Compressors QAS 325 VOD
AML: Principal Data

		Dual frequency		Note
Reference conditions [1) 4)]				
1.Rated frequency	Hz	50	60	
2.Rated speed	rpm	1500	1800	
3.Generator service duty		PRP	PRP	
4.Absolute inlet pressure	kPa	100	100	
5.Relative air humidity	%	30	30	
6.Air inlet temperature	°C	25	25	
Limitations [2)]				
1.Maximum ambient temperature	°C	50	50	
2.Altitude capability	m	4000	4000	
3.Relative air humidity maximum	%	85	85	
4.Minimum starting temperature unaided	°C	-15	-15	
5.Minimum starting temperature with heater	°C	-25	-25	(a)
Performance data [2) 3) 4) 5) 6)]				
1.Rated active power (PRP) 3ph	kW	260	276	
2.Rated power factor (lagging) 3phase		0.80	0.80	
3.Rated apparent power (PRP) 3ph	kVA	325	345	
Rated apparent power (PRP) 3ph Lower voltage	kVA	325	-	(a)
4.Rated voltage : line to line voltage	V	400	480	
Rated voltage : line to line lower voltage	V	230	-	(a)
5.Rated current 3ph.	A	469	415	
Rated current 3ph. Lower voltage	A	816	-	(a)
6. Performance class (acc.ISO 8528-5:1993)		G2	G2	
Single step load acceptance (0-PRP)	%	55	70	
	kW	143	207	
7. Frequency droop	%	<5	<5	
		isochronous	isochronous	
8. Fuel consumption at 0% load	kg/h	6.07	8.85	
Fuel consumption at 50% load	kg/h	29.07	34.10	
Fuel consumption at 75% load	kg/h	41.41	48.65	
Fuel consumption at full load (100%)	kg/h	54.92	62.29	
9.Specific fuel consumption at full load (100%)	kg/kWh	0.211	0.266	
10.Fuel autonomy at full load with standard tank	h	9	8	
11.Fuel autonomy at full load with optional 24 hrs tar	h	25	22	(a)
12.Max. oil consumption at full load	l/h	0.04	0.04	
13.Maximum sound power level (LWA) measured according to 2000/14/EC OND (measured @ 75% PRP load)	dB(A)	97	-	
14. Useful capacity of fuel tank	l	603	603	
15. Useful capacity of optional 24 hrs tank	l	1709	1709	(a)
16. Single step load capability (0-PRP)	%	100	100	
	kW	260	276	

Application data			Note
1.Mode of operation	PRP	PRP	
2.Site	land use	land use	
3.Operation	single/parallel	single/parallel	
4.Start-up and control mode	manual/auto	manual/auto	
5.Start-up time	unspecified	unspecified	
6,Mobility/ Config. acc. to ISO 8528-1:1993	transportable/D	transportable/D	
7.Mounting	fully resilient	fully resilient	
8.Climatic exposure	open air	open air	
9.Status of neutral	earthed	earthed	

Design data

Alternator

1.Standard			IEC 34-1 ISO 8528-3	IEC 34-1 ISO 8528-3
2.Make			LEROY SOMER	LEROY SOMER
3.Model			LSA 46.2 VL 13	LSA 46.2 VL 13
4.Rated output,class H temp. rise		kVA	325	381
rating type acc. ISO 8528-3			"BR" 125/40°C	"BR" 125/40°C
5.Degree of protection		IP	23	23
6. Insulation - stator		class	H	H
- rotor		class	H	H
7.Number of wires			12	12

Engine

1.Standard			ISO 3046 ISO 8528-2	ISO 3046 ISO 8528-2
2.Make			Volvo	Volvo
3.Model			TAD941 GE	TAD941 GE
4.Rated net output		kW	280	296
rating type acc. ISO 3046-7			ICXN	ICXN
5.Coolant			water	water
6.Combustion system			direct injection	direct injection
7.Aspiration			turbocharged intercooled	turbocharged intercooled
8.Number of cylinders			6	6
9.Swept volume		l	9.36	9.36
10.Speed governing			electronic EMS 2	electronic EMS 2
11.Capacity of oil sump		l	30	30
12.Capacity of cooling system		l	41	41
13.Electrical system		Vdc	24	24
13.Emission compliance			EU STAGE II	EU STAGE II

Power circuit

					Note
Circuit-breaker,3ph.					
1. Number of poles			4	4	
2. Thermal release	It	A	470	470	(b)
3. Magnetic release	Im	A	3,5 x In	3,5 x In	
Circuit-breaker, 3ph., lower voltage					(a)
1. Number of poles			4	-	
2. Thermal release	It	A	800	-	(b)
3. Magnetic release	Im	A	4 x In	-	
Fault current protection					
1. Residual current release	IDn	A	0,03-30	0,03-30	
2. Insulation resistance		kOhm	10-100	10-100	(a)
Outlet sockets					(a)

domestic (1x)
2p+E
16A 230V

CEE form (1x)
3P+N+PE
16A 400V

CEE form (1x)
3P+N+PE
32A 400V

CEE form (1x)
3P+N+PE
63A 400V

CEE form (1x)
3P+N+PE
125A 400V

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 variable load), in the event of a utility power failure (for up to 500 hours per year of which a maximum of 300 hours is continuous running). No overload is permitted on these ratings. The alternator is peak continuous rated (as defined in ISO8528-3) at 25°C.

PRP — Prime Power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals and under the stated ambient conditions. A 10% overload is permitted for 1 hour in 12 hours. The permissible average power output during a 24h period shall not exceed the stated load factor of 70%.

5) Specific mass fuel used: 0.86 kg/l

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

Derating Table (in %, 100% is declared power in "*Performance Data*")

derating factor %		*temperature (°C)*										
		0	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**45**	**50**
height (m)	**0**	100	100	100	100	100	100	100	100	95	85	75
	500	100	100	100	100	100	100	100	100	95	85	75
	1000	100	100	100	100	100	100	100	100	95	85	75
	1500	100	100	100	100	100	100	95	95	90	85	75
	2000	95	95	95	95	95	95	90	90	85	80	75
	2500	85	85	85	85	85	85	85	85	80	75	70
	3000	80	80	80	80	80	80	80	80	75	70	65
	3500	75	75	75	75	75	75	75	75	70	65	60
	4000	70	70	70	70	70	70	70	70	65	60	55

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