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ELECTRIC ENGINES AND RUN THE DURATION OF THE BLOW-OUT PROTECTION FROM BRAKE DISTRIBUTION AND STATUS

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Annotasiya: The analysis in this article was to work out the operation of electrical equipment and conditions sabali. Assess the technical condition of electrical equipment, the effective use of them is the main factor for the increase of production efficiency and increasing reliability was noted.The duration of protection from electric engines run in run mode the system works and the status of the norms established under downloads cannot launch more than shows.

Keywords: technological process, an electric motor, emergency, operation, inter-phase circuit, the resistance of the insulator, the blow-out or brakes.

To ensure the economic stability of the country and it is becoming an important issue in the development of the world. As a result of the introduction of innovative technologies and the introduction of improvement to improve the quality and volume of production is closely related to energy resources. A few years ago, the technologies available now, with overall gdp growth of the state in general to serve in the labor market and the distribution and development have also been affected. World energy resources and energy saving equipment in the field of effective use of the results of scientific research shows that increased the production capacity of electric energy to meet the growing demand through how to spend it in vain let's impossible, but their efficient use of electrical energy and energy saving equipment results.The duration of protection from electric engines run more than the established norms in run mode the system works and cannot under downloads to note is designed for the launch condition.

The duration of protection from the protection system is installed, run time (I $t_{p.uu.m}$) the launch of vine, check out the value of set ($I_{uuu.m}$) with the maximum in the network, vine (I_{max}) based on the principle of vine or compare compare $I_{max}^2 \ t > I_{uuu.m}^2 \ t_{p.uu.m}$ (impulse heat is) is performed.

Here the following characters are used:

I_{max} – the maximum value of the phase of the vine;

$I_{uuu.m}$ – launch the installed cost of the vine of (0.1-4) $I_{ном}$;

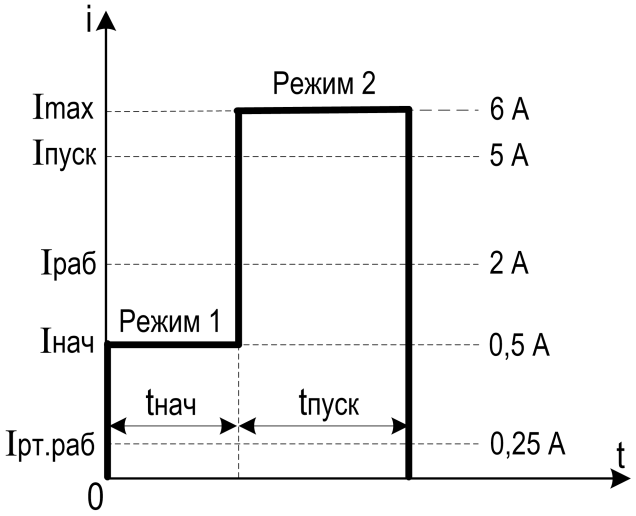
$t_{p.uu.m}$ – elektromotorning the time that was allowed to run, (0.2-200)s;

t – electric engine down to check out your work the current time, c.

The duration of protection from the electric engine's run tool “impulse heat”maximum shock protection with the calculation carried out in relation to the electric load capacity and fuller and it is taken into account that gets your engine $I_{max}^2 \ t$ is. As it is known, the electric engine is of the vine of waste heat to proportsional kvadrati.

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Electric motor blow-out in case of engine braking can be left on the launch of two year rotational frequency when working with your electric or normal stand. Check out his work in both cases is equal to the vine so that elektromotorning down to consume directly, ie mode will remain in tutashish short elektromotor. Elektromotor blow-out of the stator will cause the brakes to heat up cho'g'amlarining stay on the condition of any given year. Elektromotor's work in normal mode, blow-out and blow a stream crosses superimposed rotating magnetic cho'lg'amlarini flat-out heated. The blow in the loss of any one phase voltage cut-out to generate the magnetic flow fluctuations in passing, as a result, direct and reverse sequence of the vine, the blow-out of the system and brings the occurrence of interaction appear and begin to heat up. I_{max} t brake mode run mode from working on kriteriyasi elektromotorni protection regime for the effective in the transition to the electric motor is put into operation. Vine to launch your electric engine electric engine that is used in the check in terminal mode of the model's launch is given to the vine in the form of (1.1-picture). Thus, to launch its electric engine set parameters that are taken.



1.1-picture. **M engine of the vine to launch your electricfeel at the adI**

Mode 2 for $I_{\max}(6A) > I_{ш.т}(5A)$ the vine set, including the launch of this mode electric fits your engine. Mode 2 launched's time to dive in ($I_{ш.т}$), that is set on the basis of the results of the comparison of this time associated to the launch of the electric engine can be effective or ineffective. t_{pusk} your engine time to launch electric means, that is, in this time $I_{\max} > I_{ш.т}$, the disparity is stored. So, instead of pusk be increased as set at fluent vine vine pog'onali change from mode 1 and mode 2 are used. Sekundomer-registrar stand mode when the screen after you stop work in a short period of time after the launch rele sekundomer and the total time in that $t=0$ moment it seems sekundomer stop before that time, then the screen mode for the second time, that $t = t_{бош}$ moment from that time it seems to stop before sekundomer. So from the moment you start to work for a final time to take down the $I_{\max}$ t eye run on: run the program to determine the duration of the vine (I) and time (t), is set.

1-run (to be launched with samar electric engine):

1-run parameters,the set of s (1.1-table). Thus, the o'chirgich “delete” and sekundomer-registrarselect the “run” mode is set. The results of your run will be recorded.

Table 1.1

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$I_{\max}$ t **run the engine on the criteria's electric** $t_{р.ши.т} = 6c$

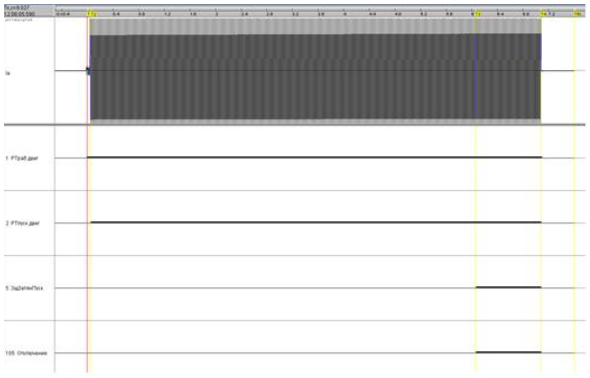
The duration of the run time, the second				Mode,	the results of run
n	the beginning of a	run	going the brakes on average		
$t_{бош}(4c) < t_{р.ши.т}(6c)$					
1	60	4	5	60s <100 to enter the value of the vine in the time $I_{ши.т}$ dimension is	ineffective
$t_{бош}(7c) < t_{р.ши.т}(6c)$ 6 s Erased.set more time $t_{р.ши.т}$ later is carried out					
2	60	7	5	60s <100 s in time the value of the incoming vine $I_{ишт}$ size is	Ineffective ($t_{ўр} = 6{,}025c$)
	60	7	8		

2 and 3-launch (Electric ineffective to be launched on your engine):

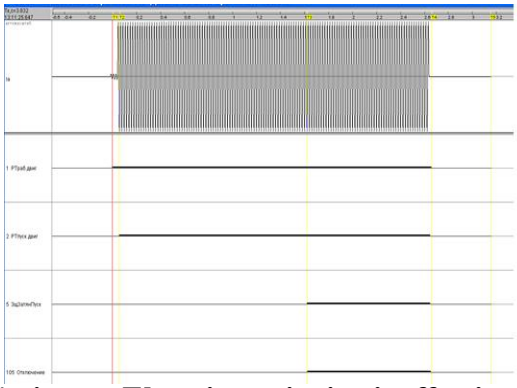
2-run parametersset s, then 3-run parameters,the set s is (1.1-table). O'chirgich the “delete” and sekundomer-registrarselect the “run” mode is set. The results of your run will be recorded (1.1-in the table).

2 and 3-launch blow-out fights differ from each other by the time of the launch of brake distribution and protection tools. Thus, $t_{ўр.мор.} < t_{р.ши.т}$ and $t_{ўр.мор.} > t_{р.ши.т}$ in the condition protection device blow-out in the mode of the distribution and brake, but not the electric motor mode, the duration of your run will launch.

Be the launch of your electric engine inefficiency, that is, time and time interval be at the launch of the means of protection ossillogramma quotes (1.2 and 1.3-pictures). It $t_{ши.т}(7c) > t_{р.ши.т}(6c)$ is the second time in 6 “to launch the” protection mode will launch.



1.2-picture. **Electric engine've ineffective** $I_{\max}$ t **on the criteria)to launch ossillogrammasi**



1.4-picture. **Electric engine've ineffective** $I^2_{\max}$ t **on the criteria) to launch ossillogrammasi**

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Таблица интервалов времени - Файл: 140d2830.dfr

Курсор Ti	T1	T2	T3	T4	T5
t относ-но пуска, с	0.000	0.057	1.620	2.658	3.150
t астрономич., ч:м:с.мс	13:11:21.815	13:11:21.872	13:11:23.436	13:11:24.474	13:11:24.966
t (Ti) - t (T1) , c	0.000	0.057	1.620	2.658	3.150
t (Ti) - t (T2) , c	-0.057	0.000	1.563	2.602	3.093
t (Ti) - t (T3) , c	-1.620	-1.563	0.000	1.038	1.530
t (Ti) - t (T4) , c	-2.658	-2.602	-1.038	0.000	0.492
t (Ti) - t (T5) , c	-3.150	-3.093	-1.530	-0.492	0.000


Таблица интервалов времени - Файл: 140d2740.dfr

Курсор Ti	T1	T2	T3	T4	T5
t относ-но пуска, с	0.000	0.053	6.053	7.075	7.597
t астрономич., ч:м:с.мс	12:05:56.563	12:05:56.617	12:06:02.617	12:06:03.639	12:06:04.160
t (Ti) - t (T1) , c	0.000	0.053	6.053	7.075	7.597
t (Ti) - t (T2) , c	-0.053	0.000	6.000	7.022	7.543
t (Ti) - t (T3) , c	-6.053	-6.000	0.000	1.022	1.543
t (Ti) - t (T4) , c	-7.075	-7.022	-1.022	0.000	0.522
t (Ti) - t (T5) , c	-7.597	-7.543	-1.543	-0.522	0.000

1.3-picture. **Electric engine've ineffective $I_{\max}$ t on the criteria) to launch the table of the time interval**

1.5-picture. **Electric engine've ineffective $I^2_{\max}$ t on the criteria) to launch the schedule of the time interval**

$I^2_{\max}$ t the criteria on the engine's electric run:

4-launch (to be launched with samar electric engine):

4-run parameters,the set of s (1.1-table).

5-10-run (ineffective electric engine to be launched):

5-10-run parameters,the set of s (1.2-table).

The results of your run, in particular the protection of svetodiodlarning time to launch and the time of burning will be recorded. In this table according to the results of the launch, the launch of hisobiy and experience in the time specified.

Table 1.2

$I^2_{\max}$ t run the engine on the criteria's electric

$I_{ши.т}=5A,\ I_{\max}=8A,\ t_{ши.т}=20c$				$I_{ши.т}=5A,\ t_{р.ши.т}=6c,\ t_{ши.т}=10c$			
Run order number	5	6	7	launch order number	8	9	10
$t_{р.ши.т},c$	5	10	15	$I_{\max},A$	7	8	10
$t_{ўр},c$ (account)	1,95	3,9	5,86	$t_{ўр},c$ (account)	3,06	2,34	1.5
$t_{ўр},c$ (experience)	2,024	4,024	6,16	$t_{ўр},c$ (experience)	3.3	2,42	1,59
Error, %	3,6	3.1 manuals	5,12	Error, %	7,8	3.4 at	6

Be the launch of your electric engine inefficiency, that is, time and time interval be at the launch of the means of protection ossillogramma quotes (1.4, and 1.5-picture). It $t_{ши.т}(5c)>t_{р.ши.т}(6c)$ is the second time in 6 “to launch the” protection mode will launch.The next launch from the launch of the electric motor then you work a fixed number of members soatdagi launch”to run if the electric engine's tenglab is forbidden. The next stages which allowed the launch of the electric engine's time $t=60\text{min}/n$ (thus, n a fixed number of members soatdagi launch) is determined by the formula.To speed up the process for a fixed number of members equal to 20 soatdagi launch that you will receive.

You launched but not limited to the number of the members is provided without engine power can run.

As I can conclude,arising unexpectedly or emergency maintenance and repair of equipment for the elimination of necessary spare parts for the purpose of ensuring the availability of a systematic approach to the implementation of reliable spare parts stocks can create and style the algorithm was developed. Ethe emergency equipment on the other side of the main factors and assessment of their technical condition based on the analysis of the position, which was identified to work out the reason for the main diagnostic parameters and efik kspluatasiya term effects of parameters is based on is included as a new parameter and its necessity. Eequipment safe on the other side of the system of showing the negative effects of these affairs azerbaijanis ekspluatasiya the term of the useful work to effect koeffitsenti diagnostic diagnostic diagnostic mutual dependence on the parameters of the improved method and the algorithm developed and matrisa technique was developed. Ishonliligini predicted that it would increase the operation of electrical equipment and work out 3-4 times as a result of the reduction of electrical equipment and the reliability and decrease the stop time stand 7-11% increase created.

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