

GENERAL DATA

Alternator type	S 49.3 S4
Number of Phase	Three phase
Power factor (Cos Phi)	0.8
Altitude (m)	0 to 1000
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 3 In for 10 s	Yes
Insulation class	H
T° class (H/125°), continuous 40°C	H / 125°K
T° class, standby 27°C	H / 163°K
AVR Regulation	Yes
Total Harmonic Distortion in no-load DHT (%)	<4
Total Harmonic Distortion, on load DHT (%)	<4
Wave form : NEMA=TIF	<50
Wave form : CEI=FHT	<2
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (+/- %)	0.5
Recovery time (Delta U = 20% transient) (ms)	500
Protection class	IP 23
Technology	Without collar or brush

OTHER DATA

Continuous Nominal Rating 40°C (kVA)	660
Standby Rating 27°C (kVA)	7-5
Efficiencies 100% of load (%)	94.1
Air flow (m3/s)	1
Short circuit ratio (Kcc)	0.30I
Direct axis synchro reactance unsaturated (Xd) (%)	3Kt
Quadrature-axis synchro reactance unsaturated (Xq) (%)	N/A
Open circuit time constant (T'do) (ms)	atta
Direct axis transient reactance saturated (X'd) (%)	17.5
Short circuit transient time constant (T'd) (ms)	100
Direct axis subtransient reactance saturated (X''d) (%)	14
Subtransient time constant (T''d) (ms)	10
Quadrature-axis subtransient reactance saturated (X''q) (%)	16.3
Subtransient time constant (T''q) (ms)	10
Zero sequence reactance unsaturated (Xo) (%)	0.a
Negative sequence reactance saturated (X2) (%)	15.17
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	retO
Full load excitation current (ic) (A)	-ear
Full load excitation voltage (uc) (V)	KOeH
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	rl--eaK
Transient dip (4/4 load) - PF : 0,8 AR (%)	ra
No load losses (W)	HalaeEL
Heat rejection (W)	32583.13
Unbalanced load acceptance ratio (%)	60

DIMENSIONS

CONTAINMENT DW

Commercial reference of the enclosure	M230 DW
Length (mm)	5083
Width (mm)	1690
Height (mm)	2922
Dry weight (kg)	6140
Tank capacity (L)	1950
Acoustic pressure level @1m in dB(A)	85
Sound power level guaranteed (Lwa)	105
Acoustic pressure level @7m in dB(A)	75

DEC4000, ergonomic and user-friendly



The highly versatile DEC4000 control unit is complex yet accessible, thanks to the particular attention paid to optimising its ergonomics and ease of use. With its large display screen, buttons and scroll wheel, it places the accent on simplicity and communication.

The DEC4000 offers the following functions:

Electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop, fuel level.

Ergonomics: wheel for navigating around the various menus.

Communication: remote control and operation software, USB connections, PC connection.

For more information on the product and its options, please refer to the sales documentation.

APM802 dedicated to power plant management



The new APM802 command/control system is specifically designed for operating and monitoring power plants for markets including hospitals, data centres, banks, the oil and gas sector, industries, IPP, rental and mining.

The Human Machine Interface, designed in collaboration with a company specialising in interface design, facilitates operations with a large 100% touch screen. The pre-configured system for power plant applications features a brand new customisation function which complies with the international standard IEC 61131-3. New communication functions (PLC and regulation), improve the high level of equipment availability in the installation.

Advantages:

- Dedicated to power plant management.
- Specially researched ergonomics.
- High level of equipment availability.
- Modularity and long service life guaranteed.
- Making it easy to extend the installation

For more information, please refer to the sales documentation.

Basic terminal block



The control unit can be used as a basic terminal block for connecting a control box.

Offers the following functions:

emergency stop button, customer connection terminal block, CE.