

MOTOR CONTROLS

SMART CONTROL BOX (SCB)

Intelligent pump protection with the Smart Control Box (SCB)

- **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.

Protective functions

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

Technical Specification	
power range	0.37 – 2.2 kW (1ph) 0.75 – 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)
No. of Level probes	up to 6
Automatic pump calibration	Yes
ambient temperature	-25 °C - 55 °C
humidity	20% - 90% RH, non-condensing
degree of protection	IP65
Mounting	wall mounting,
Typical areas of application	Domestic water supply, Irrigation, Tank level control, Pressure boosting, Wastewater
Automatic and Manual Mode	Yes
External Sensor Connection	Yes



Model No.	Type	P [kW]	V _{IN} [V]	I _{NOMINAL} [A]	I _{FULL LOAD} [A]	Capacitor [μF]
284 630 3512	SCB55	0,37 - 0,55	230	4	20	20
284 632 3512	SCB11	0,75 - 1,1	230	7.8	20	35
284 633 3512	SCB15	1.5	230	10	20	50
284 634 3512	SCB22	2.2	230	14	20	70
284 634 4612	SCB*	0,37 - 2,2	230	14	20	-

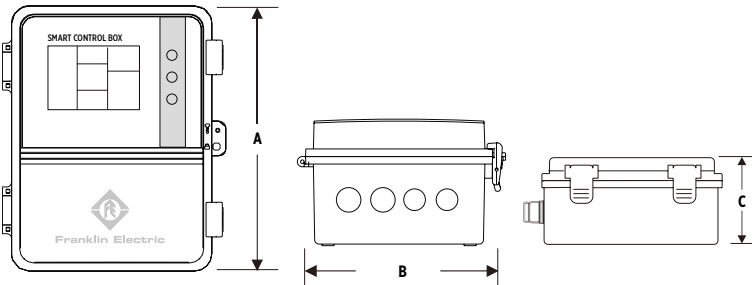
* Typical asynchronous motor

Model No.	Type	P [kW]	V _{IN} [V]	I _{NOMINAL} [A]	I _{FULL LOAD} [A]
288 520 3512	SCB340	0.55	400	1.6	12
		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
SCB375	288 521 3512	5.5	400	13	18
SCB375	288 521 3512	7.5	400	18	18
SCB311	288 522 3512	11	400	23.5	25
SCB315	288 523 3512	15	400	31.3	32

MOTOR CONTROLS

SMART CONTROL BOX (SCB)

Dimensions | Weight



Length [A]	Width [B]	Height [C]	Weight [kg]
229	193	116	1~ > 1,6 / 3~ > 1,8

Cable Glands

Cable Glands	Tightening Torque [Nm]	Cable Diameter Ø [mm]
M20	6	7-13
M20	6	7-13
M22	6	10-16
M22	6	10-16

