Mbsm.pro , تأمين الأجهزة , Lockout Tagout, المعدات الكهربائية, نظام المهنية

Category: Arabe, Développement, Technologie written by Lilianne | 23 April 2019



PictureS Mbsm Dot Pro : WWW.mbsm.pro



.غلق بمشبك قابل للطيي، مما يسمح لستة أقفال لقفل جهاز واحد أو القفل والعلامة هو إجراء أمان يستخدم في إعدادات الصناعة والبحث للتأكد من أن الآلات الخطرة مغلقة بشكل صحيح ولا يمكن تشغيلها مرة أخرى قبل الانتهاء من أعمال الصيانة أو الإصلاح. يتطلب الأمر عزل " <mark>مصادر الطاقة الخطرة</mark> وجعلها غير صالحة للعمل" قبل بدء العمل في المعدات المعنية، يتم بعد ذلك قفل مصادر الطاقة المعزولة ووضع علامة على القفل تحدد العامل الذي وضعه، عندها يمسك العامل بمفتاح القفل ، مما يضمن أنه فقط هو أو هي قادر على إزالة القفل وبدء تشغيل الجهاز. هذا يمنع بدء التشغيل العرضي لجهاز ما عندما يكون في حالة خطرة أو عندما يكون العامل على اتصال مباشر

في مختلف الصناعات كوسيلة آمنة للعمل على المعدات الخطرة Lockout-tagout يستخدم .ويفوضه القانون في بعض البلدان

mbsm.pro , Compresseur Aspera Embraco , NEK2168GK , R404a/R507 , LBP ,3/4 HP, nominal output: 707 W

Category: Technologie, Tester ok written by Lilianne | 23 April 2019

EMBRACO is a company specialized in cooling solutions and world leader in the hermetic compressor market. Our mission: provide innovative solutions for a better quality of life, always

attentive to technological excellence and sustainability.

Technological leadership, operational excellence and sustainability are some of the pillars

which ensure the EMBRACO differential over other companies in the world market.

products are now considered the favorite leading home appliance manufacturers by major

automakers and are spotlighted by manufacturers of commercial refrigeration equipment.

With global operations and production capacity exceeding 34 million units a year, the

company offers solutions that are differentiated for their innovation and low energy

consumption. Its 11.500 employees work in factories and offices located in

Brazil

(headquarters), China, Italy, Slovakia, Mexico, the United States and Russia. Energy efficiency is constantly sought in the processes, products and relationships with

the communities where it operates. Our company is the absolute leader in this segment,

being able to offer products that meet the most restrictive international standards

regarding energy consumption.

As a worldwide leader, EMBRACO tries to anticipate market changes, and in doing so, our

company is in a state of permanent transformation. We continuously assess our processes

in order to maintain our leadership within the industry and promote growth, without

forgetting the pillars of our organization.

Compressor ASPERA NEK2168GK | NEK 2168 GK

Refigerant	R404/R507		
Working range[stC] LBP	-40 to -10		
Nominal capacity [W] (evaporating temperature -23,3C, Condensing temperatur +54,4C)	688		
Power supply	220-240V 50Hz		
Engine type	CSIR		
Displacement [cm³]	14,28		
Weight [kg]	11,6		

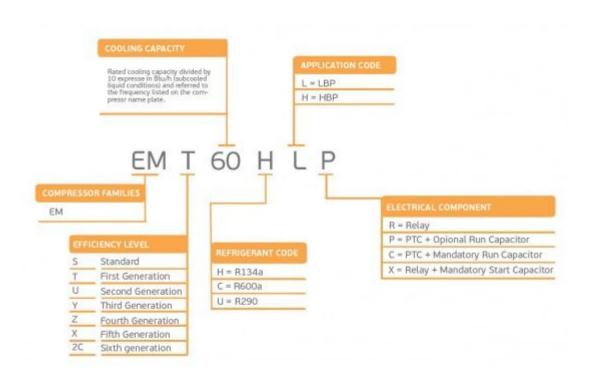
Evaporating temperature +55 C

Evaporating Temperature	Canacity	Power Consumption +/-5%	Current Consumption +/-5%		+/-7%			
°C	(kcal/h)	(W)	(Btu/h)	(W)	(A)	(kg/h)	(kcal/Wh)	(W/W)
-40	226	263	897	370	3,46	6,01	0,61	0,71
-35	309	359	1.224	435	3,57	8,22	0,71	0,82
-30	413	481	1.640	506	3,73	11,06	0,82	0,95
-25	541	629	2.146	584	3,95	14,52	0,93	1,08
-20	691	803	2.740	668	4,21	18,64	1,03	1,20
- 15	863	1.004	3.424	759	4,53	23,43	1,14	1,32
-10	1.058	1.230	4.197	856	4,90	28,92	1,24	1,44

Refrigerant: R404A, R507

	R404A / R507									
	LBP	VOLT. FREQ.	COOL. CAP. [W]	DISPL. [cc]	мвр	VOLT. FREQ.	COOL. CAP. [W]	DISPL [cc]		
	NEK2117GK	А	125	4,51	NEK6144GK	A	550	4,51		
NE NEK	NEK2121GK	Α	151	5,44	NEK6165GK	A	743	6,20		
	NEK2125GK	Α	182	6,20	NEK6181GK	A	841	7,28		
	NEK2130GK	Α	213	7,37	NEK6210GK	A/N	1.005	8,77		
	NEK2134GK	A/N	248	8,77	NEK6213GK	A	1.337	12,11		
	NEK2150GK	Α	329	12,11	NEK6217GK	A/N	1.164	14,28		
	NEK2168GK	А	378	14,28						
	NEK2172GK	С	819	16,80						

PictureS Mbsm Dot Pro : www.mbsm.pro



PictureS Mbsm Dot Pro : WWW.mbsm.pro

embraco NEK



R404A

LBP

PictureS Mbsm Dot Pro : WWW.mbsm.pro



PictureS Mbsm Dot Pro : WWW.mbsm.pro

mbsm.pro , Compresseur Aspera , Embraco NEK2168GK , R404A , LBP ,3/4 HP Compresseur hermetique de Aspera — Embraco NEK2168GK — R404A $3/4\ HP$

220-240V 50 Hz

Cylindrée = 14.3 CM3 APPLICATIONS = LBP

Moteur type: CSR

www.mbsm.pro , when capacitor explodes , Pictures

Category: Pictures, Technologie, Tester ok written by Lilianne | 23 April 2019

A capacitor is a device used to store an electric charge, consisting of one or more pairs of conductors separated by an insulator.

Unexpectedly the electrolytic capacitors explodes with huge sound and sometime it smoke.

Get started , how to explode a capacitor ???

All capacitors have a maximum voltage and their destruction depends upon the internal construction. Explosions are understood only by delving into the internal construction of electrolytic capacitors — the primary culprit.

Most small value capacitors are simple sandwiches of conductor and insulator and

when the voltage exceeds the dielectric strength of the insulation, they short out and burn, crack, pop, open, or smoke. Explosions are rare for these. Popping open is more likely. Their failure is self evident either visually or by failure to function in the circuit.

Most large value capacitors in order to be as small in physical size as possible, have to get the conductive plates of the capacitor as close together as possible and at the same time not so small that the voltage rating is impractical.

It is for this reason that the family of electrolytic capacitors was developed. The trick they use to get high capacity with small separations and reasonable voltage is that they use the "anodizing" of chemical electrolysis on one surface and a water based electrolyte for the other surface. Take one apart and see. Notice that when a conductive metal is "anodized" by electrochemical process it turns into a dull film that is rather tough and is an insulator. This means that the actual conductive plate of the capacitor has this film entirely between itself and the other plate.

Then the other plate uses a trick too. There's a water base solution soaked into a paper separator. Now if there was no water, the paper would be the dielectric of a normal capacitor separating the plates. But not here. Here the water has an alkali added to become a fair conductor. And as a liquid it soaks right into the surface structures of the capacitor. So it's not the paper thickness at all — and not even the insulating surface on the other plate, but the inner recesses of the anodized surface that determine the dielectric distances.

So the operating voltage that a capacitor can tolerate depends upon how thick this anodized film is. And that is a function of it's manufacture. Now there is a most useful characteristic that tells us we are nearing the max voltage, called leakage.

Here is a way you can check this out. Put in series, a test electrolytic capacitor (polarize it correctly), a variable power supply, a microammeter, and a 1 meg resistor (to limit and protect the meter). From zero as you increase the voltage there will be no current initially, then as you approach the spec op voltage, there will start a small leakage current. Since you have a limiting resistor here, you can increase the voltage without damage. continuing to increase the voltage discovers an increasing leakage current. It is a matter of practice how much safety you apply between the rating and the actual voltage of the circuit.

You can now see how it is that an electrolytic capacitor fails, it is not a voltage breakdown of the dielectric material, but the increase of leakage current that is troublesome. A rising leakage means heat which will boil the water and make steam — that's the explosion process.

This is explosion as occasional failure of the few. But there is a more spectacular explosion process — it's explosion by mistake — namely being installed backward. In such a case, the anodizing chemistry is reversed and rather rapidly, the anodized film starts to reverse, and quickly thins out at a weak spot in the rather large effective film area of the capacitor. Then we have short circuit currents and steam generation rather quickly. This sort of explosion usually fills the space (the casing or the whole room if exposed) with little shreads of aluminum foil and alkali soaked paper.

This insightful solution is most successful to achieve capacitors with large values in small spaces, but has a lot of lesser characteristics as the price to

pay.

The worst limit, is storage. Electrolytic capacitors store very poorly, and the voltage rating can reduce substantially as the internal chemistry deteriorates. Some equipment manufacturers recommend that capacitors stored for a few years have their inner anodizing conditions restored by simply putting them to the spec voltage for a day to restore full spec.

At the least, if you replace capacitors with old stock, and it didn't explode when power was restored, be aware that it may not reach it's spec capacity value for a few hours. A capacitor in use will always be maintained by the voltage in the circuit you use it in.

When electrolytics are used without the circuit supplying a maintenance voltage to keep the anodized film that all depends upon, such as in speaker cross over applications that have no sustaining DC, then the values of the capacitor will deteriorate at least at storage rates, and if AC currents are substantial, even faster.

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