

ACCESSORIES SUBMERSIBLE MOTORS

SMART CONTROL BOX (SCB) 1~ & 3~ Intelligent motor/pump protection

The Smart Control Box (SCB) from Franklin Electric is the intelligent solution for reliable operation and comprehensive protection of single-phase and three-phase submersible and surface pumps.

Designed for demanding applications in water supply, pressure boosting, irrigation, sewage and wastewater, the SCB combines versatile protection functions with modern technology and robust design

Product features:

- **Reliable protection:** Integrated protection functions such as sensorless dry-running detection, overload, under- and overvoltage protection, phase failure and direction of rotation detection ensure maximum operational reliability.
- **Flexible control:** Whether via level or pressure switches, level probes or time control – the SCB adapts to your application.
- **Intuitive operation:** Dynamic LCD display, easy switching between operating modes and automatic pump calibration.
- **Robust & durable:** With an IP65-rated housing, a temperature range of -25 °C to +55 °C and wall mounting, the SCB is designed for use in the harshest conditions.
- **Easy installation:** Removable plug-in terminals and cable lengths of up to 1000 m for sensor connections facilitate integration into existing systems.



Model specificationen:

Pump & Motor Control	Smart Control Box (SCB)
Applications	Water supply, irrigation, tank level control, pressure boosting and wastewater
Enclosure Rating	IP65
Compatibility	1-phase (PSC) & 3-phase submersible and surface pumps
1-phase 230 V range & models	SCB55 - 0,55 kW
	SCB11 - 0,75 - 1,1 kW
	SCB15 - 1,5 kW
	SCB22 - 2,2 kW
3-phase 400 V range & models	SCB340 - 4,0 kW
	SCB375 - 5,5 - 7,5 kW
	SCB311 - 11 kW
	SCB315 - 15 kW
Input Voltage	1-phase 230 V ± 10 % 3-phase 400 V ± 10 %
Automatic pump calibration	Ja
Dry Run Protection	Yes - motor cos phi (FE motor only)
Dynamic LCD Display	Yes
Automatic and Manual Mode	Yes
External Sensor Connection	Yes
Nr. of Level probes	up to 6
Dimensions	1 frame size

Technical Specification:

- **power range:** 0.37 – 2.2 kW (1ph) | 0.55 – 15 kW (3ph)
- **motor type:** 1-phase 230V PSC motor (permanent split capacitor) / 3-phase 400V asynchronous motor
- **voltage:** 1-phase, 220/230 V | 50/60 Hz
3-phase, 380/400 V | 50/60 Hz
- **number of pumps:** 1
- **start-up procedure:** direct-on-line start (DOL)
- **ambient temperature:** -25 °C - 55 °C
- **humidity:** 20% - 90% RH, non-condensing
- **degree of protection:** IP65
- **wall mounting**

protective functions

- sensorless dry-running detection
- blocked pump/shaft
- overload protection
- undervoltage protection
- surge protection
- phase failure
- Phase reversal - Direction of rotation

SMART CONTROL BOX (SCB) 1~ Model numbers and Data

model no.	type	P [kW]*	V _{IN} [V]	I _{NOMINAL} [A]	I _{Full Load} [A]	Capacitor [μF]
284 630 3512	SCB55	0,55	230	4,5	20	20
284 632 3512	SCB11	0,75 - 1,1	230	8,5	20	35
284 633 3512	SCB15	1,5	230	11	20	50
284 634 3512	SCB22	2,2	230	15	20	70
284 634 4612	SCB	0,37 - 2,2	230	15	20	-

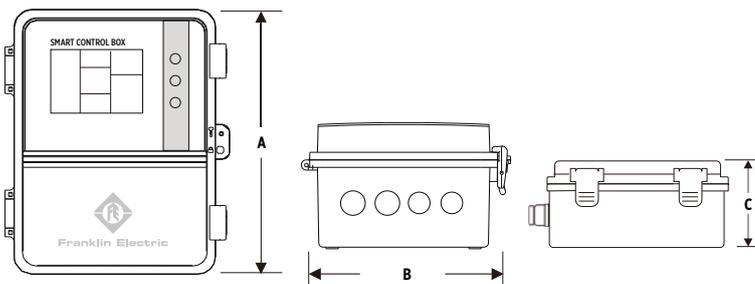
* Typical asynchronous motor

SMART CONTROL BOX (SCB) 3~ Model numbers and Data

model no.	type	P [kW]*	V _{IN} [V]	I _{NOMINAL} [A]	I _{Full Load} [A]
288 520 3512	SCB340	0,75	400	2	12
		1,1	400	3	12
		1,5	400	4	12
		2,2	400	5,5	12
		3	400	7,5	12
		4	400	10	12
288 521 3512	SCB375	5,5	400	13	18
		7,5	400	18	18
288 522 3512	SCB311	11	400	23,5	25
288 523 3512	SCB315	15	400	31,3	32

* Typical asynchronous motor

SMART CONTROL BOX (SCB) Dimensions



Dimensions SCB [mm]	length [A]	width [B]	height [C]
	229	193	116
Weight SCB [kg]	1- > 1,6 / 3- > 1,8		

SMART CONTROL BOX (SCB) Cable glands

Cable gland	Tightening torque [Nm]	Cable diameter Ø [mm]
M20	6	7-13
M20	6	7-13
M22	6	10-16
M22	6	10-16