Single
Packs

Single Pack TFS4.5CLX 115-127V 60Hz CSIR

Single pack code number: **195B4165**

Position	Title	Code	Amount
1	Compressor TFS4.5CLX	102U2103	1
2	Starting relay (overload protector MRP36AEN-6)	117U4148	1
3	Starting capacitor (280µF 125V, 6.3mm)	117U5025	1
4	Cord relief	117U0349	2
5	Cover	117U1021	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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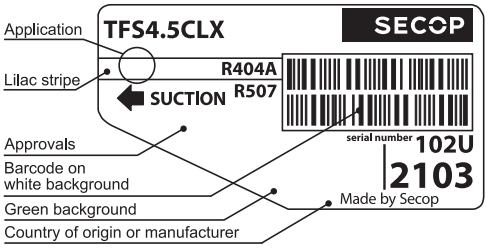
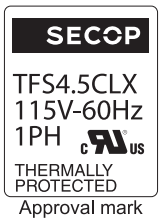
TFS4.5CLX
LBP Compressor
R404A/R507
115 - 127V 60Hz





Approval mark

General

Code number	102U2103
Approvals	UL984
Compressors on pallet	125

Application

Application		LBP	
Frequency	Hz	50	60
Evaporating temperature	°F	–	-49 to 20
Voltage range	V	–	103 - 135
Max. condensing temperature continuous (short)	°F	–	120 (135)
Max. winding temperature continuous (short)	°F	–	257 (275)

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
90°F		–	–	–	F_1	–	–
100°F		–	–	–	F_1	–	–
110°F		–	–	–	F_1	–	–
Remarks on application:							

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s
(compressor compartment temperature
equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary
SG = Suction gas cooling normally sufficent
– = not applicable in this area

Motor

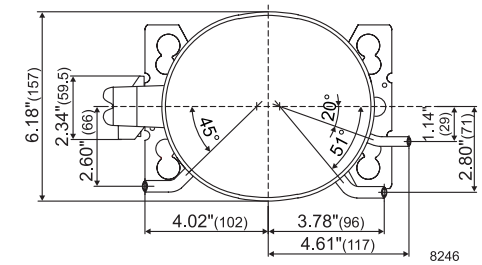
Motor type		CSIR	
LRA (rated after 4 sec. UL984), HST | LST	A	20.0	–
Cut in Current, HST | LST	A	20.0	–
Resistance, main | start winding (77°F)	Ω	2.6	3.8

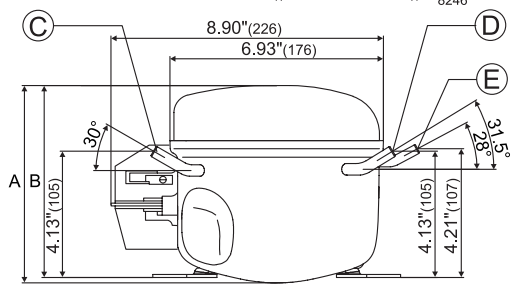
Design

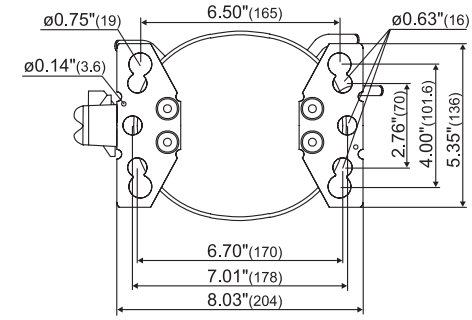
Displacement	cu.in	0.29
Oil quantity (type)	fl.oz.	9.5 (polyolester)
Maximum refrigerant charge	oz.	14.0
Free gas volume in compressor	fl.oz.	57.3
Weight without electrical equipment	lbs.	17.9

Dimensions

Height	inch	A	6.81
		B	6.65
		B1	–
		B2	–
Suction connector	location, I.D. in. | angle	C	0.252-0.259 | 30°
	material | comment		Copper | Rubber plug
Process connector	location, I.D. in. | angle	D	0.252-0.259 | 31.5°
	material | comment		Copper | Rubber plug
Discharge connector	location, I.D. in. | angle	E	0.189-0.193 | 28°
	material | comment		Copper | Rubber plug
Oil cooler connector	location, I.D. in. | angle	F	–
	material | comment		–
Remarks:			







ASHRAE LBP 115V, 60Hz, fan cooling F_1

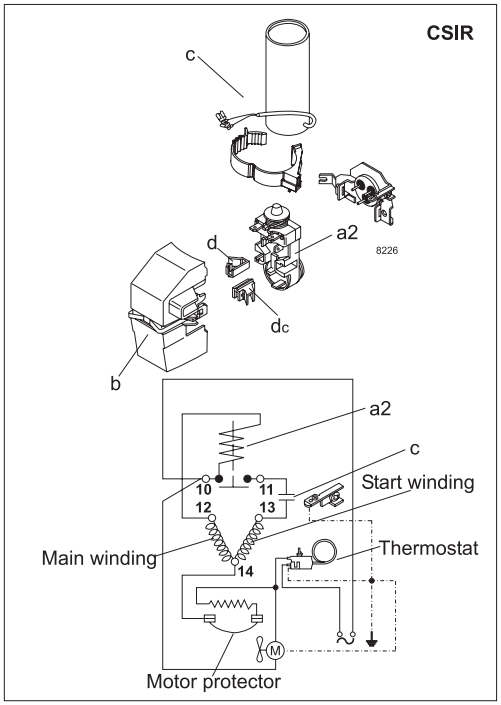
Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h	210	332	494	690	851	926	1207	1539	1688	1930							
Power cons. in W	100	130	161	194	217	228	266	310	329	360							
Current cons. in A	2.18	2.26	2.40	2.60	2.76	2.84	3.14	3.48	3.64	3.88							
EER in BTU/Wh	2.10	2.56	3.06	3.56	3.91	4.06	4.53	4.97	5.68	5.36							

ASHRAE LBP* 115V, 60Hz, fan cooling F_1

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h	289	407	569	769	933	1010	1298	1637	1789	2034							
Power cons. in W	113	135	160	186	206	215	250	291	309	340							
Current cons. in A	2.23	2.29	2.39	2.55	2.70	2.76	3.03	3.34	3.48	3.70							
EER in BTU/Wh	2.55	3.01	3.56	4.14	4.53	4.69	5.20	5.63	5.78	5.98							

EN 12900 Household (CECOMAF) 115V, 60Hz, fan cooling F_1

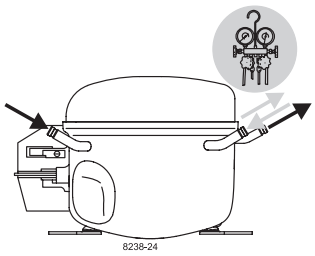
Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in W	67	100	141	192	233	252	325	410	448	509							
Power cons. in W	109	134	160	187	207	217	251	292	311	342							
Current cons. in A	2.21	2.28	2.39	2.55	2.70	2.77	3.04	3.35	3.49	3.72							
COP in W/W	0.62	0.75	0.89	1.03	1.13	1.17	1.29	1.40	1.44	1.49							



Accessories for	TFS4.5CLX	Figure	Code number
Starting relay	1/4 in. spade connect.	a2	117U4148
Protector 3/4 in.	Texas Instruments		MRP36EN-6
Cover		b	117U1021
Start. capacitor 280 µF	1/4 in. spade connect.	c	117U5025
Cord relief		d	117U0349
Cord relief for capacitor		dc	117U0349

Test conditions	ASHRAE LBP	ASHRAE LBP*	EN 12900/ CECOMAF
Condensing temp.	130°F	110°F	113°F
Ambient temp.	90°F	90°F	90°F
Suction gas temp.	90°F	90°F	90°F
Liquid temperature	90°F	90°F	113°F

Mounting accessories		Code number
Bolt joint for one comp.	Ø: 5/8 in.	118-1917
Bolt joint in quantities	Ø: 5/8 in.	118-1918
Snap-on in quantities	Ø: 5/8 in.	118-1919



TF Compressors

SECOP