T20HK

Engine MITSUBISHI , S3L2-SDH
Alternator MECC ALTE , ECO3-2L

STANDARD FEATURES

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with mechanical fan
- Protective grille for fan and rotating parts
- 9 dB(A) silencer supplied separately
- Charger DC starting battery with electrolyte
- 12 V charge alternator and starter
- Delivered with oil and coolant -30°C
- Manual for use and installation

Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
415/240	16 / 20	- / -	28		
400/230	16 / 20	- / -	29	Leng : 1405mm [55in]	386kg [851lbs] Net
380/220	16 / 20	- / -	30	Widt : 715mm [28in]	437kg [963lbs] Gross
240 TRI	16 / 20	- / -	48	Heig : 1053mm [41in]	
230 TRI	16 / 20	- / -	50		
220 TRI	16 / 20	- / -	52		
220/127	13.6 / 17	- / -	45		
200/115	16 / 20	- / -	58		

POWER DEFINITION

PRP : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

ESP : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

TERM OF USE

Standard reference conditions ESP/PRP 25 C°/NA Air Intlet Temp, 100 m/NA m A.S.L. 60 % relative humidity.

	Model	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
	M126-DW	78.4	68.4	Leng : 1797mm [71in] Widt : 775mm [31in] Heig : 1391mm [55in]	613kg [1351lbs] 700kg [1543lbs]	93 L
	M126	80.8	70.8	Leng : 1750mm [69in] Widt : 775mm [31in] Heig : 1230mm [48in]	534kg [1177lbs] 585kg [1290lbs]	50 L

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ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	MITSUBISHI S3L2-SDH , 4-temps, ATHMO , N/A 3 X
	Cylinder arrangement	L
	Displacement (C.I.)	1.32
	Bore (mm) X Stroke (mm)	78 X 92
	Compression ratio	22 : 1
	Speed (RPM)	3000
	Pistons speed (m/s)	9.2
	Maximum stand-by power at rated RPM (kW)	20.9
	Frequency regulation (%)	2.5
	BMEP (bar)	5.76
	Governor type	MECA
EXHAUST SYSTEM	Exhaust gas temperature (°F)	530
	Exhaust gas flow (L/s)	73.1
	Max. exhaust back pressure (mm CE)	700
FUEL SYSTEM	Consumption @ 110% load (L/h)	N/A
	Consumption @ 100% load (L/h)	6.7
	Consumption @ 75% load (L/h)	5.5
	Consumption @ 50% load (L/h)	4.1
	Maximum fuel pump flow (L/hr)	18
OIL	Oil capacity (L)	4.2
	Min. oil pressure (bar)	0.5
	Max. oil pressure (bar)	4
	Oil consumption 100% load (L/h)	0.036
	Carter oil capacity (L)	3.7
THERMAL BALANCE	Heat rejection to exhaust (kW)	20
	Radiated heat to ambiant (kW)	2
	Haet rejection to coolant (kW)	21.5
AIR INTAKE	AIR INTAKE_entree_max%	310
	Intake air flow (L/s)	27.3
COOLANT SYSTEM	Radiator & Engine capacity (L)	4.2
	Max water temperature (°C)	111
	Outlet water temperature (°C)	93
	Fan power (kW)	1.5
	Fan air flow w/o restriction (m3/s)	1.1
	Available restriction on air flow (mm CE)	10
	Type of coolant	GENCOOL
	Thermostat (°C)	82-95
EMISSIONS	Emissions PM (g/kW.h)	N/A
	Emission CO (g/kW.h)	N/A
	Emissions HCNOx (g/kWh)	N/A
	Emission HC (g/kW.h)	N/A

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ALTERNATOR SPECIFICATIONS

DATA GENERAL DATA	Alternator brand	MECC ALTE
	Alternator	ECO3-2L
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude (m)	1000
	Overspeed (rpm)	N/A
	Number of pole	2
	Excitation system	NO
	Insulation class / Temperature class	H / H
	Regulation	SR7/2
	Total harmonics TGH/THC	N/A
	Wave form : NEMA=TIF-TGH/THC	N/A
	Wave form : CEI=FHT-TGH/THC	N/A
	Number of bearing	1
	Coupling	DIRECT
	Voltage regulation 0 à 100%	N/A
	Recovery time (Delta U = 20% transitoire) (ms)	N/A
OTHER DATA	Continuous Nominal Rating 40°C (kVA)	19
	Standby Rating 27°C (kVA)	21
	Efficiencies 4/4 load (%)	85
	Air flow (m3/s)	0.05
	Short circuit ratio (Kcc)	0.63
	Direct axis synchro reactance unsaturated (Xd) (%)	193
	Quadra axis synchro reactance unsaturated (Xq) (%)	101
	Open circuit time constant (T'do) (ms)	0.7
	Direct axis transient reactance saturated (X'd) (%)	26.6
	Short circuit transient time constant (T'd) (ms)	55
	Direct axis subtransient reactance saturated (X"d) (%)	14.5
	Subtransient time constant (T"d) (ms)	11
	Quadra axis subtransient reactance saturated (X"q) (%)	36.5
	Zero sequence reactance unsaturated (Xo) (%)	5.5
	Negative sequence reactance saturated (X2) (%)	17.8
	Armature time constant (Ta) (ms)	10
	No load excitation current (io) (ms)	N/A
	Full load excitation current (ic) (A)	N/A
	Full load excitation voltage (uc) (A)	N/A
	Recovery time (Delta U = 20% transitoire) (ms)	N/A
	Motor start (Delta U = 20% perm. or 50% trans.) (ms)	N/A
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	N/A
	No load losses (kW)	N/A
	Heat rejection (kW)	N/A

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CONTROL PANEL

Standard	NEXYS
	NEXYS Specifications : Frequency meter, Ammeter, Voltmeter Alarms and faults : Oil pressure, water temperature, Overcrank, Overspeed (>60 kVA), Min/max alternator, Low fuel level, Emergency stop Engine parameters : Hours counter, Engine speed, Battery voltage, Fuel level, AIr preheating
Option	TELYS
	TELYS Specifications : Frequency meter, Ammeter, Voltmeter Alarms and faults : Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop Engine parameters : Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

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