

P45 Series

Lube Oil Pressure Cutout Control (With Time Delay)



P45NCA

Description

The P45 control provides dependable, low lube oil pressure protection for refrigeration compressors. The factory set pressure setting provides operation to the compressor manufacturer's specification. A built-in time delay relay, compensated for ambient temperature, allows for pressure pick-up on start and avoids nuisance shutdowns on short duration pressure losses during the running cycle.

Specifications

· for all non-corrosive refrigerants.

Electrical Rating – Pilot Duty

Time Delay Heat Circuit	Pilot Duty			
120 / 240 VAC	750 VA, 120 / 240 VAC			

Features

- · universal mounting
- trip-free manual reset
- ambient compensated time delay

Accessories

These controls are supplied without mounting brackets. If brackets are required, order kit number BKT38A-600R, which contains five 271-51 angle mounting brackets with screws.

Applications

- · Semi-hermetic Compressors
 - The P45 control measures net oil pressure available to circulate oil through the lubrication system. (Net oil pressure is the difference between oil pump pressure and the crank case pressure.)

To Order

Specify the code number from the following selection chart.

Selection Chart

Code Number	Time Delay ^(a)	Heater Circuit VAC	Type of Reset	Maximum Bellows Pressure, psig (kPa)	Factory Setting, psig (kPa)	Pressure Con- nection	
Copeland Compressors							
▲ P45NCA-12C (b)	120 sec.	120/240	Manual	425 (2390)	9 (62) ^(c)	36 in. Cap. with 1/4 in. Flare Nut	
P145NCA-12C (d)						Style 5	
P145NCB-12C (e)	_						
Carlyle Compressors							
▲ P45NCA-82C ^(f)	45 sec.	120/240	Manual	425 (2390)	6.5 (45) ^(g)	36 in. Cap. with 1/4 in. Flare Nut	
P145NCA-82C (h)						Style 5	
P145NCB-82C (i)							

- (a) Relay is not field-replacable
- (b) Replaces Ranco P30-5826
- (c) Switch differential is approximately 5 psi (34 kPa). Time delay relay energizes at 9 psi (61 kPa) pressure difference, de-energizes at 14 psi (97 kPa) difference.
- (d) Replaces Ranco P30-5827
- (e) Replaces Ranco P30-5827 (Includes alarm wire)
- (f) Replaces Carlyle/Carrier Part No. HKCA-500, 6342050
- (g) Switch differential is approximately 4.5 psi (34 kPa). Time delay relay energizes at 6.5 psi (45 kPa) pressure difference, de-energizes at 11 psi (76 kPa) difference.
- (h) Replaces Carlyle/Carrier Part No. HKCA-500, 6342050 with 36" SEC99A UltraCap
- (i) Replaces Carlyle/Carrier Part No. HKCA-500, 6342050 with 36" SEC99A UltraCap (Includes alarm wire)