

Compressor Technical Data

Model: EG130HLR

Code: 513700341

Description

Refrigerant:	R-134a	Displacement (cm ³):	10,61
Voltage:	220-240 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	230
Application:	LBP	Motor Type:	RSIR-CSIR
HP:	1/3+	Starting Torque:	LST
Efficiency:	4,83	Type of Test:	ASHRAE32
Capacity:	1052,00		

Approval

VDE

Data

External Features

	Shape	Material	Diameter (mm)
Suction Connector	Straight	Copper	6,50
Discharge Connector	Straight	Copper	4,94
Process Connector	Straight	Copper	6,50

Oil Cooler:	
Base Plate:	Universal EG/F/AMEM version 2
Tray Holder:	No
Weight (kg):	11,23

Application

Maximum ambient temperature (°C):	43
Expansion device:	Capillary
Cooling:	Static
Air flow rate:	

Mechanical Data

Bill of materials:	513700341
Starting torque:	Low Starting Torque
Bore (mm):	26,00
Stroke (mm):	10,00
Weight (kg):	11,23

Electrical Data

Motor type:	RSIR-CSIR
Winding Resistance (25°C) - Start:	7,60
Winding Resistance (25°C) - Run:	34,70

Check Point - Condensing Temperature 54,4 °C

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)			(Btu/h)	(W)	(A)
-23,3	259	301	1.026	221	1,74	1,17	1,36	4,63

Condensing Temperature 45 °C

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-35	143	166	568	149	1,56	3,21	0,96	1,11	3,80
-30	194	225	768	174	1,64	4,35	1,11	1,30	4,42
-25	256	297	1.015	200	1,70	5,76	1,28	1,48	5,07
-20	332	387	1.319	229	1,77	7,51	1,45	1,69	5,76
-15	426	495	1.690	259	1,84	9,65	1,65	1,91	6,53
-10	539	627	2.139	290	1,92	12,26	1,86	2,16	7,39

Condensing Temperature 55 °C

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-35	125	145	496	144	1,57	2,81	0,87	1,01	3,44
-30	174	202	690	177	1,64	3,91	0,98	1,14	3,90
-25	234	272	927	210	1,71	5,26	1,11	1,29	4,41
-20	307	357	1.220	244	1,79	6,94	1,26	1,46	4,99
-15	397	462	1.577	278	1,88	9,00	1,43	1,66	5,66
-10	506	589	2.009	312	1,99	11,51	1,62	1,89	6,44

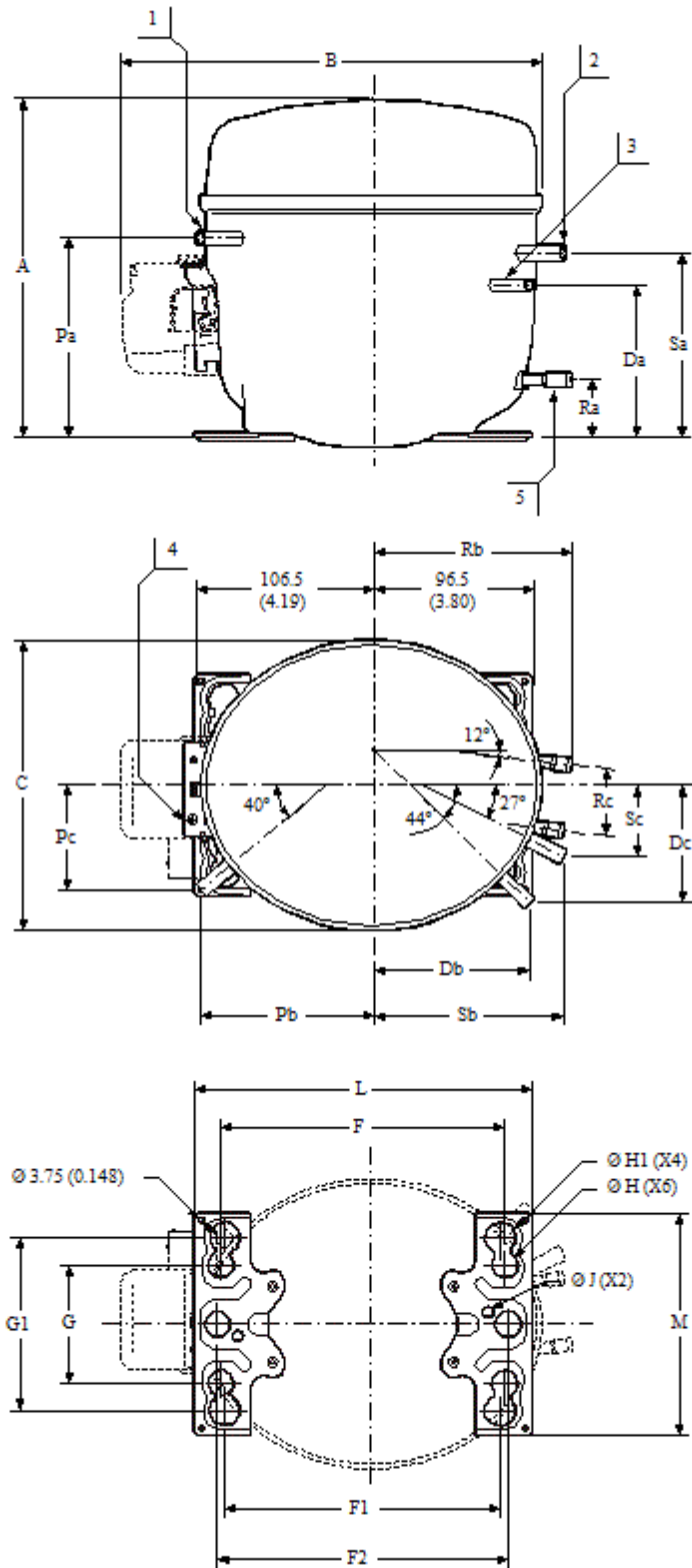
Condensing Temperature 65 °C

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-35	99	115	392	139	1,59	2,22	0,71	0,83	2,82
-30	147	172	585	177	1,65	3,32	0,83	0,97	3,31
-25	207	240	820	214	1,72	4,66	0,97	1,12	3,83
-20	279	325	1.107	250	1,81	6,30	1,12	1,30	4,43
-15	367	427	1.457	285	1,91	8,32	1,29	1,50	5,11
-10	474	551	1.880	318	2,05	10,77	1,49	1,73	5,91

Dimensions

Compressor Housing

	mm	inch		mm	inch		mm	inch		mm	inch
A	201,00	7,91	Rb	---	---	Sa	1.093,00	43,03	Rc	---	---
B	251,00	9,88	F	178,00	7,01	Pa	118,00	4,65	G1	1.016,00	40,00
C	173,00	6,81	G	70,00	2,76	Da	90,00	3,54	F2	170,00	6,69
E	---	---	F1	165,00	6,50	Ra	---	---	N	---	---
Sb	1.154,00	45,43	T	---	---	Sc	44,00	1,73	L	203,00	7,99
Pb	106,00	4,17	M	1.315,00	51,77	Pc	65,00	2,56	H	16,00	0,63
Db	95,00	3,74	J	7,00	0,28	Dc	72,00	2,83	H1	19,00	0,75

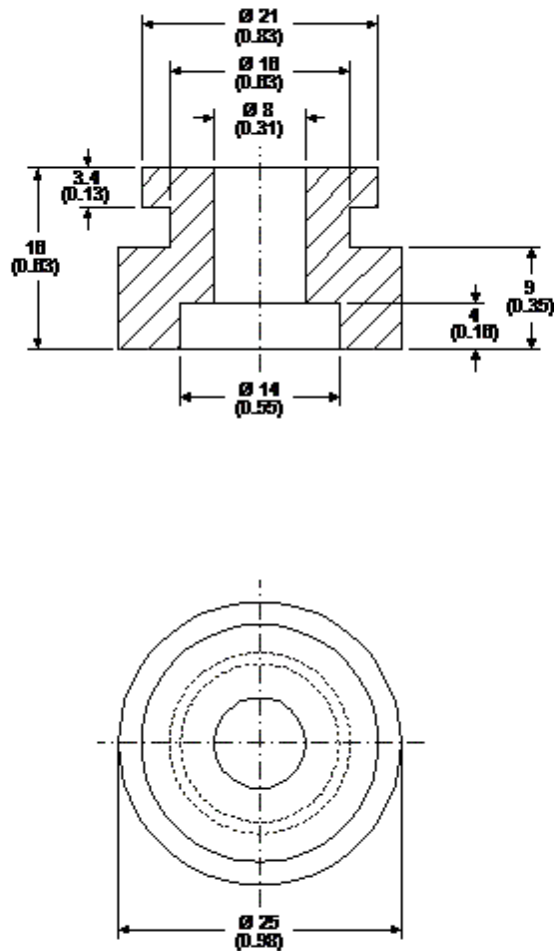


1 - Process Connector 2 - Suction Connector 3 - Discharge Connector 4 - Earthing Terminal 6 - Tray Hold

Rubber Grommet

Engineering Code	13146411
Dimensions	mm (Inch)

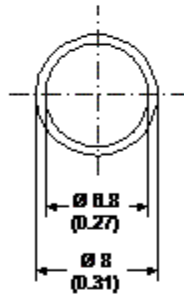
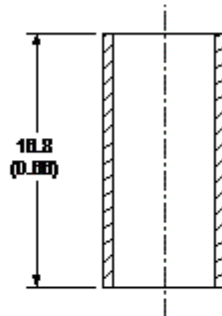
The grommets are made of special rubber and used in the nut and bolt type or in the snap on type assembly. The rummer grommet, the dimensions of which are shown in the figure below, was developed for installation in compressors with 16 and 19 mm diameters holes in the base plate.



Metal Bushing

Engineering Code	13126755
Dimensions	mm (Inch)

As an optional assembly accessory, Embraco can supply metal bushings, the purpose of which is to limit tightening of the screws upon attachment of the compressor assembly to the refrigeration system. This bushing is made of steel in the dimensions shown in the figure below, and comes with an anti-rust coating of chromated zinc.

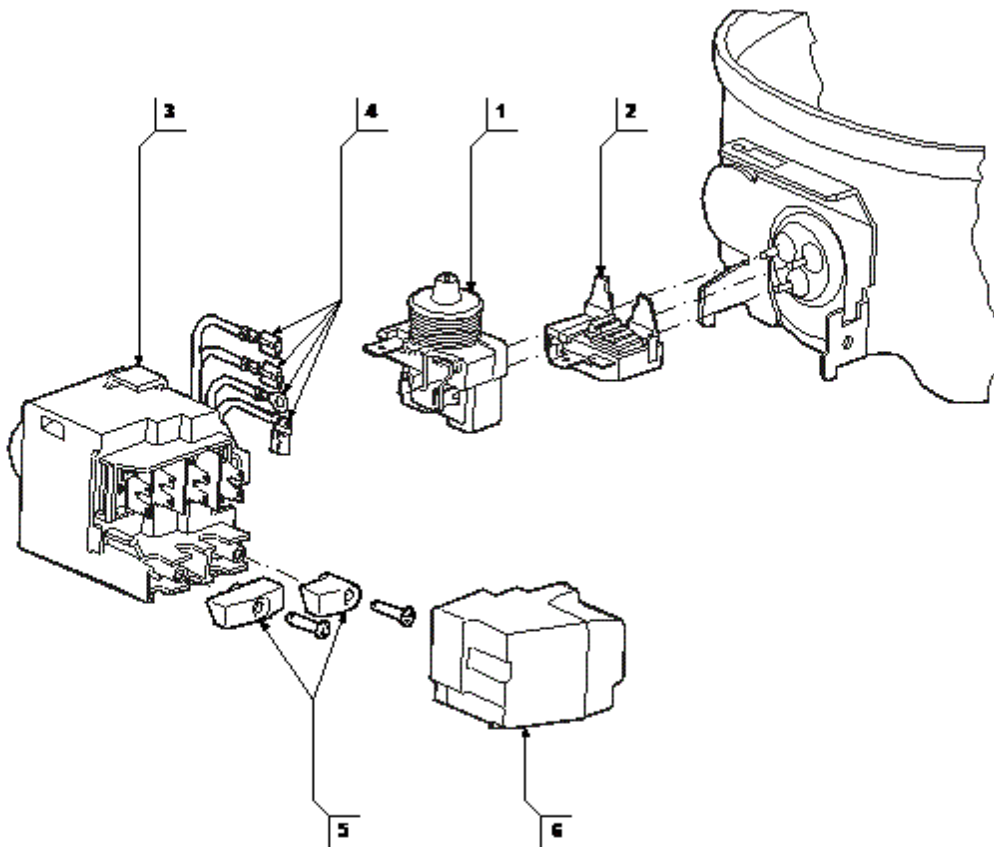


Accessories

Starting Device

Assembly Engineering Code	519109500
Starting Device - Relay	Starting Device - Relay
Overload Protector	13634572
Electrical Components Cover	

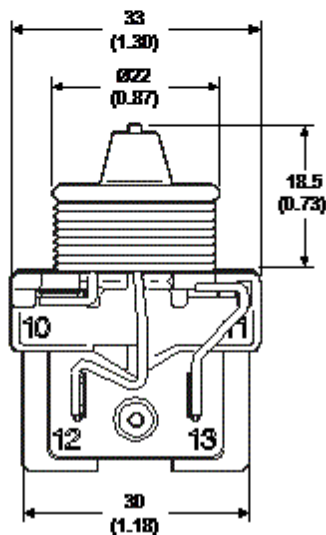
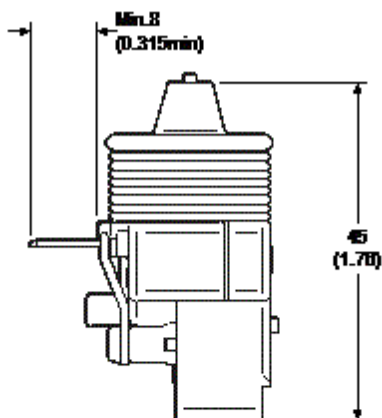
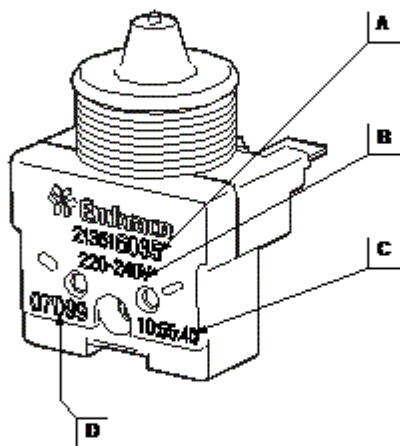
Note: 1 - Starting device - Relay 2 - Overload protector 3 - Terminal board 4 - Internal wiring 5 - Cord anchorages 6 - Terminals cover



Starting Device - Relay

Engineering Code	213516442
Pick Up Current (A)	6,1
Drop-Out Current (A)	4,6
Terminal Size "E"	6.3 x 0.8 (0.250 x 0.03)
Dimensions	mm (Inch)

Note: A - Subassembly code. B - Voltage. C - Manufacturing time. D - Manufacturing date (Example: 03C99 - MARCH 03, 1999)
 Type: Electromagnetic. Materials: Body - Bakelite. Contacts: Silver.
 Cooper wire: B class (130°C/266°F).
 Manufacturer: Embraco. Application: Starting capacitor (Optional)



Overload Protector

Engineering Code	13634572
Vendor Code	4TM319NFBYY-53
Opening Temperature	120°C (248°F)
Closing Temperature	61°C (141,8°F)
Triping Current at 25°C (77°F)	12 A
Reaction Time	5.0s - 15.0s
Terminal Size "A"	6.3 x 0.8 (0.250 x 0.03)
Dimensions	mm (Inch)

The overload protectors are identified by the suppliers. Each thermal protector has its own distinct characteristics of opening temperature, closing temperature and trip current. 1 - Vendor number 2 - Overload protector model

