



ZC8270 船用柴油机技术参数

型式 Form	直列、四冲程、直喷、涡轮增压、不可逆转 Inline, four stroke, direct injection, exhaust turbo charging, cannot inversion				
型号 Model	ZC8270ZLC	ZC8270ZLC-1	ZC8270ZLC-2	ZC8270ZLC-3	
持续功率 Continuous power	kW/PS	2560/3480	2400/3264	2207/3000	2060/2800
持续转速 Continuous speed	rpm	800	750	750	750
气缸直径 Cylinder diameter	mm	270			
活塞行程 Piston stroke	mm	385			
气缸数 Cylinders NO.		8			
总排量 Total emissions	L	176.3			
压缩比 Compression ratio		15.08			
最低工作稳定转速 Minimum speed stable work	rpm	320	300	300	300
活塞平均速度 Average speed of piston	m/s	10.267	9.625	9.625	9.625
平均有效压力 Mean effective pressure	MPa	2.18	2.18	2.0	1.87
增压压力(绝对) Supercharging pressure	MPa	0.41 ± 0.01	0.394 ± 0.01	0.38 ± 0.01	0.37 ± 0.01
最高爆发压力 Maximum explosion pressure	MPa	≤19.5	≤19.5	≤19.0	≤18.5
各缸排气温度 Each cylinder exhaust temperature	°C	370~450			
涡轮前排温 Turbine in front of the warm	°C	480~530			
燃油消耗率 Fuel consumption	g/kw.h	182			
机油消耗率 Oil consumption	g/kw.h	1.1			
曲柄排列					
发火顺序 Ignition sequence		1-2-4-6-8-7-5-3 (顺时针) Clockwise			
		1-3-5-7-8-6-4-2 (逆时针) Counterclockwise			
起动方式 Starting way		压缩空气马达起动 Compressed air starting motor			
供油正时	°CA	10.5 (各缸供油正时之差1°CA)			
起动空气压力 Starting air pressure	MPa	空气瓶压力 Air bottle pressure: 3.0 减压阀后压力 After the relief valve pressure: 1.0			
外形尺寸(长宽高) Overall dimensions(L x W x H)	mm	5878 x 2481 x 3963			
吊缸高度 Lifting height of cylinder	mm	3040 (不带气缸盖螺栓) No cylinder head bolt /3482 (带气缸盖螺栓) Have cylinder head bolt			
整机质量 Whole machine quality	kg	约 About 30300			
平均噪声级	dB(A)	< 100 (声压级)			

注: 1.燃油消耗率的标定依据如下: ISO的环境条件, 误差5%, 燃油低热值42700KJ/Kg, 不带发动机驱动的泵。若带上发动机驱动的泵, 那么带滑油泵增加1.5% (3g/kw.h), 每带一个水泵增加0.7% (1.4g/kw.h)。 2.外形尺寸为参考尺寸, 具体以图纸为准。

型式 Form	直列、四冲程、直喷、涡轮增压、不可逆转 Inline, four stroke, direct injection, exhaust turbo charging, cannot inversion						
型号 Model	ZC8270ZLC-4	ZC8270ZLC-5	ZC8270ZLC-6	ZC8270ZLC-7	ZC8270ZLC-8	ZC8270ZLC-9	
持续功率 Continuous power	kW/PS	2920/3970	2720/3700	1920/2610	1800/2450	1620/2200	1470/2000
持续转速 Continuous speed	rpm	800	800	750	750	750	750
气缸直径 Cylinder diameter	mm	270					
活塞行程 Piston stroke	mm	385					
气缸数 Cylinders NO.		8					
总排量 Total emissions	L	176.3					
压缩比 Compression ratio		15.08					
最低工作稳定转速 Minimum speed stable work	rpm	320	320	300	300	300	300
活塞平均速度 Average speed of piston	m/s	10.267	10.267	9.625	9.625	9.625	9.625
平均有效压力 Mean effective pressure	MPa	2.48	2.31	1.74	1.63	1.47	1.33
增压压力(绝对) Supercharging pressure	MPa	0.43 ± 0.01	0.42 ± 0.01	0.36 ± 0.01	0.34 ± 0.01	0.33 ± 0.01	0.31 ± 0.01
最高爆发压力 Maximum explosion pressure	MPa	≤19.5	≤19.5	≤18.0	≤17.5	≤17.5	≤16.5
各缸排气温度 Each cylinder exhaust temperature	°C	370~450					
涡轮前排温 Turbine in front of the warm	°C	480~530					
燃油消耗率 Fuel consumption	g/kw.h	182					
机油消耗率 Oil consumption	g/kw.h	1.1					
曲柄排列							
发火顺序 Ignition sequence		1-2-4-6-8-7-5-3 (顺时针) Clockwise					
		1-3-5-7-8-6-4-2 (逆时针) Counterclockwise					
起动方式 Starting way		压缩空气马达起动 Compressed air starting motor					
供油正时	°CA	10.5 (各缸供油正时之差1°CA)					
起动空气压力 Starting air pressure	MPa	空气瓶压力 Air bottle pressure: 3.0 减压阀后压力 After the relief valve pressure: 1.0					
外形尺寸(长宽高) Overall dimensions(L x W x H)	mm	5878 x 2481 x 3963					
吊缸高度 Lifting height of cylinder	mm	3040 (不带气缸盖螺栓) No cylinder head bolt /3482 (带气缸盖螺栓) Have cylinder head bolt					
整机质量 Whole machine quality	kg	约 About 30300					
平均噪声级	dB(A)	< 100 (声压级)					

注: 1.燃油消耗率的标定依据如下: ISO的环境条件, 误差5%, 燃油低热值42700KJ/Kg, 不带发动机驱动的泵。若带上发动机驱动的泵, 那么带滑油泵增加1.5% (3g/kw.h), 每带一个水泵增加0.7% (1.4g/kw.h)。 2.外形尺寸为参考尺寸, 具体以图纸为准。



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型号 Model		ZC8270ZLC-4	ZC8270ZLC-10	ZC8270ZLC-11
持续功率 Continuous power	kW/PS	2920/3970	2650/3604	2450/3000
持续转速 Continuous speed	rpm	800	750	700
气缸直径 Cylinder diameter	mm	270		
活塞行程 Piston stroke	mm	385		
气缸数 Cylinders NO.		8		
总排量 Total emissions	L	176.3		
压缩比 Compression ratio		15.08		
最低工作稳定转速 Minimum speed stable work	rpm	320	280	280
活塞平均速度 Average speed of piston	m/s	10.267	8.983	8.983
平均有效压力 Mean effective pressure	MPa	2.48	2.40	2.36
增压压力(绝对) Supercharging pressure	MPa	0.43 ± 0.01	0.394 ± 0.01	0.38 ± 0.01
最高爆发压力 Maximum explosion pressure	MPa	≤19.5	≤19.5	≤19.0
各缸排气温度 Each cylinder exhaust temperature	°C	370-450		
涡轮前排温 Turbine in front of the warm	°C	480-530		
燃油消耗率 Fuel consumption	g/kw.h	182		
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曲柄排列				
发火顺序 Ignition sequence		1-2-4-6-8-7-5-3 (顺时针) Clockwise 1-3-5-7-8-6-4-2 (逆时针) Counterclockwise		
起动方式 Starting way		压缩空气马达起动 Compressed air starting motor		
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外形尺寸(长宽高) Overall dimensions(L x W x H)	mm	5878 × 2481 × 3963		
吊缸高度 Lifting height of cylinder	mm	3040 (不带气缸盖螺栓) No cylinder head bolt / 3482 (带气缸盖螺栓) Have cylinder head bolt		
整机质量 Whole machine quality	kg	约 About 30300		
平均噪声级	dB(A)	< 100 (声压级)		

注: 1. 燃油消耗率的标定依据如下: ISO的环境条件, 误差5%, 燃油低热值42700KJ/Kg, 不带发动机驱动的泵。若带上发动机驱动的泵, 那么带滑油泵增加1.5% (3g/kw.h), 每带一个水泵增加0.7% (1.4g/kw.h)。 2. 外形尺寸为参考尺寸, 具体以图纸为准。

