voltage condition is indicated.				
Fault conditions	Dry-run, Over Current, Rapid Cycling, Over Voltage and Under Voltage are indicated.				

Dimensions						
Motor Rating [kW]	W [mm]	L [mm]	H [mm]			
0,37kW - 3kW	190	184	106			
3,7kW - 7,5kW	250	256	140			



Specifications						
Mechanical Specification						
Protection level	IP 54					
Environment	This equipment is suitable for environment B according to IEC/EN 61439 - 1 : 2010					
Altitude	max 2000m above sea level					
External dimensions	190 x 184 x 106 mm <= 3kW					
External differisions	250 x 256 x 140 mm >= 3,7kW					
Mainlet	1,2 kg <= 3kW					
Weight	2,5 kg >= 3,7kW					
Mounting	Wall mounting (mounting hardware provided)					
Storage temperature	-25°C to +55°C					
Operation temperature	-5°C to +40°C					
Humidity	50% at 40°C (without condensation)					
Electrical Specifications						
Rated Voltage	3~ / 50Hz 380 - 415V					
Voltage tolerance	380V -10% / 415V+6%					
Rated insulation voltage	400 Vac					
Rated short-time withstand current	50 kA					
Rated conditional short-cir- cuit current	50 kA					
Current	5 A; 9 A; 25 A					
Power	0,37 - 7,5kW					
Standards						
IEC/EN 61439 - 1 : 2010						

SubTronic3P Motor Protection Specifications						
Motor Rating [kW]	Type 3phase / 400V 50Hz	Model Number	Nom. Current [A]	Max. Current [A]		
0,37	ST037P3	288 500 3511	1,1	5,4		
0,55	ST055P3	288 501 3511	1,6	7,4		
0,75	ST075P3	288 502 3511	2	10,6		
1,10	ST110P3	288 503 3511	2,8	16		
1,50	ST150P3	288 504 3511	3,9	20,7		
2,20	ST220P3	288 505 3511	5,5	29,8		
3	ST300P3	288 506 3511	7,5	42		
3,7	ST370P3	288 507 3511	9	52,3		
4	ST400P3	288 508 3511	9,9	57		
5,5	ST550P3	288 509 3511	12,6	77,2		
7,5	ST750P3	288 510 3511	17,1	99,3		