

**ژنراتور : Mecc Alte**

**موتور دیزل : LOVOL-china**

Standby		Prime		دیزل ژنراتور
KVA	KW	KVA	KW	
41	33	37.5	30	



### موتور دیزل

Manufacturer	LOVOL-china	تولید کننده
Type	1004G	تیپ
Number of cylinders	4	تعداد سیلندر ها
Cylinder arrangement	in-line	آرایش سیلندر ها
Displacement , Liters	3.99 liters	جا به جایی
Bore × Stroke , mm	100mm×127mm	قطر سیلندر × کورس پیستون
Fuel Consumption	210≥	مصرف سوخت
Combustion System	direct injection	سیستم احتراق
Aspiration	Natural	سیستم تنفس
Rotation	Counter-clockwise – viewed from flywheel side	چرخش
cycle	4-storke	سیکل
Configuration	water-cooled	پیکر بندی
Max. ambient temperature	50 ° C	ماکزیمم دمای محیط
Dimensions mm	1253×706×946	ابعاد
weight	540	وزن

### ژنراتور

Manufacturer	Mecc Alte	تولید کننده
Type	ECO32-2S/4	تیپ
Frequency, Hz	50	فرکانس
Voltage, V	380	ولتاژ
Excitation	2.1	سیستم تمریک
Stator windings	12 ends	سیم پیچ استاتور
Regulation	$\pm 1\%$ with any power factor and speed variations between $-5\%$ $+30\%$	تنظیم ولتاژ
Rotor	With damping Cage	روتور
Over speed, Rpm	2250	مداکثر سرعت مجاز
Short circuit current	$>300$	جریان اتصال کوتاه
Insulation class	H	کلاس عایق
Protection class	IP21	کلاس حفاظتی
Cooling air volume, m <sup>3</sup> / sec	11.8	دبی هوای فنک کننده
Standby power at rated voltage, KVA	35	توان standby در ولتاژ نامی



**GENERATOR TYPE ECO 32-2S/4**

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<b>Electrical Characteristics</b>										
Frequency	Hz	50				60				
Voltage (series star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	35	35	35	28	41	42	42	42	
	kW	28	28	28	22,4	32,8	34	33,6	33,6	
Rated power class F	kVA	33	33	33	26	39	40	40	40	
	kW	26,4	26,4	26,4	20,8	31,2	32	32	32	
Regulation with	DSR	±1 % with any power factor and speed variations between -5% +30%								
Insulation class		H								
Execution		Brushless								
Stator winding		12 ends								
Rotor		with damping cage								
Efficiencies class H	4/4	%	88,1	88,2	87,9	87,7	89,1	89,6	89,7	89,8
(see graph. for details)	3/4	%	88,3	88,6	88,5	88,2	89,6	90	90	90,2
	2/4	%	86,7	86,8	86,8	86,8	88,5	88,8	88,9	89
	1/4	%	81,7	81,5	81,3	81,2	85,1	85,3	85,4	85,5
Reactances (f. l.cl. F)	Xd	%	277,0	250	232,3	165,3	326,5	297,5	272,2	250
	Xd'	%	16,62	15	13,94	9,92	19,59	17,85	16,33	15
	Xd"	%	11,75	10,6	9,85	7,01	13,84	12,61	11,54	10,6
	Xq	%	100,8	91	84,5	60,2	118,8	108,3	99,1	91
	Xq'	%	100,8	91	84,5	60,2	118,8	108,3	99,1	91
	Xq"	%	34,3	31	28,8	20,5	40,5	36,9	33,8	31
	X <sub>2</sub>	%	24,38	22	20,44	14,55	28,73	26,18	23,95	22
	X <sub>0</sub>	%	3,10	2,8	2,60	1,85	3,66	3,33	3,05	2,8
Short Circuit Ratio	Kcc		0,60	0,70	0,86	1,38	0,40	0,50	0,60	0,70
Time Constants	Td'	sec.	0,058							
	Td"	sec.	0,012							
	Tdo'	sec.	1,35							
	Tα	sec.	0,025							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0,47	0,64	0,73	1,1	0,3	0,4	0,46	0,6
Excitation at full load	Amp.		2,1	2,2	2	2,5	1,9	1,7	1,6	1,7
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load							
Overload per 20 sec.		%	300							
Stator Winding Resistance (20 °C)	Ω		0,097							
Rotor Winding Resistance (20 °C)	Ω		2,01							
Exciter Resistance (20 °C)	Ω		Rotor : 0,417				Stator : 10,6			
Heat dissipation at f.l.cl.H	W		3782	3746	3854	3142	4013	3900	3858	3816
Telephone Interference			THF < 2%				TIF > 45			
Radio interference			EN61000-6-3, EN61000-6-1. For others standards apply to factory							
Waveform Distors.(THD) at f. load	LL/LN %		4 / 3,9							
Waveform Distors.(THD) at no load	LL/LN %		3,5 / 3,4							
<b>Mechanical characteristics</b>										
Protection			IP 21 (other protection on request)							
DE bearing			6312-2RS							
NDE bearing			6309-2RS							
Weight of wound stator assembly	kg		56							
Weight of wound rotor assembly	kg		39,5							
Weight of complete generator	kg		199							
Maximun overspeed	rpm		2250							
Unbalanced magnetic pull at f.l.cl.F	kN/mm		4,5							
Cooling air requirement	m <sup>3</sup> /min		11,8				14,5			
Inertia Constant (H)	sec.		0,113				0,136			
Noise level at 1m/7m	dB(A)		75 / 60				79 / 64			

All technical data are to be considered as a reference and they can be modified without notice

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