

embraco

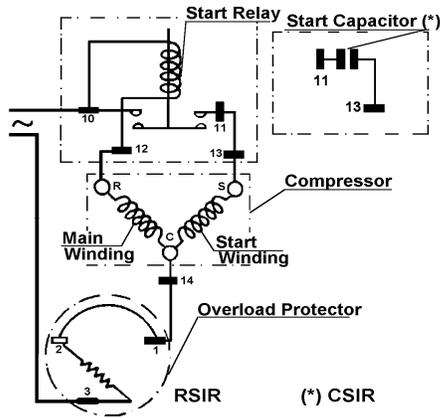
FFI12HBX1

LBP-MBP-HBP

115V

134a

Wiring Diagram



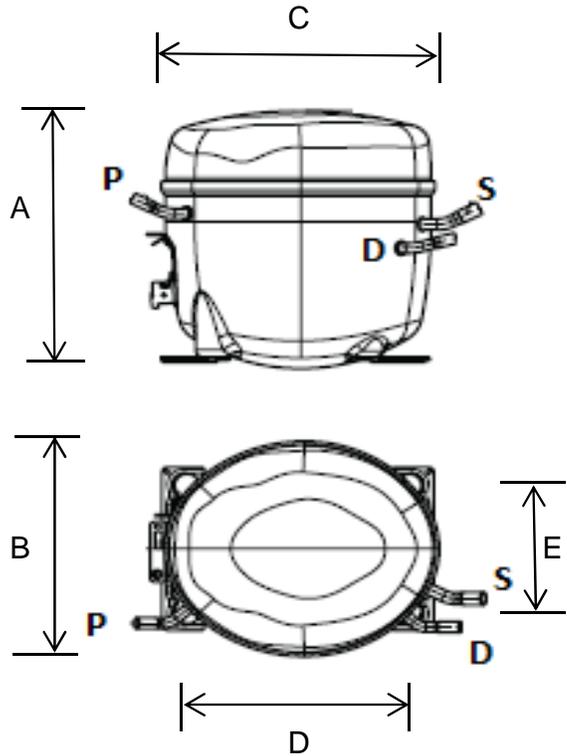
Compressor Terminals

- C = Common
- R = Run
- S = Start

Electrical components are supplied unassembled. Use of components other than specified will void warranty.

Dimensions (inches)

A: 7.93" B: 6.8" C: 8.02" D: 6.5" E: 4.0"



Tube Diameter

ID	Inch	MM
Process	.255-1/4	6.5
Suction	.325-5/16	8.3
Discharge	.255-1/4	6.5

Technical Specifications

Rev 1-2018

Mechanical Data	English	Metric	Electrical Data	
Bore	1.02 in	26 mm	Motor: Voltage Voltage range Run winding resistance at 25° C Start winding resistance at 25° C Locked rotor current FLA: L/MBP-60Hz FLA: HBP-60Hz	CSIR
Stroke	0.827 in	21 mm		115V / 60 Hz
Displacement	0.68 cu in	11.14 cc		103-140V
Speed	3,500 rpm	3,500 rpm		1.04 Ω
Weight	25.4 lb	11.52 kg		3.87 Ω
Oil Charge	9.47 oz.	280 ml		43 amps
Oil type	POE	ISO22		7.2 amps
				8.1 amps
Compressor Cooling:				
Fan Cooled by forced draft over shell with 6 watt minimum fan.				
Restrictor:				
Capillary Tube or expansion valve				
			Capacitor: Start cap 378-454 mfd 165V Run cap N/A N/A	

	FFI12HBX1	LBP-MBP-HBP	115V	134a
Specifications			Usage	
Approximate H. P.	1/3+		Drinking Water Coolers	
Starting Torque	High		Dehumidifiers	
Refrigerant	134a		Ice Machines	
Evaporator Temperature	Low/Med/High		Reach In Refrigerators	
Evaporator Temperature	-31° to 50°F		Beer Coolers	

LBP Performance					
Temperature °F	-22	-10	5	14	32
Capacity BTU/Hr	745	1,190	1,883	2,449	3,891
Power W	241	292	372	421	527
Current Amps	4.79	4.65	5.3	5.56	6.23
Temperature °C	-30	-23.3	-15	-10	0
Capacity Kcal/Hr	188	300	475	617	980
HBP Performance					
Temperature °F	14	20	32	45	50
Capacity BTU/Hr	2,449	3,000	3,891	5,300	5,781
Power W	421	454	527	612	648
Current Amps	5.56	5.76	6.23	6.8	7.12
Temperature °C	-10	-6.7	0	7.2	10
Capacity Kcal/Hr	617	726	980	1,336	1,457
ASHRAE	LBP	MBP	Rating Point (bolded above)	ASHRAE	HBP32
Condensing	130°F	130°F		Condensing	130°F
Evaporator	-10°F	20°F		Evaporator	45°F
Return Gas	90°F	95°F		Return Gas	90°F
Ambient	90°F	95°F		Ambient	90°F
Liquid Temp.	90°F	115°F		Liquid Temp.	90°F

Material	Part number	Description	Compressor Cross Ref.	
Compressor	513200003	FFI12HBX1	Model	Appl.
Relay	513516053-ESP	Current relay	AEA4440YXA	MBP/HBP
Terminal Cover	513555040			
Overload	513554095-ESP	MRT 22AFZ-5598		
Start Cap	513556535-ESP	378-454 mfd / 165V		
Grommet	2221003			
Sleeve	2222015			

EMBRACO NORTH AMERICA, INC.
1610 Satellite Blvd. Suite B, Duluth Ga, 30097 Phone: 678-805-3074