

GRUPOS ELECTROGENOS INDUSTRIALES



Model:TC200

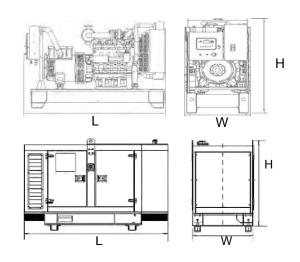
Powered by CUMMINS

Output Ratir	ng			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
C200D5	400V/50HZ	146KW	160KW	380/220V 400/230V 415/27V
	PF:0.8	182KVA	200KVA	

General Information				
Model		C200D5		
Engine		6CTA8.3G2		
Speed control type		Electronical		
Phase		3		
Control System		Digital		
System voltage		24V		
Frequency		50HZ		
Engine Speed(RPM)		1500		
Fuel Consumption (L/hr)	Standby power(2)	48		
	Prime Power(1)	42		
	75% prime power	31		
	50% prime power	21		



Dimension and Weight			
Dimension	Open	Silent	
Length (L)	2389mm	3280mm	
Width (W)	980mm	1080mm	
Height (H)	1472mm	1765mm	
Net Weight	1250KG	1780KG	



- * 2006/42/EC Machinery safety.
- * 2006/95/EC Low voltage
- * EN 60204-1: 2006+A1:2009, EN ISO 12100:2010, EN ISO 13849-1: 2008, EN 12601: 2010

(1)Prime Power(PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operation conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24h of operation shall not exceed 70% of the PRP.

(2) Standby Power (ESP):

According to ISO 8528-1:2005, standby power is the maximum power available during a variable electrical power sequence, under the stated operation conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200h of operation per year with the maintenance intervals and procedures being caried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.



Engine Specification

Compression Ratio: Bore: Storke: Emission Certification: Governor Regulation:	17.3:1 114 mm 135 mm MEP STAGE I ≤3%	Aspiration: Displacement: No. of Cylinders: Fuel System:	Turbocharged & A 8.3 L 6 FR91961: BYC PE FR92995: BYC PE FR91651: BYC PE	B/GAC B/SEGMA
ENGINE MOUNTING				
Maximum (Station	c) Bending Moment at Front	Support Mounting Surface	ceN.m	495
Maximum (Station	c) Bending Moment at Side	Pad Mounting Surface	N.m	250
Maximum (Station	c) Bending Moment at Rear	Face of Block	N.m	1356
	a of Complete Engine			
— Roll Ax	ds		kg·m²	29.8
— Pitch A	xxis		kg·m²	76.8
— Yaw A	xis		kg·m²	66.9
EXHAUST SYSTEM				
	Pressure		-kPa	10
	ze Normally Acceptable			75
-	Supported Weight at the To			14
	d Insulation Acceptable			No
	sulation Acceptable			No
_	·			
AIR INTAKE SYSTEM				
	Air Restriction with Heavy			
•	lement			6
	Element			4
	olding Capacity with Heavy	•	~	25
-	erature Rise from Ambient		•	17
Recommended	intake piping size (inner dia	meter)	mm	75
LUBRICATION SYSTE	=м			
	e Oil Pressure for Engine Pr	otection Devices:		
_	Speed		-kPa	103
	erned Speed			276 - 414
	emperature			121
	ed Lube System Capacity -			27.6
	andard Oil Pan: (Values stat			
	own			45
	p			45
— Side to	Side		°	45
FUEL SYSTEM				
	ystem			
	ction at Lift Pump			27
Maximum Allow	able Head on Injector Retur	, -		•
<u>.</u>				33.7
	nlet Temperature			71
Maximum Fuel F	Flow on the Supply Side of t	he Fuel Pump	kg/hr	193



Alternator

Alternator		
Poles	Num	4
Winding Connections (standard)		Star-serie
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter System		Brushless
Voltage Regulator		A.V.R. (Electronic)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standard (Vacuum impregnation)

Control Panel: AMF20



- Mains measurements (50/60 Hz): U1-U3, Hz
- Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVAr, kWh
- Selectable protections alarm/ shutdown
- 3 phase Generator protections
 - Over-/under voltage
 - Over-/under frequency

- 3 phase AMF function
 - Over-/under frequency
 - Over-/under voltage
 - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement ■ Configurable programmable binary
- inputs and outputs
- Warm-up and cooling functions

Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- Perfect price/performance ratio

Features

- Support of engines equipped with Electronic Control Unit (J1939 interface)
- Comprehensive diagnostic messages: SPN/FMI codes; KWP2000 support
- Automatic or manual start/stop of the gen-set
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display 128x64 pixels
- 6 LED indicators
- Parameters adjustable via keyboard
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface (AT-LINK CONV cable is necessary for IL-AMF 20)
- Modem communication support (IL-AMF 25 only)
- Dimensions 180x120 mm (front panel)
- Sealed to IP65