

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

Codice Imballo Singolo: **195B4228**

Posizione	Titolo	Codice	Quantità
1	Compressor TFS4.5CLX	102U2115	1
2	Starting relay (overload protector MRP36AEN-6)	117U4148	1
3	Starting capacitor (280 μ F 125V, 6.3mm)	117U5025	1
4	Cord relief	117U0349	2
5	Cover	117U1021	1
6	Bolt joint for one compressor M6 \varnothing 16mm	118-1917	1

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Model

Designation	TFS4.5CLX	115-127V/60Hz 1~	Sales code:	102U2115
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R404A, R507
Oil viscosity	32cST	Displacement	4,63cm ³ / 0,28cu.in
Oil quantity	283cm ³ / 9,6fl.oz	Compressors on pallet	125
Refr. charge - tech. limit	600g / 21,2oz		
Free gas volume comp.	1690cm ³ / 57,1fl.oz		
Weight	8,1kg / 17,9lbs		
Motor protection	external		
Winding resistance main	2,6Ω (at 25°C)		
Winding resistance aux	3,8Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with TFS4.5CLX

	Conf. 1
Motorconfiguration	CSIR
Power supply (nominal)	115V/60Hz
Number of phases	1
Voltage range	103-135V
Approvals	UL
Starting torque	HST
Note	- / -

Applications with TFS4.5CLX

	Conf. 1
Refrigerant	R404A
Application	LBP
System cooling	fan 1,5m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with TFS4.5CLX

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	280μF
LRA (locked rotor amps / 4s)	20A
RLA (rated load amps / 1s)	3,2A
Cut in current	20A

Model

Designation

TFS4.5CLX

115-127V/60Hz 1~

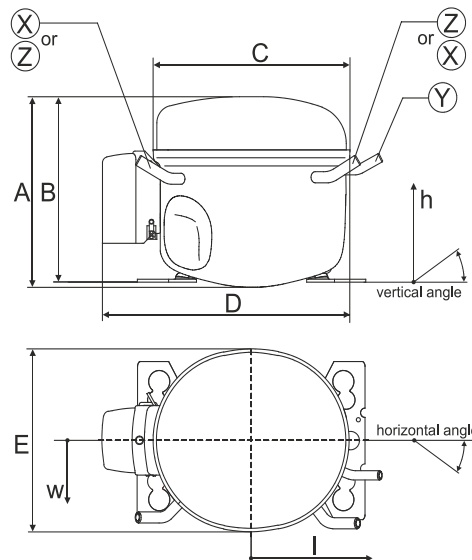
Sales code:

102U2115

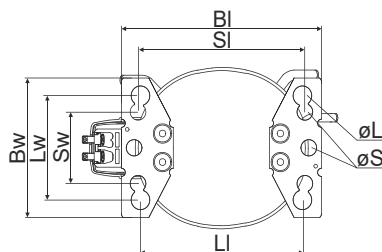
Compressor dimensions

Housing	A Height	174mm / 6,85in
	B Height	168mm / 6,61in
	C Length shell	176,5mm / 6,95in
	D Length w. cover	226mm / 8,9in
	E Width	156mm / 6,14in

Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 6,41-6,59	øi 6,41-6,59	øi 6,41-6,59
	(i:inside, o:outside) [in]	øi 0,25-0,26	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	31,5°	28°	30°
Position l/h/w	[mm]	96/104/71	117/106/29	102/104/66
	[in]	3,8/4,1/2,8	4,6/4,2/1,1	4/4,1/2,6
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

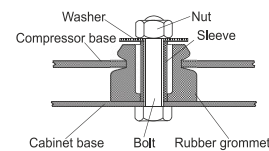


Compressor fixation

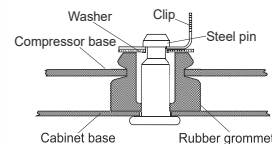


Baseplate	[mm]	[inch]
BI	204	8.03
BW	136	5.35
Large holes	[mm]	[inch]
LI	165	6.5
LW	101.6	4
ØL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
ØS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories

Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Application notes

LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

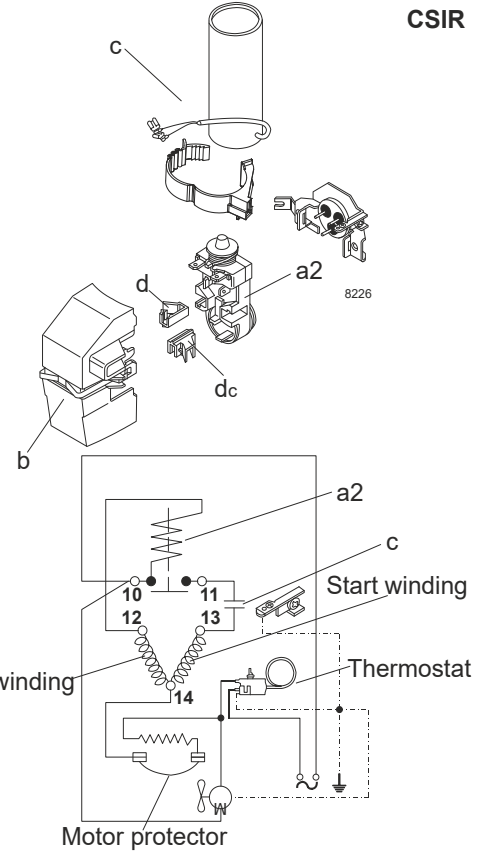
Model

Designation	TFS4.5CLX	115V/60Hz	Conf. 1	Sales code:	102U2115
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Configuration

Motorconfiguration	CSIR
Power supply (nominal)	115V/60Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	103-135V
Starting torque	HST
Approvals	UL

Electrical accessories / wiring diagram

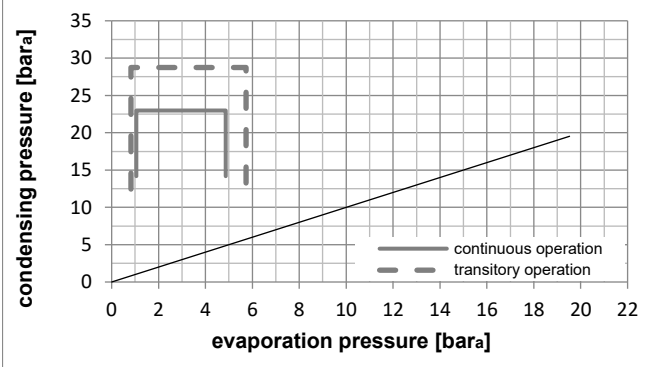
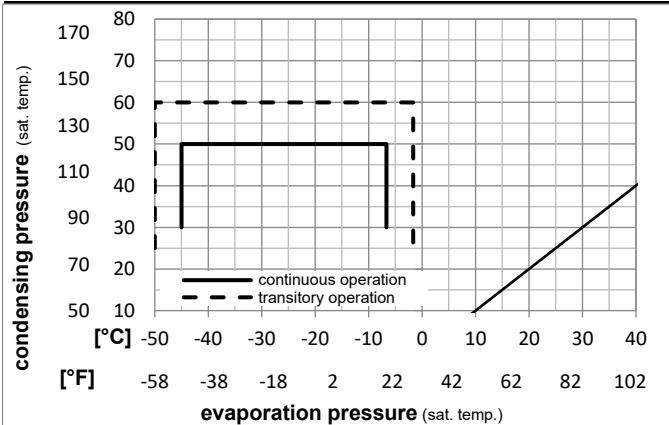


Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 1,5m/s	n/a	n/a
38°C / 100°F	fan 1,5m/s	n/a	n/a
43°C / 110°F	fan 1,5m/s	n/a	n/a

Operation pressure range



Components

a2	assy. relay + ext. protector (MRP36EN-6)	117U4148
c	start capacitor (280μF)	117U5025
b	plastic cover	117U1021
d/dc	cord relief	117U0349
d/dc	cord relief	117U0349

Alternative components

b	plastic cover	117U1027
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Model

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Optimization + standard conditions

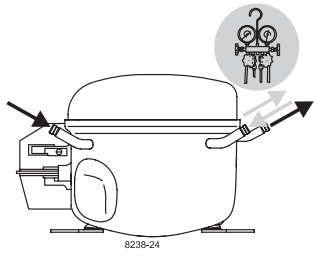
R404A, 115V/60Hz, CSIR, fan 3m/s, UL

	pe	pc	RGT	Tliq	Cooling capacity	COP	EER	P1	I	Ref. mass flow	
	[°C]	[°C]	[°C]	[°C]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
	[°F]	[°F]	[°F]	[°F]	[Btu/h]	[W/W]	[kcal/h]	[W]	[A]	[kg/h]	
ASHRAE LBP	-23	54	32	32	271,6	1,19	233,7	228,0	2,84	6,33	
	-10	130	90	90							
cecomaf LBP	-25	55	32	55	184,9	0,85	159,1	218,3	2,77	5,78	
	-13	131	90	131							
EN12900 LBP	-35	40	20	40	147,3	0,94	126,8	157,5	2,40	4,00	
	-31	104	68	104							
ARI540 LBP	-23	49	4,4	49	200,7	0,91	172,7	220,2	2,79	7,10	
	-10	120	40	120							
AHAM LBP	-23	41	32	32	302,2	1,41	260,1	213,7	2,76	7,04	
	-10	105	90	90							
opt	-35	45	32	45	137,0	0,87	117,9	157,1	2,38	3,66	
	-31	113	90	113							

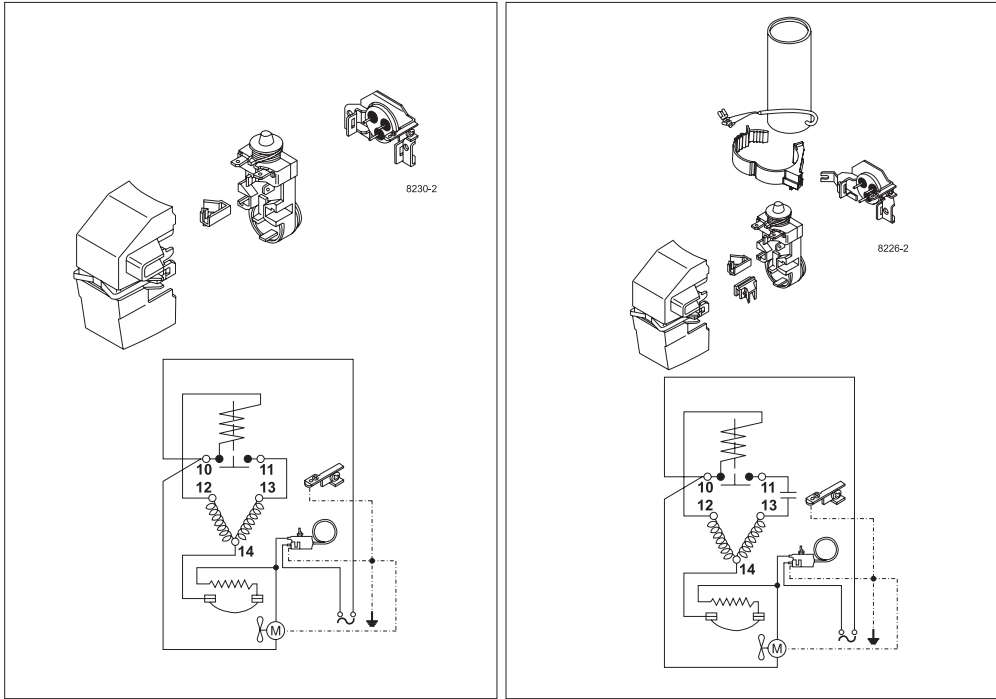
Performance tables

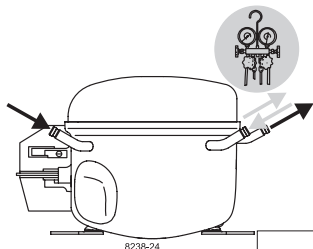
R404A, 115V/60Hz, CSIR, fan 3m/s, UL

	pe	Cooling capacity			COP	EER	P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-45	-49	70,4	240	0,63	2,16	111,3	2,22	1,87
cond. pressure	-34	-30	141,5	483	0,89	3,03	159,7	2,39	3,78
pc= 45/113	-29	-20	191,7	655	1,03	3,51	186,5	2,55	5,15
return gas temp.	-23	-10	252,3	862	1,17	3,98	216,5	2,77	6,82
RGT= 32/90	-21	-5	287,0	980	1,23	4,20	233,2	2,90	7,78
liquid temp	-15	5	365,5	1248	1,35	4,61	271,0	3,19	9,98
Tliq= 45/113	-7	20	508,3	1736	1,49	5,08	341,5	3,72	14,08
[°C / °F]	-45	-49	45,0	154	0,45	1,55	99,4	2,18	1,38
cond. pressure	-34	-30	107,4	367	0,66	2,27	161,7	2,41	3,32
pc= 55/131	-29	-20	150,1	513	0,77	2,64	194,3	2,60	4,67
return gas temp	-23	-10	201,2	687	0,88	3,00	229,0	2,85	6,30
RGT= 32/90	-21	-5	230,3	787	0,93	3,18	247,7	2,99	7,24
liquid temp	-15	5	296,4	1012	1,03	3,51	288,6	3,31	9,40
Tliq= 55/131	-7	20	416,8	1424	1,15	3,93	361,8	3,89	13,44

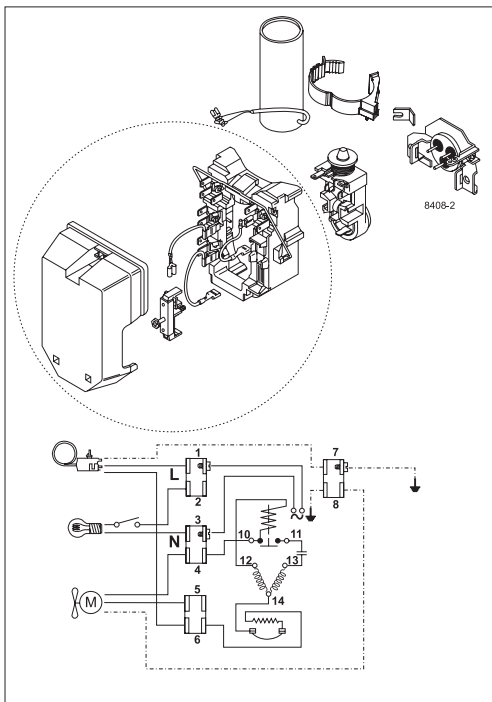
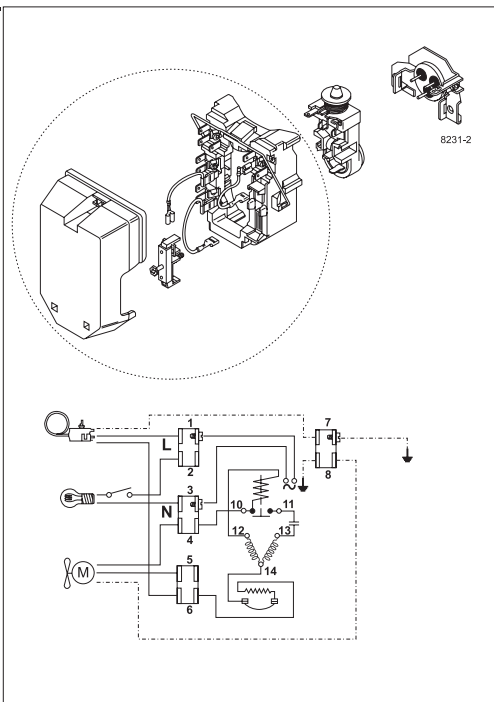


TF Compressors





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