





SUBDRIVE NEMA 4

FEATURES

- Single-phase input, 3-phase motor control
- Easy, plug-and-play installation
- 1-1/2 5 hp performance
- Smooth running
- High starting torque
- NEMA 4 enclosure (indoor/outdoor) offers robust protection against harsh environmental conditions
- Constant water pressure with a wide range of settings (25 to 80 psi)
- Soft-start feature prevents water hammer and increases motor life
- Works with small pressure tanks or existing larger tanks
- Advanced filtering to remove radio frequency interference
- Easily replaceable fan kit
- UL and cUL listed

APPLICATIONS

- Residential homes
- Restaurants
- Farms
- Schools
- Car washes
- Landscape irrigation systems

ORDERING INFORMATION

SubDrive Constant Pressure Controllers				
VFD	Enclosure Type	Model No.		
SubDrive 75	SubDrive NEMA 4 Variable Frequency	5870203384		
SubDrive 100		5870204104		
SubDrive 150		5870204154		
SubDrive 300		5870206300		





SUBDRIVE NEMA 4

SPECIFICATIONS

Model No.	la de en l'Octobre en	SubDrive75 (NEMA 4)	SubDrive100 (NEMA 4)	
Model No.	Indoor/Outdoor	Model 5870203384	Model 5870204104	
	Voltage	190-260 VAC	190-260 VAC	
	Phase In	Single-phase	Single-phase	
	Frequency	60/50 Hz	60/50 Hz	
Input from Power	Current (max)	19 Amps (RMS)	19 Amps (RMS)	
Source	Power Factor	1.0 (constant)	1.0 (constant)	
	Power (idle)	65 Watts 65 Watts		
	Power (max)	3800 Watts	3800 Watts	
	Wire Gauge Size(s)	Consult Federal, State, and Local codes for branch circuit installations	Consult Federal, State, and Local codes for branch circuit installations	
	Voltage	Adjusts with Frequency	Adjusts with Frequency	
	Phase Out	Three-phase (3-wire)	Three-phase (3-wire)	
Output to Motor	Frequency Range	30-80 Hz (1 hp, 0.75 kW) pump 30-70 Hz (1.5 hp, 1.1 kW) pump 30-60 Hz (2 hp, 1.5 kW) pump	30-80 Hz (1 hp, 0.75 kW) pump 30-70 Hz (1.5 hp, 1.1 kW) pump 30-60 Hz (2 hp, 1.5 kW) pump	
	Current (max)	8.1 Amps (RMS, each phase)	8.1 Amps (RMS, each phase)	
	Wire Gauge Size(s)	#6 - #18* ga.	#6 - #18* ga.	
Pressure Setting	Factory Preset	50 psi (3.4 bar)	50 psi (3.4 bar)	
Pressure Setting	Adjustment Range	25-80 psi (1.7 - 5.5 bar)	25-80 psi (1.7 - 5.5 bar)	
Operating	Temperature (at 230 VAC input)	-13 °F to 125 °F (-25 °C to 50 °C)	-13 °F to 125 °F (-25 °C to 50 °C)	
Conditions (A)	Relative Humidity	0-100%, condensing	0-100%, condensing	
Controller Size (B)	Outer Dimensions	17-1/2" x 16-3/8" x 11-3/8" (44.45 x 41.59 x 28.89 cm)	17-1/2" x 16-3/8" x 11-3/8" (44.45 x 41.59 x 28.89 cm)	
(approximate)	Weight	28.32 lbs (12.84 kg)	28.32 lbs (12.84 kg)	
For Use With (C)	Pump (60 Hz)	3/4 hp (0.55 kW) [default] 1.0 hp (0.75 kw) 1.5 hp (1.1 kW)	1 hp (0.75 kW) [default] 1.5 hp (1.1 kW) 2 hp (1.5 kW)	
	FE Motor	234514-Series (1.5 hp, 1.1 kw)	234315-Series (2 hp, 1.5 kW)	

Model No.	Indoor/Outdoor	SubDrive150 (NEMA 4)	SubDrive300 (NEMA 4)	
Model No.	indoor/Outdoor	Model 5870204154	Model 5870206300	
Input from Power Source	Voltage	190-260 VAC	220-260 VAC	
	Phase In	Single-phase	Single-phase	
	Frequency	60/50 Hz	60/50 Hz	
	Current (max)	23 Amps (RMS)	36 Amps (RMS)	
	Power Factor	1.0 (constant)	1.0 (constant)	
	Power (idle)	65 Watts	65 Watts	
	Power (max)	4600 Watts	7200 Watts	
	Wire Gauge Size(s)	Consult Federal, State, and Local codes for branch circuit installations	Consult Federal, State, and Local codes for branch circuit installations	
	Voltage	Adjusts with Frequency	Adjusts with Frequency	
	Phase Out	Three-phase (3-wire)	Three-phase (3-wire)	
Output to Motor	Frequency Range	30-80 Hz (1.5 hp, 1.1 kW) pump 30-70 Hz (2 hp, 1.5 kW) pump 30-60 Hz (3 hp, 2.2 kW) pump	30-80 Hz (3 hp, 2.2 kW) pump 30-70 Hz (5 hp, 3.7 kW) pump	
	Current (max)	10.9 Amps (RMS, each phase)	17.8 Amps (RMS, each phase)	
	Wire Gauge Size(s)	#6 - #18 * ga.	#2 - #18 * ga.	
Drossura Cattina	Factory preset	50 psi (3.4 bar)	50 psi (3.4 bar)	
Pressure Setting	Adjustment Range	25-80 psi (1.7 - 5.5 bar)	25-80 psi (1.7 - 5.5 bar)	
Operating	Temperature (at 230 VAC input)	-13 °F to 125 °F (-25 °C to 50 °C)	-13 °F to 125 °F (-25 °C to 50 °C)	
Conditions (A)	Relative Humidity	0-100%, condensing	0-100%, condensing	
Controller Size (B)	Outer Dimensions	17-1/2" x 16-3/8" x 11-3/8" (44.45 x 41.59 x 28.89 cm)	19-7/8" x 17-1/2" x 14-1/4" (50.48 x 44.45 x 36.20 cm)	
(approximate)	Weight	28.32 lbs (12.84 kg)	35.15 lbs (15.94 kg)	
For Use With (C)	Pump (60 Hz)	1.5 hp (1.1 kW) [default] 2 hp (1.5 kW) 3 hp (2.2 kW)	3 hp (2.2 kW) [default] 5 hp (3.7 kW)	
	FE Motor	234316-Series (3 hp, 2.2 kW)	234317-Series (5 hp, 3.7 kW)	

NOTES: Refer to Franklin Electric's SubDrive/MonoDrive Installation Manual.

(A) Operating temperature is specified at full output power when installed as described in Controller Location Selection.

(B) Refer to detailed Mounting Dimensions.

(C) If a pump other than the default rating is used, refer to Drive Configuration.

* Refer to detailed Circuit Breaker and Wire Sizing charts.



MONODRIVE & MONODRIVE XT NEMA 4

FEATURES

- Single-phase input, 3-wire motor control
- Easy, plug-and-play installation
- 1/2 2 hp performance
- Smooth running
- High starting torque
- NEMA 4 enclosure options (indoor/outdoor) offers robust protection against harsh environmental conditions
- Constant water pressure with a wide range of settings (25 to 80 psi)
- Soft-start feature prevents water hammer and increases motor life
- Works with small pressure tanks or existing larger tanks
- Advanced filtering to remove radio frequency interference
- Easily replaceable fan kit
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APPLICATIONS

- Residential homes
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ORDERING INFORMATION

MonoDrive Constant Pressure Controllers				
VFD	Model No.			
MonoDrive	MonoDrive/MonoDriveXT	5870203114		
MonoDriveXT	NEMA 4 Variable Frequency	5870204114		





MONODRIVE & MONODRIVE XT NEMA 4

SPECIFICATIONS

Model No.	lada a /Outda a r	MonoDrive (NEMA 4)	MonoDriveXT (NEMA 4)	
	Indoor/Outdoor	Model 5870203114	Model 5870204114	
Input from Power	Voltage	190-260 VAC	190-260 VAC	
	Phase In	Single-phase	Single-phase	
	Frequency	60/50 Hz	60/50 Hz	
	Current (max)	5.7 Amps (RMS) 1/2 hp, 0.37 kW system 8.7 Amps (RMS) 3/4 hp, 0.55 kW system 11 Amps (RMS) 1 hp, 0.75 kW system	13 Amps (RMS) 1.5 hp, 1.1 kW system 16 Amps (RMS) 2 hp, 1.5 kW system	
Source	Power Factor	1.0 (constant) 1.0 (constant)		
	Power (idle)	35 Watts	65 Watts	
	Power (max)	1150 Watts (1/2 hp, 0.37 kW) system 1750 Watts (3/4 hp, 0.55 kW) system 2150 Watts (1 hp, 0.75 kW) system	2500 Watts (1.5 hp, 1.1 kW) system 3100 Watts (2 hp, 1.5 kW) system	
	Wire Gauge Size(s)	Consult Federal, State, and Local codes for branch circuit installations	Consult Federal, State, and Local codes for branch circuit installations	
	Voltage	Adjusts with Frequency	Adjusts with Frequency	
	Phase Out	Single-phase (3-wire)	Single-phase (3-wire)	
	Frequency Range	30-60 Hz	30-60 Hz	
Output to Motor	Current (max)	Main Phase: 6 Amps (RMS) 1/2 hp, 0.37 kW system Main Phase: 8 Amps (RMS) 3/4 hp, 0.55 kW system Main Phase: 10.4 Amps (RMS) 1 hp, 0.75 kW system	Main Phase: 11.5 Amps (RMS) 1.5 hp, 1.1 kW system Main Phase: 13.2 Amps (RMS) 2 hp, 1.5 kW system	
	Wire Gauge Size(s)	#6 - #18 * ga.	#6 - #18 * ga.	
Pressure Setting	Factory Preset	50 psi (3.4 bar)	50 psi (3.4 bar)	
Pressure Setting	Adjustment Range	25-80 psi (1.7 - 5.5 bar)	25-80 psi (1.7 - 5.5 bar)	
Operating	Temperature (at 230 VAC input)	-13 °F to 125 °F (-25 °C to 50 °C)	-13 °F to 125 °F (-25 °C to 50 °C)	
Conditions (A)	Relative Humidity	0-100%, condensing	0-100%, condensing	
Controller Size (B)	Outer Dimensions	17-1/2" x 16-3/8" x 11-3/8" (44.45 x 41.59 x 28.89 cm)	17-1/2" x 16-3/8" x 11-3/8" (44.45 x 41.59 x 28.89 cm)	
(approximate)	Weight	24.14 lbs (10.95 kg)	28.32 lbs (12.84 kg)	
For Use With (C)	Pump (60 Hz)	0.5 hp (0.37 kW) pump with 214505-Series motor 0.75 hp (0.55 kW) pump with 214507-Series motor 1.0 hp (0.75 kW) pump with 214508-Series motor	1.5 hp (1.1 kW) pump with 224300-Series motor 2.0 hp (1.5 kW) pump with 224301-Series motor	
	FE Motor	214505-Series (0.5 hp, 0.37 kW) single-phase, 3-wire 214507-Series (0.75 hp, 0.55 kW) single-phase, 3-wire (default) 214508-Series (1.0 hp, 0.75 kW) single-phase, 3-wire	224300-Series (1.5 hp, 1.1 kW) single-phase, 3-wire (default) 224301-Series (2.0 hp, 1.5 kW) single-phase, 3-wire	

NOTES: Refer to Franklin Electric's SubDrive/MonoDrive Installation Manual.

(A) Operating temperature is specified at full output power when installed as described in Controller Location Selection.

(B) Refer to detailed Mounting Dimensions.

(C) If a pump other than the default rating is used, refer to Drive Configuration.

* Refer to detailed Circuit Breaker and Wire Sizing charts.



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