

SubDrive HPX

50 Hz

For Three-Phase Applications

SubDrive HPX facilitates Constant Pressure, Pressure Cycling, Flow Control, Switch Control and Tank Level Control

The SubDrive HPX offers a complete system for three-phase applications requiring 3.7 to 150 kW, coupled with a Franklin Electric pump and motor. The graphic display terminal allows installers to easily transition through menus, minimizing programming time. The Franklin Electric SubDrive HPX is ideal for a variety of surface and submersible pump applications.

SubDrive HPX features:

- UL, CE, C-Tick and CUL listed
- Easy installation
- Quick setup
- Push and turn selector
- Available in NEMA 0 and NEMA 1
- Can be placed in enclosure
- Pressure transducer
- Graphic display terminal
- Easy access terminals
- Optional surge arrestor on input power
- Optional conduit kit
- Optional replacement fan kit
- Optional output load reactor
- Optional input line reactor



Ordering Information

220 Volt				
Output Amps	Model Number	Conduit Kit	Controller Dimensions (L x W x D)	Shipping Weight
17.5	588 102 0175	225937902	26 x 15.5 x 21 cm	5.60 kg / 12.28 lbs
27.5	588 102 0275	225937903	29.5 x 17.5 x 21 cm	5.50 kg / 12.13 lbs
33	588 102 0330	225937904	29.5 x 21 x 23.6 cm	7.00 kg / 15.43 lbs
54	588 102 0540	225937905	40 x 23 x 23.6 cm	9.00 kg / 19.84 lbs
66	588 102 0660	225937905	40 x 23 x 23.6 cm	9.00 kg / 19.84 lbs
75	588 102 0750	225937906	42 x 24 x 25.9 cm	19.00 kg / 41.89 lbs
88	588 102 0880	225937906	42 x 24 x 25.9 cm	19.00 kg / 41.89 lbs

380 Volt				
Output Amps	Model Number	Conduit Kit	Controller Dimensions (L x W x D)	Shipping Weight
10.5	588 104 0105	225937902	26 x 15.5 x 21 cm	9.3 lbs / 4.2 kg
14.3	588 104 0143	225937903	29.5 x 17.5 x 21 cm	12.6 lbs / 5.7 kg
17.6	588 104 0176	225937903	29.5 x 17.5 x 21 cm	12.6 lbs / 5.7 kg
27.7	588 104 0277	225937904	29.5 x 21 x 23.6 cm	15.9 lbs / 7.2 kg
33	588 104 0330	225937905	40 x 23 x 23.6 cm	20.3 lbs / 9.2 kg
41	588 104 0410	225937905	40 x 23 x 23.6 cm	20.3 lbs / 9.2 kg
48	588 104 0480	225937906	42 x 24 x 25.9 cm	66.6 lbs / 30.2 kg
66	588 104 0660	225937907	55 x 24 x 28.9 cm	82.1 lbs / 37.2 kg
79	588 104 0790	225937907	55 x 24 x 28.9 cm	82.1 lbs / 37.2 kg
94	588 104 0940	225937908	63 x 32 x 31.3 cm	99.7 lbs / 45.2 kg
116	588 104 1160	225937908	63 x 32 x 31.3 cm	99.7 lbs / 45.2 kg
160	588 104 1600	225937908	63 x 32 x 31.3 cm	99.7 lbs / 45.2 kg
179	588 104 1790	225937909	92 x 32 x 37.7 cm	132.5 lbs / 60.2 kg
215	588 104 2150	225937909	92 x 32 x 37.7 cm	163.5 lbs / 74.2 kg
259	588 104 2590	225937910	102.2 x 36 x 37.7 cm	176.5 lbs / 80.2 kg
314	588 104 3140	225937911	118.9 x 34 x 37.7 cm	255.5 lbs / 116.2 kg

Line/Load Reactors



- Output load reactors are required for all applications. Reactor sizing is application dependent and is sized based on system voltage, max motor amps, and motor cable length.
- Refer to the SubDrive HPX selector software or contact your customer service representative for line/load reactor sizing and model numbers.

Model Number	Dimensions (H x W x D)	Weight
225930901	20.32 x 20.32 x 15.24 cm	4 lbs / 1.82 kg
225930902	20.32 x 20.32 x 15.24 cm	4 lbs / 1.82 kg
225930903	20.32 x 20.32 x 15.24 cm	4 lbs / 1.82 kg
225930904	20.32 x 20.32 x 15.24 cm	3 lbs / 1.36 kg
225930905	20.32 x 20.32 x 15.24 cm	4 lbs / 1.82 kg
225930906	20.32 x 20.32 x 15.24 cm	4 lbs / 1.82 kg
225930907	20.32 x 20.32 x 15.24 cm	5 lbs / 2.27 kg
225930908	20.32 x 20.32 x 15.24 cm	4 lbs / 1.82 kg
225930909	20.32 x 20.32 x 15.24 cm	7 lbs / 3.18 kg
225930910	20.32 x 20.32 x 15.24 cm	8 lbs / 3.64 kg
225930911	20.32 x 20.32 x 15.24 cm	11 lbs / 5 kg
225930912	20.32 x 20.32 x 15.24 cm	13 lbs / 5.91 kg
225930913	20.32 x 20.32 x 15.24 cm	9 lbs / 4.09 kg
225930914	20.32 x 20.32 x 15.24 cm	10 lbs / 4.55 kg
225930915	20.32 x 20.32 x 15.24 cm	18 lbs / 8.18 kg
225930916	20.32 x 20.32 x 15.24 cm	9 lbs / 4.09 kg
225930917	20.32 x 20.32 x 15.24 cm	12 lbs / 5.45 kg
225930918	60.96 x 42.88 x 46.69 cm	7.27 kg / 16 lbs
225930919	60.96 x 42.88 x 46.69 cm	5 kg / 11 lbs
225930920	60.96 x 42.88 x 46.69 cm	6.36 kg / 14 lbs
225930921	60.96 x 42.88 x 46.69 cm	9.09 kg / 14 lbs
225930922	60.96 x 42.88 x 46.69 cm	6.36 kg / 14 lbs
225930923	60.96 x 42.88 x 46.69 cm	7.27 kg / 16 lbs
225930924	60.96 x 42.88 x 46.69 cm	13.64 kg / 30 lbs
225930925	60.96 x 42.88 x 46.69 cm	10.45 kg / 23 lbs
225930926	60.96 x 42.88 x 46.69 cm	12.73 kg / 28 lbs
225930927	60.96 x 42.88 x 46.69 cm	17.73 kg / 39 lbs

Model Number	Dimensions (L x W x D)	Weight
225930928	60.96 x 42.88 x 46.69 cm	10.91 kg / 24 lbs
225930929	60.96 x 42.88 x 46.69 cm	12.27 kg / 27 lbs
225930930	60.96 x 42.88 x 46.69 cm	18.64 kg / 41 lbs
225930931	60.96 x 42.88 x 46.69 cm	19.55 kg / 43 lbs
225930932	60.96 x 42.88 x 46.69 cm	23.18 kg / 51 lbs
225930933	60.96 x 42.88 x 46.69 cm	27.73 kg / 61 lbs
225930934	60.96 x 42.88 x 46.69 cm	21.36 kg / 47 lbs
225930935	60.96 x 42.88 x 46.69 cm	23.18 kg / 51 lbs
225930936	60.96 x 42.88 x 46.69 cm	33.64 kg / 74 lbs
225930937	60.96 x 42.88 x 46.69 cm	13.18 kg / 29 lbs
225930938	60.96 x 42.88 x 46.69 cm	28.18 kg / 62 lbs
225930939	60.96 x 42.88 x 46.69 cm	29.09 kg / 64 lbs
225930940	60.96 x 42.88 x 46.69 cm	19.09 kg / 42 lbs
225930941	60.96 x 42.88 x 46.69 cm	23.18 kg / 51 lbs
225930942	60.96 x 42.88 x 46.69 cm	32.73 kg / 72 lbs
225930943	60.96 x 42.88 x 46.69 cm	22.27 kg / 49 lbs
225930944	60.96 x 42.88 x 46.69 cm	30.45 kg / 67 lbs
225930945	60.96 x 42.88 x 46.69 cm	45.45 kg / 100 lbs
225930946	60.96 x 42.88 x 46.69 cm	30.91 kg / 68 lbs
225930947	78.74 x 36.35 x 45.09 cm	48.18 kg / 106 lbs
225930948	78.74 x 36.35 x 45.09 cm	65 kg / 143 lbs
225930949	78.74 x 36.35 x 45.09 cm	50 kg / 110 lbs
225930950	78.74 x 36.35 x 45.09 cm	56.82 kg / 125 lbs
225930951	78.74 x 36.35 x 45.09 cm	86.36 kg / 190 lbs
225930952	78.74 x 36.35 x 45.09 cm	45.45 kg / 100 lbs
225930953	78.74 x 36.35 x 45.09 cm	70.45 kg / 155 lbs
225930954	78.74 x 36.35 x 45.09 cm	90.91 kg / 200 lbs
225930955	78.74 x 36.35 x 45.09 cm	54.55 kg / 120 lbs
225930956	101.6 x 59.21 x 55.25 cm	81.82 kg / 180 lbs
225930957	101.6 x 59.21 x 55.25 cm	131.82 kg / 290 lbs
225930958	101.6 x 59.21 x 55.25 cm	72.73 kg / 160 lbs
225930959	101.6 x 59.21 x 55.25 cm	113.64 kg / 250 lbs
225930960	101.6 x 59.21 x 55.25 cm	131.82 kg / 290 lbs
225930961	101.6 x 59.21 x 55.25 cm	90.91 kg / 200 lbs
225930962	101.6 x 59.21 x 55.25 cm	140.91 kg / 310 lbs
225930963	101.6 x 59.21 x 55.25 cm	195.45 kg / 430 lbs

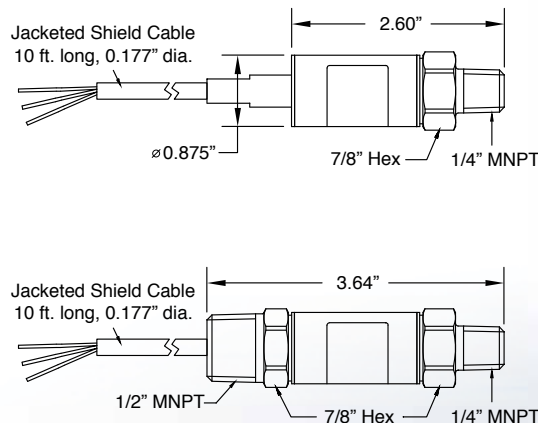
Drive Specifications

Drive Specifications/Surge Arrestors	
Input From Power Source	
Voltage	200 V - 575 V 3-Phase
Frequency	50 Hz
Max Amps (RMS)	SubDrive HPX Specific
Output To Motor	
Voltage	Adjusts with frequency
Frequency	Variable (up to 50 Hz)
Max Amps (RMS)	SubDrive HPX Specific
Pressure Setting	
Factory Preset	Application Specific/SubDrive HPX Settings
Operating Conditions	
Operating Temperature	-10 °C to +50 °C (+14 °F to +122 °F)
Storage Temperature	-25 °C to +70 °C (-13 °F to +158 °F)
Relative Humidity	5% - 95% Noncondensating
Controller Size	
NEMA 0	Refer to operator manual
NEMA 1	Refer to operator manual
For Use With	
Pump Rating	Match to motor rated hp
FE Motor Rating	3-phase motor

Pressure Transducer		
Figure	PSI	Part Number
Standard	100	225653901
	150	225653902
	200	225653903
	250	225653904
Conduit Connector	100	225653905
	150	225653906
	200	225653907
	250	225653908

Please contact your local distributor for availability of transducers.

CAUTION: Adhere to the safety guidelines (maximum pressure rating) of the pressure tanks in the system, while making sure to install the tank and sensor per applicable codes and also including a pressure relief valve.



Surge Arrestors

Surge arrestors are highly recommended for protecting submersible motors from a variety of commonly occurring high voltage spikes which can damage the motor insulation system and cause motor winding failure. These arrestors will not, as is true of any surge protection equipment, protect the motor from a direct lightning strike.

Motor Type	Part Number
Three-phase	155 440 902

Three-phase surge arrestor number 155 440 902 can be used on supply voltage systems up to 650 Volts to ground. Cap unused lead when used with single-phase input power.



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