Generators QAS 40 KD
AML: Data

		STD units	Note
Reference conditions [1]			
1.Rated frequency	Hz	50	
2.Rated speed	rpm	1500	
3.Generator service duty		PRP	
4.Absolute inlet pressure	kPa	100	
5.Relative air humidity	%	30	
6.Air inlet temperature	°C	25	
Limitations [2]			
1.Maximum ambient temperature	°C	50	
2.Altitude capability	m	4000	
3.Relative air humidity maximum	%	85	
4.Minimum starting temperature unaided	°C	-18	
5.Minimum starting temperature aided	°C	-25	(a)
Performance data [2] [3] [5]			
1.Rated active power (PRP) 3ph	kW	32.9	
Rated active power (PRP) 1ph	kW	NA	
2.Rated power factor (lagging) 3phase	cos f	0.80	
Rated power factor (lagging) 1phase	cos f	NA	
3.Rated PRP power 3ph	kVA	41.1	
Rated PRP power 1ph	kVA	NA	
4.Rated voltage 3ph. line to line	V	400	
Rated voltage 3ph. line to line lower voltage	V	NA	
Rated voltage 1ph.	V	NA	
5.Rated current 3ph.	A	59.3	
Rated current 3ph lower voltage	A	NA	
Rated current 1ph.	A	NA	
6. Performance class (acc.ISO 8528-5:1993)		G2	
Single step load acceptance (0-PRP)	kW	32.9	
	%	100	
7. Frequency droop	%	<5	
		isochronous	
8.Fuel consumption at no load (0%)	kg/h	1.54	
Fuel consumption at 50% load	kg/h	4.16	
Fuel consumption at 75% load	kg/h	5.72	
Fuel consumption at full load (100%)	kg/h	7.53	
9.Specific fuel consumption (at full load, 100%)	kg/kWh	0.230	
10.Fuel autonomy at full load with standard tank	h	10.5	
11.Fuel autonomy at full load with extended fuel tank	h	29.4	(a)
12.Max. oil consumption at full load	g/h	37.7	
13.Maximum sound power level (LWA) measured according to 2000/14/EC OND	dB(A)	89	
14. Capacity of fuel tank	l	92	
15. Capacity of optional skid fuel tank	l	257.0	(a)
16. Single step load capability (0-PRP)	kW	32.9	
	%	100.0	
Application data			
1.Mode of operation		PRP	
2.Site		land use	
3.Operation		single	
4.Start-up and control mode		manual/automatic	
5.Start-up time		unspecified	
6,Mobility/ Config. acc. to ISO 8528-1:1993		transportable/D	
		mobile/E	(a)
7.Mounting		fully resilient	
8.Climatic exposure		open air	
9.Degree of protection		IP 54	
10.Status of neutral (TT or TN)		earthed	
Status of neutral (IT)		insulated	(a)

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Design data [4)]

Alternator

1.Standard		IEC 34-1 ISO 8528-3	
2.Make		STAMFORD	
3.Model		BCI184-J1	
4.Rated output,class H temp. rise	kVA	42.5	
rating type acc. ISO 8528-3		BR	
5.Degree of protection	IP	23	
6. Insulation - stator	class	H	
- rotor	class	H	
7.Number of wires		12	

Engine

1.Standard		ISO 3046 ISO 8528-2	
2.Make		KUBOTA	
3.Model		V3800DI-T	
4.Rated net output	kW	38.0	
rating type acc. ISO 3046-7		ICXN	
production tolerance	%	±5	
5.Coolant		Coolant	
6.Combustion system		direct injection	
7.Aspiration		Turbo charged	
8.Number of cylinders		4	
9.Swept volume	l	3.8	
10.Speed governing		electronic	
11.Capacity of oil sump	l	13	
12.Capacity of cooling system	l	7.5	
13.Electrical system	Vdc	12	
14. Emission compliance		EU STAGE II	

Power circuit

Circuit-breaker, 3ph.

1.Number of poles			4	
2.Thermal release	It	A	63	(b)
3.Magnetic release	Im	A	3..5xIn	

Circuit-breaker, 3ph. lower voltage

1.Number of poles			NA	
2.Thermal release	It	A	NA	
3.Magnetic release	Im	A	NA	

Fault current protection

1.Residual current release	IDn	A	0.030-30	
2.Insulation resistance		kOhm	10-100	(a)

Outlet sockets

domestic (1x) 2P+PE 16A 230V	(a)
CEE form (1x) 3P+N+PE 16A 400V	
CEE form (1x) 3P+N+PE 32A 400V	
CEE form (1x) 3P+N+PE 63A 400V	

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Notes

1) Reference conditions for engine performance to ISO 3046-1
2) See derating diagram or consult the factory for other conditions
3) At reference conditions unless otherwise stated
4) Rating Definition (ISO 8528-1):
   - LTP Limited Time Power is the maximum electrical power which a generating set is capable of delivering (at
   - PRP Prime Power is the maximum power available during a variable power sequence, which may be run for an
5) Specific mass fuel used: 0.86 kg/l

(a) optional equipment
(b) thermal release is higher at 25°C

DERATING FACTOR QAS40 (%)

derating factor %		*temperature (°C)*										
		0	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**45**	**50**
height (m)	**0**	100	100	100	100	100	100	95	95	90	85	85
	500	100	100	100	100	100	95	90	90	85	80	80
	1000	100	100	100	100	95	90	85	85	80	80	75
	1500	100	100	95	95	90	85	85	80	75	75	70
	2000	95	95	90	90	85	80	80	75	75	70	65
	2500	90	90	85	85	80	75	75	70	70	65	65
	3000	90	85	85	80	75	75	70	70	65	65	60
	3500	85	80	80	75	75	70	65	65	60	60	55

For use of generator outside these conditions, please contact Atlas Copco

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