GL50AA.02

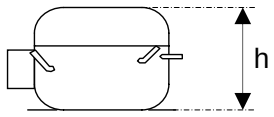
PRODUCT SPECIFICATION

OPERATION:

Application:	L.B.P.	Max. Ambient Temp:	43°C
Refrigerant:	R134a		
		(1) Max. Steady Discharge Temp:	120°C
Operation:	Capillary	(1,2) Max. Peak Discharge Temp:	135°C
Cooling:	Static	Max. Steady Condensing Temp:	60°C
		(2) Max. Peak Condensing Temp:	70°C
		Max. Winding Temp:	130°C
		Max. Impurities:	30 mg
		Max.Total Compressor Water Content:	100 mg

COMPRESSOR:

Displacement:	5.46 cc	Oil Type:	Ester
Bore:	20.88 mm	(4) Viscosity:	15 cSt
Stroke:	14.94 mm	Suction Muffler:	Semi-direct
(3) Net Wt:	8,9 kg		
Case Size:	2 (h = 175 mm)		
Oil Charge:	210 cc		



ELECTRICAL:

Power Supply:	220 - 240V	Motor Type:	RSIR / RSCR *
Voltage Limits:	187 - 264V		
Frequency:	50 Hz	Locked Rotor Current:	8.5 / 4.0 A**
Phase:	1 ph		
		Main Winding Resistance at 25°C:	22.8 Ω
		Start Winding Resistance at 25°C:	27.1 Ω

* *With Optional Run Capacitor*

** *Maximum current / Measured after 4 seconds*

(1) Measured 5cm. from the shell with insulated thermocouples

(2) For transient conditions during 'Pull Down'

(3) Net weight is with oil but without electrics

(4) Measured at 40°C

For rated performance, the suction line must be connected to the stub marked 'AS' on the attached drawing.

ELECTRICAL COMPONENTS:

ECC Starting Device:	K 100-xx	*-xx Protector short code*	
Starting Device:	PTC- 8100	UH Starting Device:	PTC- 3003-x
(1) Starting Device:	PTC - 7100DF	UH PTC Resistance:	14 Ω
PTC Resistance:	14 Ω	Alt. UH Starting Device:	PTC- 3001-x
Run Capacitor:	3.0 µF	*-x PTC code for different contact versions*	

PROTECTORS:	**BDG ¾**	**Electrica ¾**	**SENSATA ¾**	**SENSATA 4TM**
Type	**AE 37 FU x**	**T 0453 / xx**	**MRP 318LZ xxxx**	**4TM 205 NFBYY xx**
Open °C	115 - 125 °C	120 - 130 °C	115 - 125 °C	115 - 125 °C
Close °C	71 - 53 °C	70 - 52 °C	70 - 52 °C	70 - 52 °C
U.T.C	1.50 A 70 °C	1.46 A 70 °C	1.52 A 70 °C	1.54 A 70 °C
Time Check Current	5.90 A	5.20 A	5.90 A	6.0 A (5-15s)
Max. Current	13.0 A	8.0 A	13.0 A	13.6 A (2s max.)
Code (if any)	FH	C7	T1	6B

Type				
Open °C				
Close °C				
U.T.C				
Time Check Current				
Max. Current				
Code (if any)				

Alt. protectors:	AF 37 FU x	MSP 318LZ xxxx
Code (if any)	DF	

Sensata 'xxxx' Codes: *3201 for terminal boards Mod.89,90*
3166 for terminal board Mod.91
3178 for UH protector with 6.3mm fast-on
3175 for UH protector with M3.5 screw

Electrica 'xx' Codes: *74 for terminal boards Mod.89,90*
26 for terminal board Mod.91
24 for UH protector with M3.5 screw
25 for UH protector with 6.3mm fast-on

Sensata 4TM 'xx' Codes: *.. for different contact versions*

BDG 'x' Codes: *6 for terminal boards Mod.89,90*
8 for terminal board Mod.91
4 for UH protector with 6.3mm fast-on
5 for UH protector with M3.5 screw

4TM protectors are for use with UH and ECC terminal boards only.

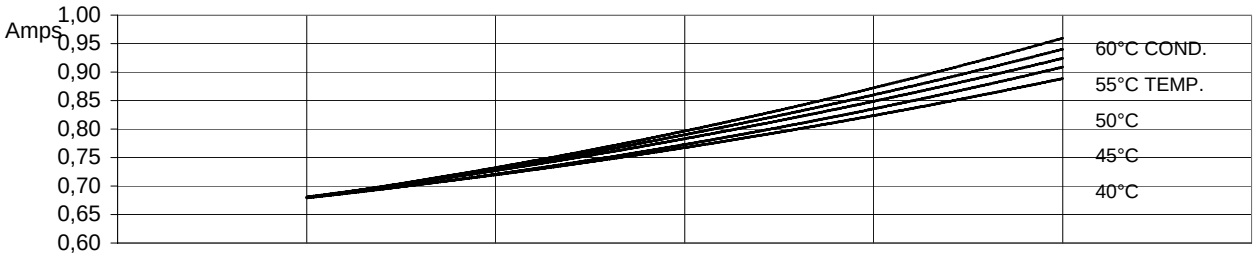
Protectors with M 3.5 screws can be used on UH electric housings type SP-1454 (with connection board) and SP-1821 (without connection board). See drawings ELECTRICAL ASSEMBLY (FOR UH) number FTC15;16;17;18.

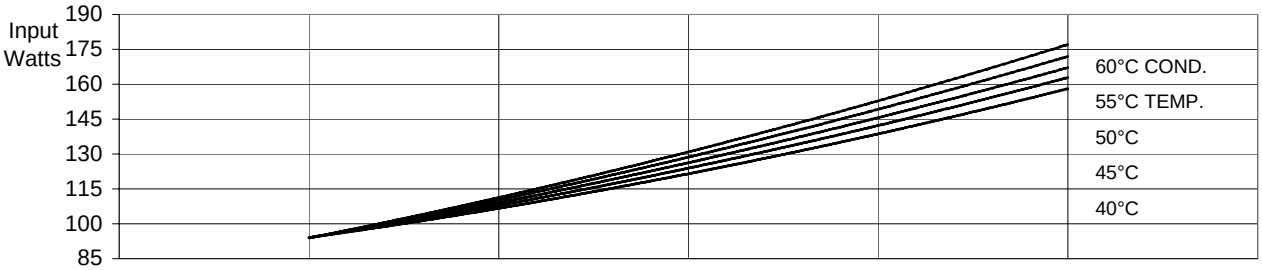
¾ protectors with 6.3mm fast-on can only be used on UH electric housing type SP-1821 (without connection board).

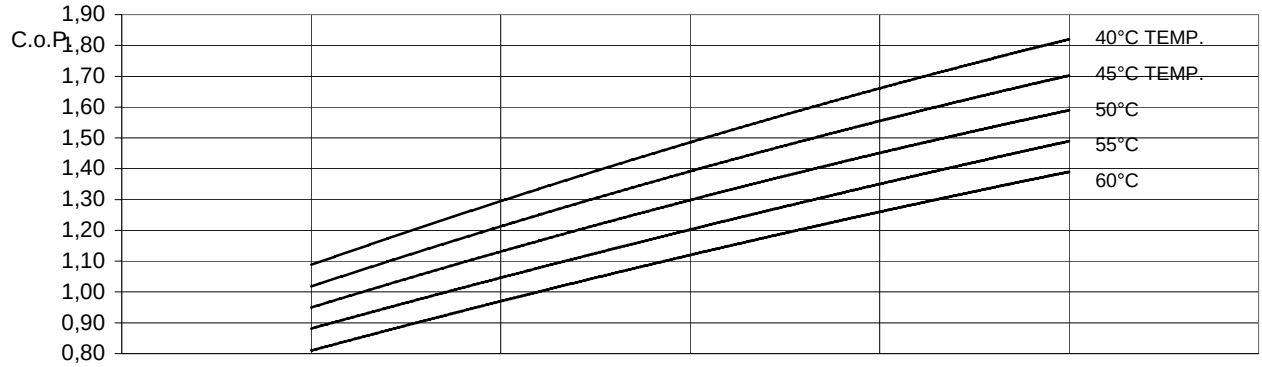
PERFORMANCE:

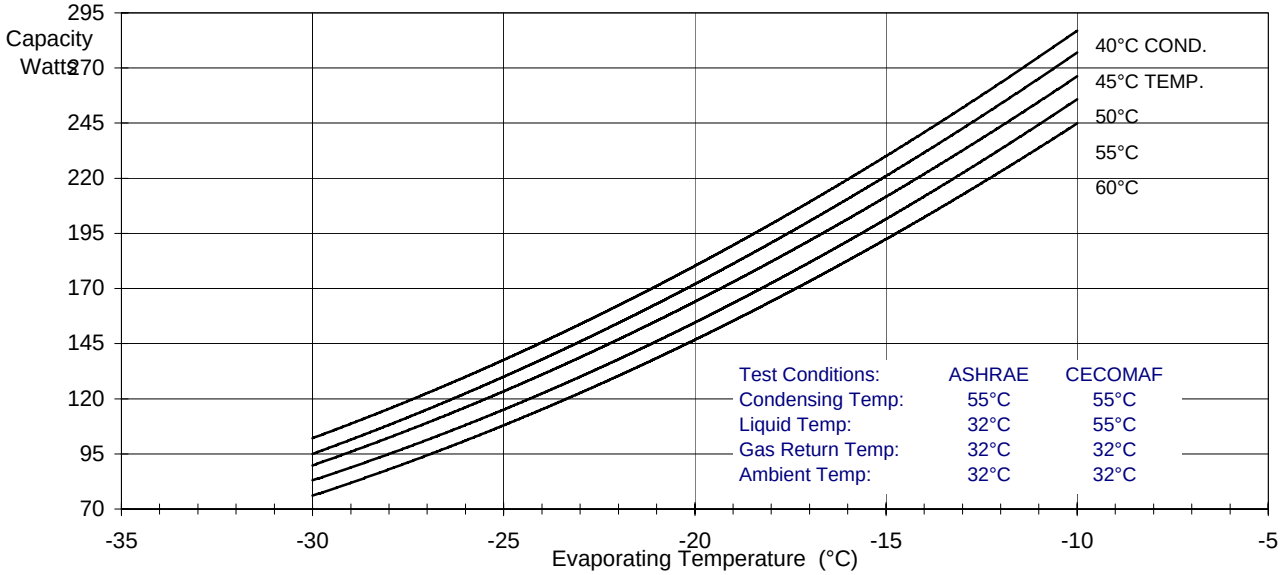
(Graphs are at ASHRAE conditions)

220V 50Hz Without run capacitor



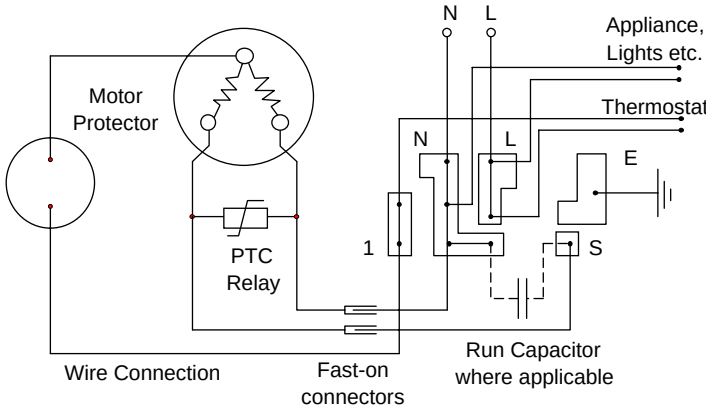




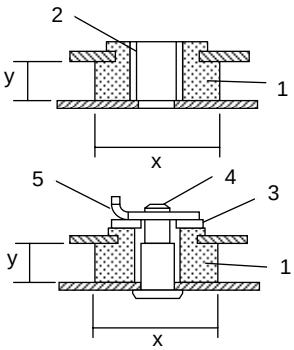


	Evaporating Temperature	°C	-30	-25	-23,3	-20	-15	-10
ASHRAE:	Capacity	W	83	115	128	155	201	256
	C.o.P.	W / W	0,88	1,05	1,10	1,20	1,35	1,49
CECOMAF:	Capacity	W	67	94		126	164	208
	C.o.P.	W / W	0,71	0,85		0,98	1,10	1,21
	Input Power	W	94	110	116	129	149	172
	Current	A	0,68	0,73	0,75	0,79	0,86	0,94

Circuit Diagram for Mod.90 Terminal Board



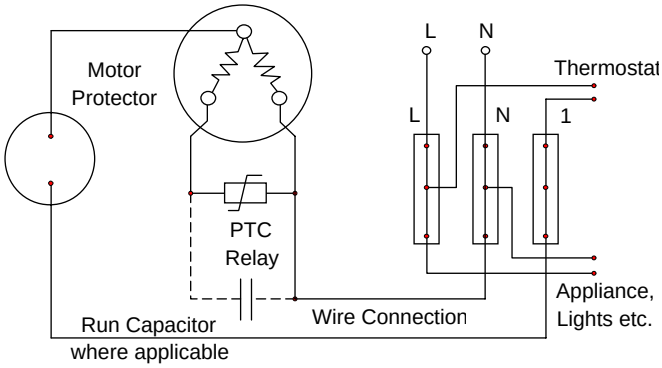
Mounting Accessories



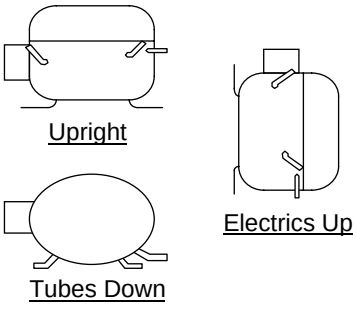
x = 26mm or 28.5mm
y = 9mm or 10.3mm
Other sizes available

1. Rubber grommet
2. Sleeve
3. Washer
4. Steel pin
5. Clip

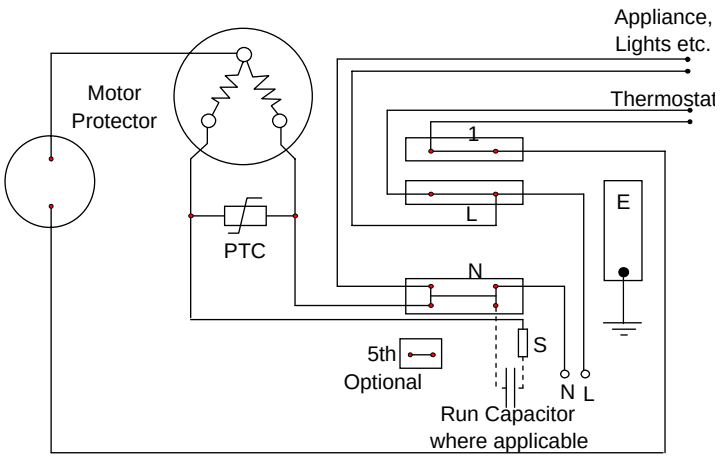
Circuit Diagram for U.H. Terminal Board



Recommended Transport Positions when fitted into appliances



Circuit Diagram for ECC Terminal Board Frontal Version



Compressor Label