

MOTOR CONTROLS

SMART CONTROL BOX DUO (SCBD)

Smart Control Box Duo (SCBD) | Intelligent Control for Dual-Pump Systems

The Smart Control Box Duo (SCBD) from Franklin Electric is the intelligent solution for controlling, monitoring, and protecting two pumps. Designed for demanding applications in water supply, pressure boosting, and wastewater treatment, the SCBD combines state-of-the-art control technology, comprehensive protection features, and maximum flexibility in a rugged enclosure.

Technical specification	
Power range:	0.37 – 2.2 kW (1-phase) 0.55 – 15 kW (3-phase)
Motor type:	230 V PSC motors (1-phase) 400 V Asynchrone motors (3-phase)
Supply Voltage:	1PH 230V / 3PH 400 V (50/60 Hz)
Number of pumps:	Up to 2 pumps
Start-up procedure:	direct-on-line start (DOL)
Analog Sensor Inputs:	4-20 mA
Digital level inputs:	Up to 6 level switches or level sensors
Communication:	Modbus
Alerting:	Audible Alarm, Alarm Light
Enclosure Protection Rating:	IP65
Protective functions:	Sensorless dry-run detection Pump/shaft jam Overload protection Undervoltage protection Overvoltage protection Phase failure Phase reversal - direction of rotation

- **Intelligent control of two pumps:** Alternating and parallel operation of up to two pumps
- **Precise control with 4–20 mA sensors:** Connection of analog 4–20 mA transducers (such as pressure or level sensors)
- **Flexible level monitoring:** Connection of up to six single-pole level probes or four 2-wire level switches
- **Modbus communication:** Integrated Modbus interface for easy integration of the controller into building management systems and remote monitoring solutions
- **Visual and audible alarms:** Integrated audible alarm and highly visible alarm light for quick and unambiguous signaling of mal-functions
- **Easy operation:** Reduced installation effort thanks to automatic pump calibration
- **Robustness and durability:** Reliable operation even under demanding operating conditions



Models and Performance Ranges

SCBD 3-Phase 380/400 V 50/60 Hz					
Type	model no.	P _N [kW]	Description	V _{IN} [V]	I _{MAX} [A]
SCBD340	288 520 6512	0,55 - 4,0	SCBD340-0.55-4.0-400-3PH-2PUMP	400	25
SCBD375	288 521 6512	5,5 - 7,5	SCBD375-5.5-7.5-400-3PH-2PUMP	400	25
SCBD311	288 522 6512	11	SCBD311-11-400-3PH-2PUMP	400	25
SCBD315	288 523 6512	15	SCBD315-15-400-3PH-2PUMP	400	50

SCBD 1-Phase 220/230 V 50/60 Hz					
Type	model no.	P _N [kW]	Description	V _{IN} [V]	I _{MAX} [A]
SCBD22	284 634 6512	0,37 - 2,2	SCBD22-0.37-2.2-230-1PH-2PUMP	230	25

Cable Glands

Screw Connection	Tightening Torque	Cable Diameter
M24	6	10-16
M24	6	10-16
M24	6	10-16
M16	6	3-8
M16	6	3-8
M16	6	3-8

Dimensions

Length L [mm]	Width [mm]	Altitude [mm]
342	253	130

Dimensions Package

Length L [mm]	Width [mm]	Altitude [mm]
450	310	140

Weight

Weight [kg]
3.3