

J33

Engine JOHN DEERE , 3029DF120
Alternator MECC ALTE , ECO28VL

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	25 / 31	23 / 28	43		
400/230	26 / 33	24 / 30	48	Leng : 1700mm [67in]	740kg [1631lbs] Net
380/220	26 / 33	24 / 30	50	Widt : 896mm [35in]	850kg [1874lbs] Gross
240 TRI	26 / 33	24 / 30	79	Heig : 1221mm [48in]	
230 TRI	26 / 33	24 / 30	83		
220 TRI	26 / 33	24 / 30	87		
200/115	26 / 33	24 / 30	95		



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°/25 C° Air Intlet Temp, 1000 m/1000 m m A.S.L. 60 % relative humidity.

Model	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
 M127-DW	74.9	65	Leng : 2160mm [85in] Widt : 966mm [38in] Heig : 1582mm [62in]	1150kg [2535lbs] 1370kg [3020lbs]	230 L
 M127	74.9	65	Leng : 2080mm [82in] Widt : 960mm [38in] Heig : 1415mm [56in]	970kg [2138lbs] 1080kg [2381lbs]	100 L

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ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	JOHN DEERE 3029DF120 , 4-temps, ATHMO , N/A 3 X
	Cylinder arrangement	L
	Displacement (C.l.)	2.91
	Bore (mm) X Stroke (mm)	106 X 110
	Compression ratio	17.8 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	5.5
	Maximum stand-by power at rated RPM (kW)	29.7
	Frequency regulation (%)	2.5
	BMEP (bar)	7.42
	Governor type	MECA
EXHAUST SYSTEM	Exhaust gas temperature (°F)	555
	Exhaust gas flow (L/s)	78
	Max. exhaust back pressure (mm CE)	625
FUEL SYSTEM	Consumption @ 110% load (L/h)	8.5
	Consumption @ 100% load (L/h)	7
	Consumption @ 75% load (L/h)	5
	Consumption @ 50% load (L/h)	3.6
	Maximum fuel pump flow (L/hr)	111
OIL	Oil capacity (L)	6
	Min. oil pressure (bar)	1
	Max. oil pressure (bar)	5
	Oil consumption 100% load (L/h)	0.007
	Carter oil capacity (L)	5.3
THERMAL BALANCE	Heat rejection to exhaust (kW)	31
	Radiated heat to ambient (kW)	6
	Heat rejection to coolant (kW)	18
AIR INTAKE	AIR INTAKE_entree_max%	300
	Intake air flow (L/s)	28
COOLANT SYSTEM	Radiator & Engine capacity (L)	16.1
	Max water temperature (°C)	105
	Outlet water temperature (°C)	93
	Fan power (kW)	1.5
	Fan air flow w/o restriction (m3/s)	1.74
	Available restriction on air flow (mm CE)	20
	Type of coolant	GENCOOL
	Thermostat (°C)	82-94
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	ECO28VL
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude (m)	1000
	Overspeed (rpm)	N/A
	Number of pole	4
	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)	30
	Standby Rating 27°C (kVA)	33
	Efficiencies 4/4 load (%)	84.8
	Air flow (m3/s)	0.088
	Short circuit ratio (Kcc)	0.62
	Direct axis synchro reactance unsaturated (Xd) (%)	165
	Quadra axis synchro reactance unsaturated (Xq) (%)	71
	Open circuit time constant (T'do) (ms)	0.93
	Direct axis transient reactance saturated (X'd) (%)	15.4
	Short circuit transient time constant (T'd) (ms)	46
	Direct axis subtransient reactance saturated (X''d) (%)	8.8
	Subtransient time constant (T''d) (ms)	12
	Quadra axis subtransient reactance saturated (X''q) (%)	19
	Zero sequence reactance unsaturated (Xo) (%)	2.8
	Negative sequence reactance saturated (X2) (%)	13.2
	Armature time constant (Ta) (ms)	11
	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

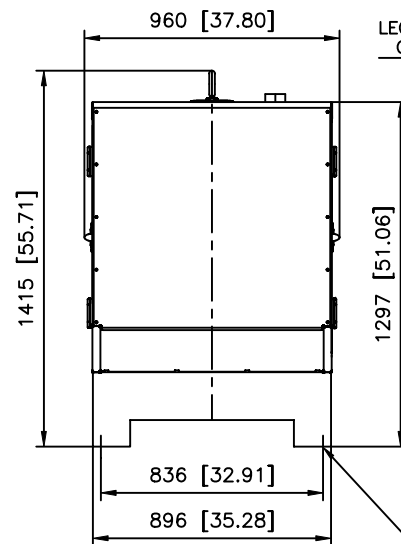
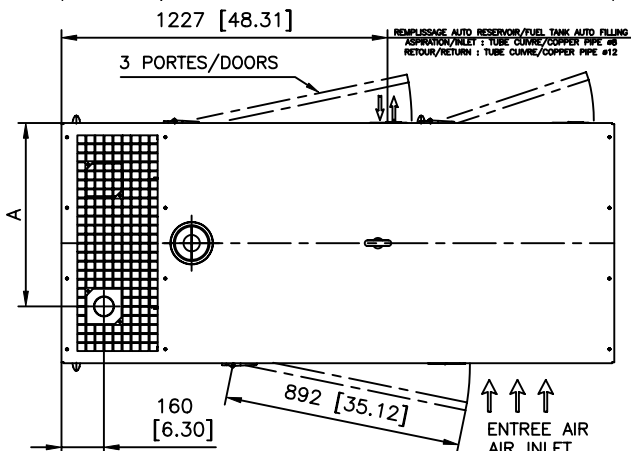
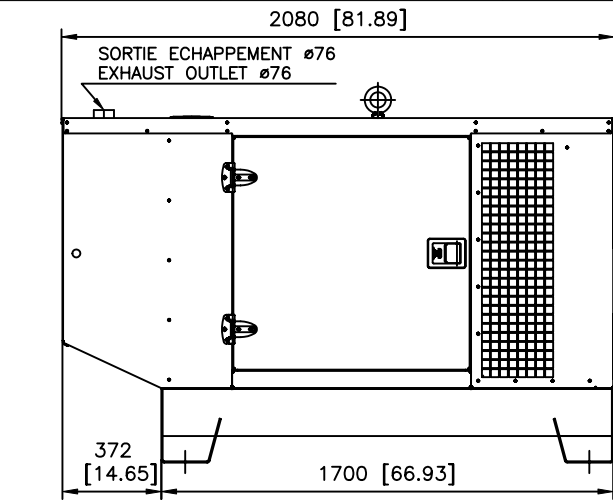
Option

TELYS



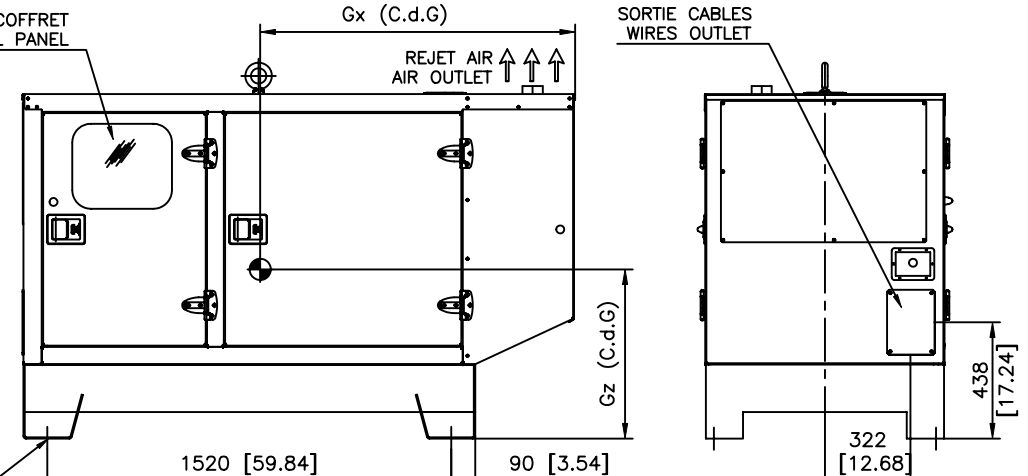
TELYS

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



LECTURE COFFRET
CONTROL PANEL

4 TROUS/HOLES ø18
(FIXATION AU SOL
GROUND FIXING)



MOTEUR/ENGINE	ALTERNATEUR/GENERATOR	MASSE/WEIGHT (kg/lbs)		CENTRE DE GRAVITE CENTER OF GRAVITY OdM/Wet		
		A vide/Dry	OdM/Wet	A(mm)	Gx(mm)	Gz(mm)
S4Q2	ECO28.1L	790/1742	890/1963	690	1160	634
S4Q2	ECO28VL	810/1786	910/2007	690	1176	631
S4Q2	LSA422S5	780 /1719	880/1940	690	1152	586
S4S	ECO28VL	890/1963	990/2183	690	1148	616
S4S	ECO32.3S	940/2073	1050/2315	690	1182	611
S4S	LSA422L9	890/1963	990/2183	690	1148	616
3029DF	ECO28VL	970/2139	1080/2381	690	1139	644
3029DF	432S15	1020/2248	1130/2491	690	1170	640
3029DF	422L9	970/2139	1080/2381	690	1139	644
3029DF	ECO32.3S	1020/2249	1130/2492	690	1172	639
3029DF	ECO28-1L	950/2094	1050/2314	690	1125	646
3029TF	ECO32.3S	1040/2293	1150/2536	690	1189	640
3029TF	LSA432M45	1090/2404	1200/2646	690	1184	637
3029TF	LSA432S15	1040/2292	1150/2535	690	1167	641
S4L2.SDH	ECO28.2L	760/1676	850/1874	690	1182	610
S4S-DT	ECO32.3S	920/2029	1020/2249	214	1187	590
S4S-DT	LSA432M45	960/2117	1060/2337	214	1203	595

Moteur avec turbo position haute.
Engine with turbocharger in high position.

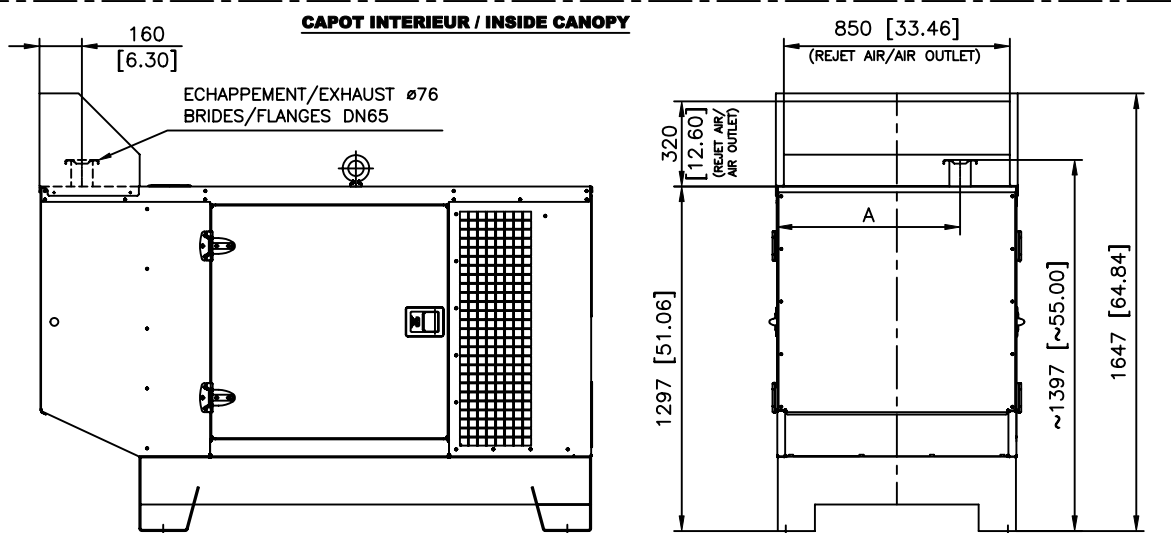
Ce plan est valable pour groupe électrogène avec réservoir gasoil intégré.
Pour version sans réservoir gasoil intégré voir plan correspondant.
This drawing is valid for a generating set with integrated fuel tank.
For version without integrated fuel tank refer to relevant drawing.
Ce plan vous est remis ? titre indicatif et peut être révisé sans préavis
This drawing is for informational purposes only and maybe changed without notice

N	MISE A JOUR TABLEAU DES MASSES	01/12/06	P.SIMON	01/12/06	CASCOET
M	MISE A JOUR TABLEAU DES MASSES	13/11/06	P.SIMON	13/11/06	CASCOET
L	AJOUT POSITION REMPLISSAGE AUTO RESERVOIR	06/11/06	LE GUYADER L	06/11/06	CASCOET
K	RAJOUT MOTEUR MITSUBISHI S4SDT	19/06/06	CASCOET	19/06/06	P.SIMON
J	MISE A JOUR TABLEAU DES MASSES	16/06/06	P.SIMON	16/06/06	CASCOET
I	MISE A JOUR TABLEAU DES MASSES	25/04/06	P.SIMON	25/04/06	CASCOET
H	MODIFICATION VUE AR (71e de fermeture) SUITE C050001 "PLASTRONS PRISES"	08/02/06	Y.J	08/02/06	Y.J
G	COTE DE POSITION SORTIE ECHAPPEMENT "A" PASSEE A 690 POUR S4Q2 ET S4S	07/10/05	LLE GUYADER	07/10/05	CASCOET
F	RAJOUT MOTEUR MITSUBISHI S4L2.SDH DANS TABLEAU DES MASSES	02/08/05	CASCOET	02/08/05	P.SIMON
E	ENTRAXE DE 1510 mm PASSE A 1520 mm	21/07/05	P.SIMON	21/07/05	CASCOET
D	RAJOUT MOTEUR 3029TF AVEC TURBO POSITION HAUT	13/06/05	CASCOET	13/06/05	P.SIMON
C	RAJOUT CENTRE DE GRAVITE	29/03/05	CASCOET	29/03/05	P.SIMON
B	RAJOUT VERSION INTERIEUR	23/02/05	CASCOET	23/02/05	P.SIMON
A	CREATION DU DOCUMENT	17/01/04	CASCOET	17/01/04	P.SIMON
IND.	DESIGNATION DE LA MODIFICATION	DATE	VISA	DATE	VISA
			DESSINE		VERIFIE

MATIERE :	FORMAT : A2
RELEVEMENT :	ECHELLE : 1/15
TOLERANCE :	FOLIO : 1/1
DESIGNATION :	MASSE (Vide/Plein) kg

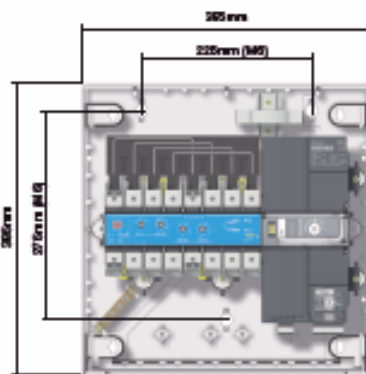
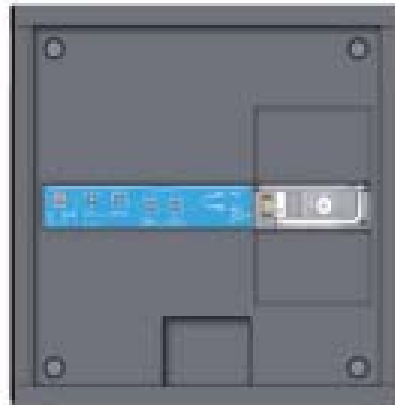
SDMO 3-00-01-3508-01-N

12 bis, rue de la Villeneuve 29272 BREST - Tél : 02.98.41.41.41 - Télax : 940757F - Télécopie : 02.98.41.83.07
CE PLAN EST LA PROPRIETE DE LA SOCIETE ; IL NE PEUT ETRE REPRODUIT, UTILISE OU COMMUNIQUE SANS SON AUTORISATION

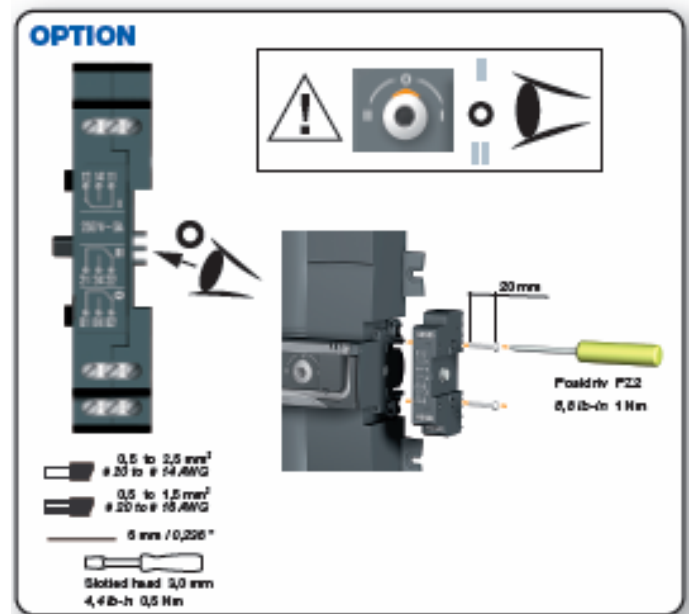
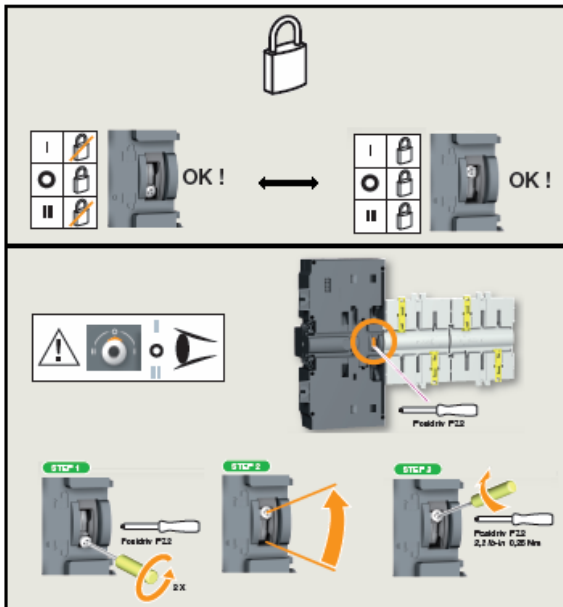


CAPOT INTERIEUR / INSIDE CANOPY

	127/230 VAC	230/400 VAC
35A	31616117001NE	31616118801NE
63A	31616117101NE	31616118901NE
80A	31616117201NE	31616119001NE
100A	31616117301NE	31616119101NE
125A	31616117401NE	31616119201NE
160A	31616117501NE	31616119301NE



M6



hygrometry :
 * 80% humidity without condensation at 5° C
 * 95% humidity with condensation at 40° C



altitude :
 max 2 000 m without de-rating



temperature :
 * -10 +40°C without de-rating
 * -20 +70°C with de-rating



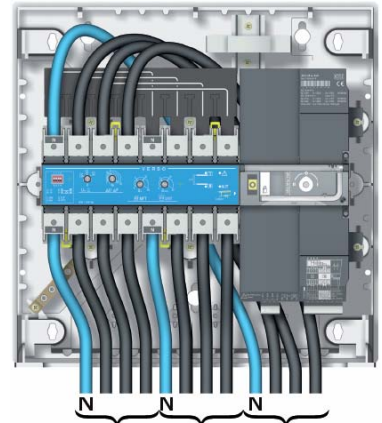
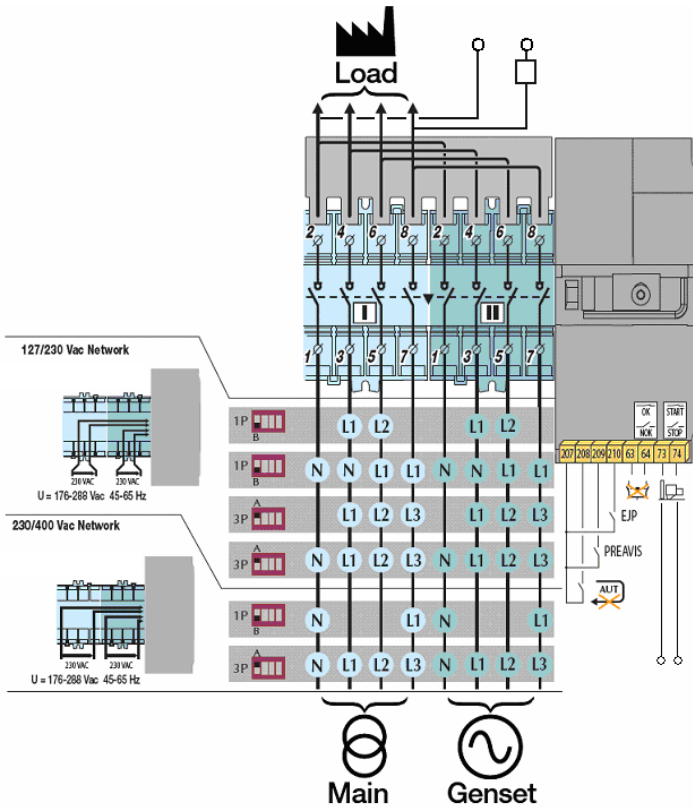
mass : 5 kg



storage :
 * temperature -20 to +70°C
 * period : 1 year max

GenPARTS

Automatic Transfer Switch V E R S O



	2A 30Vdc DC1 1A 125Vac AC1 0,5A 230Vac AC1 max 60W or 250VA	2A 30Vdc DC1 1A 125Vac AC1 0,5A 230Vac AC1 max 60W or 250VA
	OK	START
	NOK OR	STOP

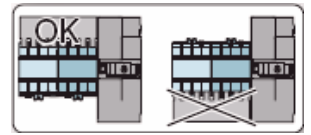
Cables (mm²)

	mini	maxi
35A	16	35
63A	25	50
80A	35	50
100A	35	50
125A	50	70*
160A	50	70*

10 to 70 mm² # 8 to # 00 AWG
 6 to 50 mm² # 10 to # 00 AWG
 15 mm / 0,59"

Hexagonal Metric Allen size 4 44,1 lb-in 5,0 Nm

X 8



OPTION

Slotted head 3,5mm 3,97 lb-in 0,45Nm

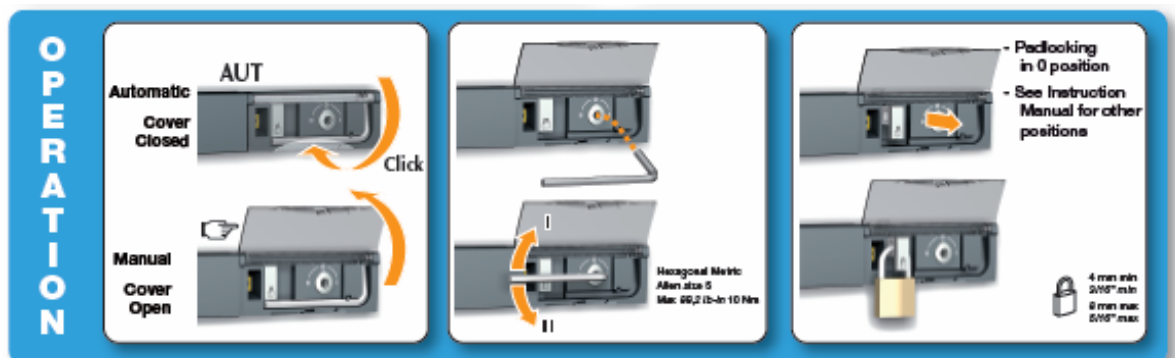
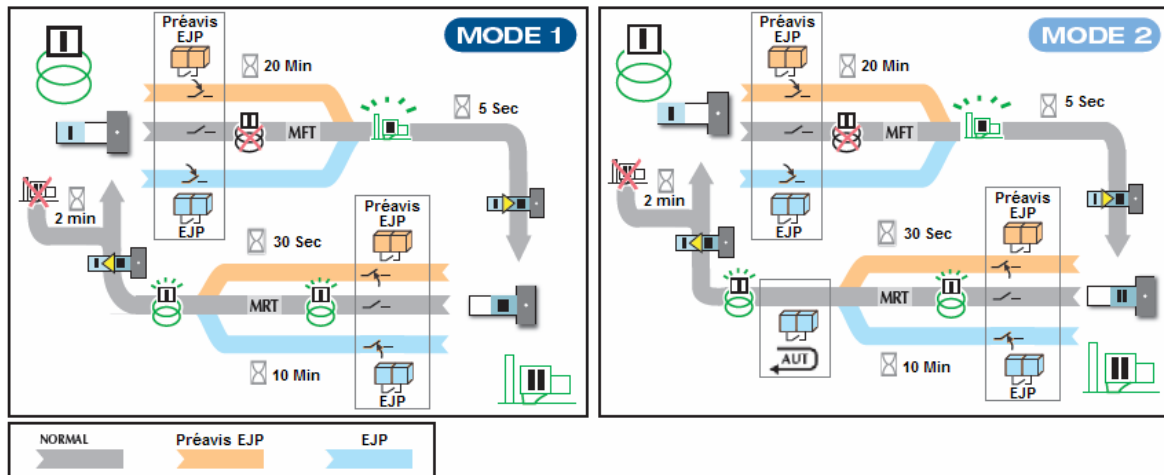
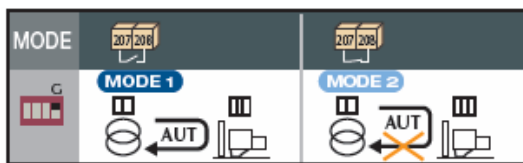
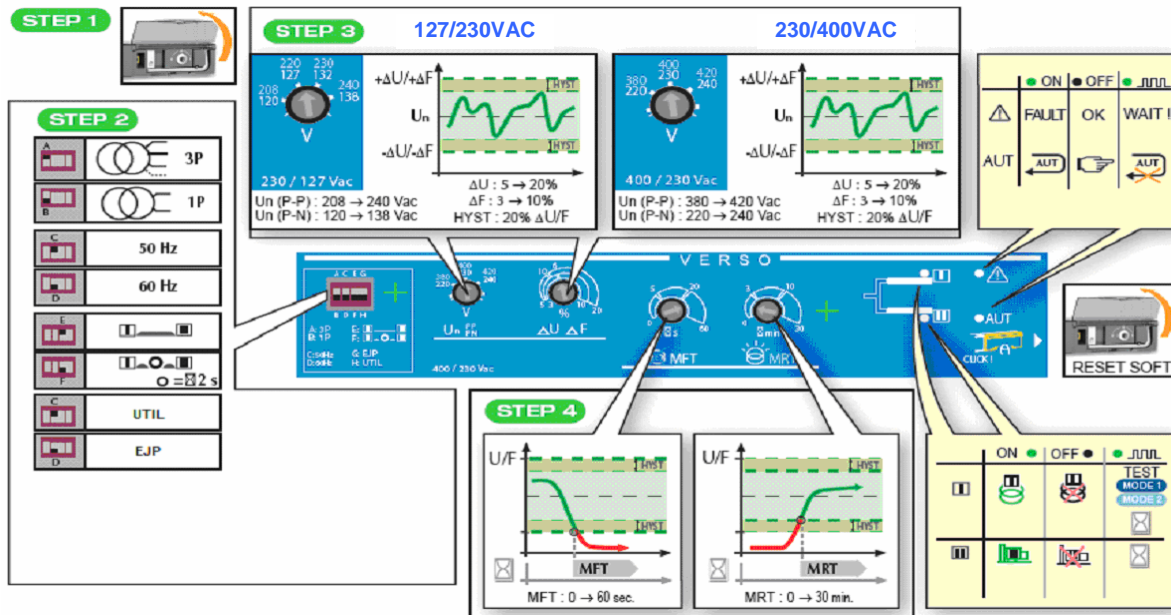
Hexagonal Metric Allen size 4 44,1 lb-in 5,0 Nm

Slotted head 3mm 3,97 lb-in 0,5Nm

0,5 to 1,5 mm² # 20 to # 14 AWG
 0,5 to 1,0 mm² # 20 to # 18 AWG
 6 mm / 0,236"

10 to 70 mm² # 8 to # 00 AWG
 6 to 50 mm² # 10 to # 00 AWG
 15 mm / 0,59"

0,5 to 2,5 mm² # 20 to # 14 AWG
 0,5 to 1,5 mm² # 20 to # 18 AWG
 6 mm / 0,236"



Options :



Référence :
31616126101NE



Référence :
31616126501NE



Référence :
31616121701NE



Référence :
31616126601NE



Référence :
31616126301NE



Référence :
31616121401NE <= 125A
31616121501NE > 125A

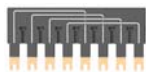


Référence :
31616126201NE

Spare parts:



	127/230 VAC	230/400 VAC
35A	31616120001NE	31616120601NE
63A	31616120101NE	31616120701NE
80A	31616120201NE	31616120801NE
100A	31616120301NE	31616120901NE
125A	31616120401NE	31616121001NE
160A	31616120501NE	31616121101NE



Reference:
31616121201NE <= 125A
31616121301NE < 125A



Reference:
31616126401NE

Allgemeine Technische Daten

<p>VERSO - Modul Netzüberwachung und Steuerung für die Leistungsumschaltung: - Parametrierbare Einstellung (Potie) - und Testfunktion</p>	<p>TSI - Modul Netzüberwachung und Steuerung für die Leistungsumschaltung: - Programmierbare Verzögerungszeiten - und Testfunktion</p>
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Technische Daten:	VERSO							TSI								
	INS (Schaltschütz)							INB (Leistungsschalter motorisch)								
	35 A	63 A	80 A	100 A	125 A	160 A	200 A	250 A	400 A	630 A	800 A	1000 A	1600 A	2000 A	2500 A	3500 A
Volt 208-440V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3 polig	X	X	X	X	X	X	●	●	●	●	●	●	●	●	●	●
4 polig	●	●	●	●	●	●	X	X	X	X	X	X	X	X	X	X
Schützkontakt	●	●	●	●	●	●	●	X	X	X	X	X	X	X	X	X
LS Schalter motorisch	X	X	X	X	X	X	X	●	●	●	●	●	●	●	●	●
Klemmen	●	●	●	●	●	●	●	X	X	X	X	X	X	X	X	X
Kupferschiene	X	X	X	X	X	X	X	●	●	●	●	●	●	●	●	●
Höhe	400	400	400	400	400	400	600	800	800	800	1000	2000	1000	1000	2000	2000
Breite	400	400	400	400	400	400	600	600	600	600	800	1000	800	800	1000	1000
Tiefe	200	200	200	200	200	200	250	400	400	400	500	800	500	500	800	800
Wandschrank	●	●	●	●	●	●	●	●	●	●	●	X	●	●	X	X
Standschrank	X	X	X	X	X	X	X	X	X	X	X	●	X	X	●	●
Schutzklasse IP23	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Gewicht: ca.kg	Ca.10 bis 20						33	60			77 bis 175			auf Anfrage		

techn. Änderungen vorbehalten

Notizen:

Schick GmbH / SDMO – Stromerzeuger Deutschland
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