

FUSTEQ SERIES

**DIESEL GENERATOR
GROUPE ELECTROGENE DIESEL
GRUPO ELECTROGENO DIESEL
GRUPPO ELETTROGENO DIESEL**

MODEL
MODELE
MODELO
MODELLO

PK 167 FQ

POWERED BY

Perkins



meccalte



ULTRA SILENT VERSION



GENERATING SET PERFORMANCE PERFORMANCES DU GROUPE PRESTACIONES DEL GRUPO PRESTAZIONI DEL GRUPPO		50 Hz	60 Hz
Voltage Voltage Voltaje Tensione		V 400 / 230	V 220/127
Continuous Power Puissance service continue Potencia servicio continuo Potenza servizio continuo	PRP	kVA 150	kVA 169
Stand-by Power Puissance service secours Potencia servicio emergencia Potenza servizio in emergenza	LTP	kVA 165	kVA 186
Continuous Power Puissance service continue Potencia servicio continuo Potenza servizio continuo	PRP	kWe 120	kWe 135,2
Stand-by Power Puissance service secours Potencia servicio emergencia Potenza servizio in emergenza	LTP	kWe 132	kWe 148,8
Power factor Facteur de puissance Factor de potencia Fattore di potenza	cos φ	0,8	0,8
Fuel consumption Consommation combustible Consumo de combustible Consumo combustibile	70 %	l/h 21,8	23,4
Noise level Niveau de bruit Nivel de ruido Livello rumorosità	dB(A)@7m	56dB(A) without load	
Limit ambient temperature Limite de la température ambiante Limite de la temperatura ambiente Limite di temperatura ambientale		55°C minimum	

ENGINE MOTEUR MOTOR MOTORE		PERKINS		1106A-70TAG2	
PERFORMANCE PERFORMANCES PRESTACIONES PRESTAZIONI		1500 rpm		1800 rpm	
Continuous Power Puissance service continue Potencia servicio continuo Potenza servizio continuo	PRP	kWm	132,6	kWm	154
Stand-by Power Puissance service secours Potencia servicio emergencia Potenza servizio in emergenza	LTP	kWm	145,7	kWm	170,6
Specific fuel consumption Consommation spécifique combustible Consumo específico de combustible Consumo specifico combustibile		g/kWh	50 % 197,9 75 % 199,7 100 % 203,3 110 % 201,1	g/kWh	50 % 202,1 75 % 208,4 100 % 205,1 110 % 203,1
Diesel 4 Stroke – Injection type Diesel 4 temps – Type injection Diesel 4 tiempos – Tipo de inyeccion Diesel a 4 tempi – Tipo di iniezione					Direct Directe Directa Diretta
Aspiration type Type d'aspiration Tipo de aspiracion Tipo d'aspirazione					Turbocharged Suraalimentée sobrealimentato sovralimentata
Cooling system Refroidissement Sistema de refrigeracion Raffreddamento					Water Eau Agua Acqua
Speed governor Régulateur de tours Regulador Regolatore di giri					Electronic Electronique Electronico Elettronico
Cylinders, numbers and arrangement Nombre et disposition des cylindres Cilindros, numero y disposicion Numero e disposizione dei cilindri					6L
Total displacement Cylindrée totale Cilindrata total Cilindrata totale				cm ³	7.010
Bore x stroke Alésage x course Diametro x carrera Alesaggio x corsa				mm	105.0 x 135.0
Compression ratio Rapport de compression Relación de compresión Rapporto di compressione					18.2 :1
Engine electric system voltage Voltage système électrique moteur Voltaje sistema eléctrico motor Voltaggio sistema elettrico motore					12 V
Derating for temperature Déclassement pour temperature Declasamiento para temperatura Declassamento per temperatura				0 ÷ 25°C > 25 °C	0 2 % / 10°C
Derating for altitude Déclassement pour altitude Declasamiento para altitud Declassamento per altitudine				0 ÷ 1000 m > 1000m	0 1,5 % / 500 m

ALTERNATOR ALTERNATEUR ALTERNADOR ALTERNATORE		MECCALTE	
PERFORMANCE PERFORMANCES PRESTACIONES PRESTAZIONI		1500 rpm	1800 rpm
Model Modèle Modelo Modello		ECP34-2L/4	ECP34-2L/4
Continuous Power Puissance service continue Potencia servicio continuo Potenza servizio continuo	40 °C	KVA 150,0 kWe 120,0	KVA 170,0 kWe 136,0
Stand-by Power Puissance service secours Potencia servicio emergencia Potenza servizio in emergenza	40 °C	KVA 157,0 kWe 125,6	KVA 189,0 kWe 151,2
Stand-by Power Puissance service secours Potencia servicio emergencia Potenza servizio in emergenza	27 °C	KVA 164,0 kWe 131,2	KVA 196,0 kWe 156,8
Efficiency Rendement Eficienza Efficienza		2/4 92,0 % 3/4 93,5 % 4/4 93,2 %	2/4 93,8% 3/4 95,2% 4/4 95%
Standard winding connections Liaison des bobinages Tipo de conexión Collegamento avvolgimenti		Y	YY
Exciter Excitatrice Excitador Excitatrice	brushless rotating exciter design with solid state pivotante sans brosses avec pont de diodes pivotants puente de diodos sin escobillas rotantes rotante senza spazzole con ponte di diodi rotanti		
Poles Poles Polos Poli		4	
Phases Phases Fases Fasi		3 + N	
Wires Fils Hilos Morsetti		12	
Voltage accuracy Regulation Voltage Regulación voltaje Regolazione tensione		± 1 %	
Insulation class Classe d' isolation Classe de aislamiento Classe di isolamento		H	
Enclosure Degré de protection mécanique Grado de protección mecánica Grado di protezione meccanica		IP 21	
Air volume Volume d'air Volumen de aire Volume d'aria		50 Hz 19,3 m³/min 60 Hz 23,0 m³/min	
Standard AVR model Modèle AVR standard Modelo AVR standard Modello AVR standard		DSR	
Derating for temperature Déclassement pour temperature Declasamiento para temperatura Declassamento per temperatura		0 ÷ 40°C 0 > 40 °C 3 % / 5°C	
Derating for altitude Déclassement pour altitude Declasamiento para altitud Declassamento per altitudine		0 ÷ 1500 m 0 1500 ÷ 2500 m 3% / 500 m 2500 ÷ 3000 m 4% / 500 m	

LOGISTIC INFORMATION INFORMATIONS LOGISTIQUES INFORMATION LOGISTICA INFORMAZIONI LOGISTICHE

	Integrated fuel tank capacity Capacité réservoir intégré Capacidad Tanque integrado Capacità Serbatoio integrato		Weight Poids Peso Peso	Dimensions Cotes d'encombrement Medidas externas Dimensioni d'ingombro		
	(L.)		(kg)	(cm)		
	STD	EXTRA1		L	W	H
SOUND PROOF VERSION VERSION INSONORISEE VERSION INSONORISADA VERSIONE INSONORIZZATA	700	ON REQUEST	2190	345	114	218

GENSET STANDARD EQUIPMENT EQUIPEMENT STANDARD GROUPE ELECTROGENE EQUIPAMIENTO STANDARD GRUPO ELECTROGENO EQUIPAGGIAMENTO STANDARD GRUPPO ELETTROGENO

GB	F	E	I
✓ Lifting eye ✓ Fully bunded fuel tank ✓ Integrated fuel tank ✓ Vibration dampers ✓ One or more electric fans controlled by Inverter VSi ✓ Manual autostart control panel ACP7310AUS with circuit breaker ✓ Battery ✓ Ultra silent canopy ✓ Residential silencer ✓ Fork lift guides	✓ Crochet de levage ✓ Bac de rétention ✓ Réservoir intégré ✓ Amortisseurs de vibration ✓ Un ou plusieurs ventilateurs électriques commandés par Inverter VSi ✓ Démarrage manuel autostart ACP7310AUS avec disjoncteur de protection ✓ Batterie ✓ Capotage ultra-silencieux ✓ Silencieux résidentielle ✓ Supports pour fourches	✓ Gancho central ✓ Tanque del combustible con sistema de recolección de líquidos ✓ Tanque de combustible integrado ✓ Sistema de amortiguación anti-vibrante ✓ Uno o más ventiladores eléctricos controlados para Inverter Vsi ✓ Cuadro manual autostart ACP7310AUS con interruptor magnetotérmico ✓ Batería ✓ Cabina ultra-silenciosa ✓ Silenciador residencial ✓ Soportes para carretilla	✓ Gancio di sollevamento centrale ✓ Serbatoio con vasca di raccolta liquidi ✓ Serbatoio integrato ✓ Anti vibranti ✓ Una o più ventole elettriche controllate da tecnologia Inverter VSi ✓ Quadro di comando manuale autostart ACP7310AUS con interruttore magnetotermico ✓ Batteria ✓ Cabina ultra silenziosa ✓ Marmitta residenziale ✓ Porta forche

MANUAL AUTOSTART CONTROL PANEL COFFRET ELECTRIQUE MANUEL AUTOSTART CUADRO ELECTRICO MANUAL AUTOSTART QUADRO ELETTRICO MANUALE AUTOSTART

ACP 7310 AUS

225 A (400 V - 3 ph - 50Hz - 1500 rpm)

630 A (220 V - 3 ph - 60Hz - 1800 rpm)

STANDARD EQUIPMENT:	EQUIPEMENT STANDARD:	EQUIPAMIENTO STANDARD:	EQUIPAGGIAMENTO STANDARD:
4 poles circuit breaker Electronic control board DSE 7310 Control panel box key Emergency Stop button	Disjoncteur de protection 4 pôles Fiche électronique DSE 7310 Clé pour serrure du coffret Interrupteur d'arrêt d'urgence	Interruptor magnetotérmico 4 polos Carta electronica DSE 7310 Llave cuadro Botón de parada de emergencia	Interruttore magnetotérmico 4 poli Scheda elettronica DSE 7310 Chiave quadro Pulsante di arresto di emergenza



**DSE
7310**

CONTROL BOARD CARTE ELECTRONIQUE DE CONTROL CARTA ELETTRONICA DE CONTROL SCHEDA ELETTRONICA DI CONTROLLO

PROTECTIONS	PROTECTIONS	PROTECCIONES	PROTEZIONI
Low oil pressure High engine temperature Low fuel level Fail to start Fail to stop Emergency stop Over/under generator frequency Over/under generator voltage Over/under speed Fuel level Belt breakage Over current Over/under battery voltage	Basse pression huile moteur Haute température moteur Basse niveau combustible Non démarrage Non arrêt Arrêt d'urgence Sur/sous générateur fréquence Sur/sous générateur voltage Sur/sous vitesse Niveau de combustible Rupture courroie Surcoursant Sur/sus la tension de batterie	Baja presión aceite Elevada temperatura motor Baja nivel carburante Falta de arranque Falta de parada Parada de emergencia Sobre/bajo generatore frecuencia Sobre/bajo generatore voltaje Sobre/bajo velocidad nivel de combustible Ruptura correa Corriente maxima Sobre/bajo voltaje de la batería	Bassa pressione olio Alta temperatura motore Basso livello di carburante Mancato avviamento Mancato arresto Stop d'emergenza Sovra/sotto frequenza generatore Sovra/sotto voltaggio generatore Sovra/sotto velocità Livello del carburante Rottura cinghia Sovracorrente Sovra/sotto tensione della batteria
DIGITAL METERS	VOYANT NUMERIQUE POUR	VISOR DIGITAL PARA	MISURATORE DIGITALE PER
Generator volts (3 phases) Generator amperes (3 phases) Generator frequency KW-meter kVA-meter Cos φ- meter Rpm meter Gen set hours counter Battery Volts	Voltmètre générateur (3 phases) Ampèremètre générateur (3 phases) Fréquencemètre générateur KW- mètre kVA- mètre Cos φ- mètre Tm mètre Totalisateur d'heures de marche Voltmètre batterie	Voltmetro (3 fases) Amperímetro (3 fases) Frecuencímetro KW- metro kVA- metro Cos φ- metro Revoluciones por minuto metro Medida horas de marcha Voltmetro batería	Voltmetro tensione generatore (3 fasi) Amperometro generatore (3 fasi) Frequenzimetro generatore KW- metro kVA- metro Cos φ- metro Gm metro Contaore di funzionamento gruppo Voltmetro batteria

**AUTOMATIC CONTROL PANEL
COFFRET ELECTRIQUE AUTOMATIQUE
CUADRO ELECTRICO AUTOMATICO
QUADRO ELETTRICO AUTOMATICO**

1)		ACP 7320 ATS 		COMPLETE CONTROL PANEL FREE STANDING TYPE Equipment: control board, circuit breaker, battery charger, transfer switch, box key. COFFRET ELECTRIQUE COMPLET TYPE ARMOIRE SEPRE DU GROUPE Equipement : carte électronique de contrôle, disjoncteur de protection, chargeur de batterie, inverseur de source, clé coffret. CUADRO ELECTRICO COMPLETO EN ARMARIO SEPARADO DEL GRUPO Equipamiento: carta electronica de controllo, interruptor magnetotermico, cargador de bateria, transferencial, llave quadro. QUADRO ELETTRICO COMPLETO SEPARATO DAL GRUPPO Equipaggiamento: scheda elettronica di controllo, interruttore magnetotermico, carica batteria, telecommutazione e chiave quadro.			
2)		ACP 7320 AMF 		AMF CONTROL PANEL FITTED ON THE GEN-SET WITHOUT TRANSFER SWITCH Equipment: control board, circuit breaker, battery charger, box key. COFFRET ELECTRIQUE MONTE SUR LE GROUPE SANS INVERSEUR DE SOURCE Equipement : carte électronique de contrôle, disjoncteur de protection, chargeur de batterie, clé coffret. CUADRO ELECTRICO MONTADO SOBRE EL GRUPO SIN TRANSFERENCIAL Equipamiento: carta electronica de controllo, interruptor magnetotermico, cargador de bateria, llave quadro. QUADRO ELETTRICO MONTATO SUL GRUPPO ELETTROGENO SENZA TELECOMMUTAZIONE Equipaggiamento: scheda elettronica di controllo, interruttore magnetotermico, carica batteria, chiave quadro.			
3)		ACP 7320 STS  		CONTROL PANEL FITTED ON THE GEN-SET WITH TRANSFER SWITCH SUPPLIED IN A SEPARATED BOX Equipment: control board, circuit breaker, battery charger, box key, separate transfer switch. COFFRET ELECTRIQUE MONTE SUR LE GROUPE + INVERSEUR DE SOURCE FOURNI DANS UN COFFRET SEPRE Equipement : carte électronique de contrôle, disjoncteur de protection, chargeur de batterie, inverseur de source séparé, clé coffret. CUADRO ELECTRICO MONTADO SOBRE EL GRUPO CON TRANSFERENCIAL SEPARADO Equipamiento: carta electronica de controllo, interruptor magnetotermico, cargador de bateria, llave quadro, transferencial separado. QUADRO ELETTRICO MONTATO SUL GRUPPO ELETTROGENO CON TELECOMMUTAZIONE SEPARATA Equipaggiamento: scheda elettronica di controllo, interruttore magnetotermico, carica batteria, chiave quadro, telecommutazione in armadio separato.			
 DSE 7320		CONTROL BOARD CARTE ELECTRONIQUE DE CONTROL CARTA ELECTRONICA DE CONTROL SCHEMA ELETTRONICA DI CONTROLLO					
GB		F		E		I	
The DSE7320 is an Automatic Mains Failure Control Module designed to automatically start and stop diesel generating sets that include electronic and non electronic engines. The module also provides excellent genset monitoring and protection features.		La DSE7320 est une carte de contrôle projetée pour démarrer et arrêter automatiquement groupes électrogènes diesel avec moteurs électroniques et non électroniques. La carte représente un système excellent de contrôle et de protection du groupe électrogène.		La DSE7320 es una carta de control para arrancar y parar automáticamente grupos electrógenos diesel con motores electrónicos y no electrónicos. La carta constituye un excelente sistema de control y protección del grupo electrógeno.		La DSE7320 è una scheda di controllo progettata per avviare e arrestare automaticamente gruppi elettrogeni diesel con motori elettronici e non elettronici. La scheda costituisce un eccellente sistema di controllo e di protezione del gruppo elettrogeno.	
FEATURES		EQUIPEMENT		EQUIPMENT		EQUIPAGGIAMENTO	
Stop/restart – Auto – Manual – Start LCD display scroll Event log view Acoustic alarm		Fiche électronique de contrôle DSE7320 Disjoncteur de protection Chargeur de batterie Bouton poussoir arrête d'urgence		Ficha electrónica de control DSE7320 Interrupor magnetotermico Cargador de batería Boton de parada de emergencia		Scheda elettronica di controllo DSE7320 Interruttore magnetotermico Carica batteria Pulsante stop emergenza	
DIGITAL MEASURING		MESURES NUMERIQUES		MEDIDAS DIGITALES		MISURAZIONI DIGITALI	
Generator volts (3 phases) Generator amperes (3 phases) Generator frequency KW-meter kVA-meter Cos φ- meter Rpm meter Water temperature (optional) Oil pressure (optional) Gen set hours counter Mains volts Battery volts Mains frequency Charging voltage Start-counter Fuel level %		Voltmètre générateur (3 phases) Ampèremètre générateur (3 phases) Fréquencemètre générateur KW- mètre kVA- mètre Cos φ- mètre Tm mètre Température eau (facultatif) Pression huile (facultatif) Totalisateur d'heures de marche Voltmètre secteur Voltmètre batterie Fréquence réseau Tension de charge Compteur démarrages Niveau combustible %		Voltmetro (3 fases) Amperimetro (3 fases) Frecuencimetro KW- metro kVA- metro Cos φ- metro Revoluciones por minuto metro Termometro agua (opcional) Presión aceite (opcional) Medida horas de marcha Voltmetro tensión de red Voltmetro batería Frecuencia red Tensión de carga Numero de arranques Nivel carburante %		Voltmetro tensione generatore (3 fasi) Amperometro generatore (3 fasi) Frequenzimetro generatore KW- metro kVA- metro Cos φ- metro Gm metro Temperatura acqua (facoltativo) Pressione olio (facoltativo) Contaore di funzionamento gruppo Voltmetro tensione rete Voltmetro batteria Frequenza rete Tensione di carica Contavviamenti Livello carburante %	
INDICATORS		INDICATEURS		INDICADORES		INDICATORI	
Mains live Generator live Mains contactor closed Generator contactor closed Engine running		Présence secteur Présence tension générateur Inverseur secteur fermé Inverseur générateur fermé Moteur en marche		Presencia tensión de red Presencia tensión grupo Transferencial red cerrado Transferencial grupo cerrado Motor en marcha		Presenza tensione di rete Presenza tensione generatore Erogazione da rete Erogazione da gruppo Motore avviato	
PROTECTIONS		PROTECTIONS		PROTECCIONES		PROTEZIONI	
Low oil pressure High engine temperature Low fuel level Fail to start Fail to stop Emergency stop Over/under frequency Over/under voltage Over/under speed Fuel level Belt breakage Over current Over/under batterv voltage		Bas pression huile moteur Haute température moteur Bas niveau combustible Non démarrage Non arrêt Arrêt d'urgence Sur/sous fréquence Sur/sous voltage Sur/sous vitesse Niveau de combustible Rupture courroie Surcoursant Sur/sus la tension de batterie		Baja presión aceite Elevada temperatura motor Baja nivel carburante Falta de arranque Falta de parada Parada de emergencia Sobre/bajo frecuencia Sobre/bajo voltaje Sobre/bajo velocidad nivel de combustible Ruptura correa Corriente maxima Sobre/bajo voltaie de la batería		Bassa pressione olio Alta temperatura motore Basso livello di carburante Mancato avviamento Mancato arresto Stop d'emergenza Sovra/sotto frequenza Sovra/sotto voltaggio Sovra/sotto velocità Livello del carburante Rottura cinghia Sovracorrente Sovra/sotto tensione della batteria	

1100 Series 1106A-70TAG2 Diesel Engine – Electropak

144.1 kWm net power @ 1500 rpm
164 kWm net power @ 1800 rpm

Building upon Perkins proven reputation within the power generation industry, the 1100 Series range of Electropak engines now fit even closer to customers needs.

In the world of power generation success is only gained by providing more for less. With the 1106A-70TAG Perkins has engineered even higher levels of reliability, yet lowered the cost of ownership.

1100A units are designed for territories that do not require compliance to EPA or EU emissions legislation. These engines are assembled around optimal, efficient manufacturing processes with state-of-the-art technology. They are built to provide the exact power solution for customers who sell their applications into lesser regulated countries.

Focusing on our common platform theme, changes to engine envelope dimensions and connection points have been kept to a minimum.



Dependable power

- The Perkins 1106A-70TAG2 delivers up to 165 kVA standby at 50 Hz and 150 kWe standby at 60 Hz, providing greater productivity through an improved power to weight ratio
 - This world-class power density has been achieved in a 7 litre engine, using a mechanical fuel injection system; making this engine robust for all markets, with the ability to cope with the variation of fuel qualities around the world
- The 1106A has been designed for excellent load acceptance to ensure your facility is powered quickly at all conditions

Low operating costs

- Service intervals are set at 500 hours as standard
- Perkins provides comprehensive warranty cover for two years (up to 3,000 hours), with three years on major engine components
- A low usage warranty package is also available

World class product support

- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their finger tips, covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide you with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts giving 100% reassurance that you receive the very best in terms of quality for lowest possible cost... wherever your Perkins powered machine is operating in the world

Discover more

www.perkins.com

www.perkins.com/esc

www.perkins.com/distributor

To find your local distributor

Engine Speed rpm	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime Power	150	120	136.0	182.4	131.0	175.7
	Standby (maximum)	165	132	153.6	206.0	144.1	193.2
1800	Prime Power	169	135	155.0	207.9	147.0	197.1
	Standby (maximum)	188	150	176.0	236.0	164.0	218.6

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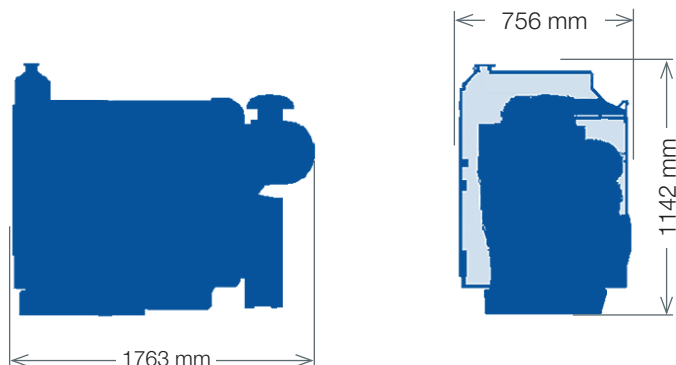
Perkins®

THE HEART OF EVERY GREAT MACHINE

1100 Series 1106A-70TAG2 Diesel Engine – Electropak

144.1 kWm net power @ 1500 rpm

163 kWm net power @ 1800 rpm



Engine specification

- Tropical radiator pipes and guards
- Flywheel housing
- Flywheel and starter ring
- Oil filters
- Starter motor
- Air cleaners and brackets
- Lubricating oil sump
- Alternator
- Induction manifolds
- Exhaust manifolds
- Fuel filter
- Cold start aid
- Engine mountings

Engine data

Number of cylinders Vertical in-line 6 cylinder
Bore and stroke..... 105 x 135 mm (4.13 x 5.31 in)
Displacement 7.01 litres (428 cubic in)
Aspiration Turbocharged aftercooled
Cycle.....4 stroke
Combustion system.....Direct injection
Compression ratio 16:1
Engine rotationAnti-clockwise viewed on flywheel
Cooling system..... Liquid
Total lubrication capacity..... 16.5 litres (4.36 US gal)
Total coolant capacity 21 litres (5.5 US gal)
Dimensions – Length 1763 mm (69.4 in) with air cleaner
Width 756 mm (29.8 in)
Height 1142 mm (45 in)
Dry weight 788 kg (1737 lbs)

Final weight and dimensions will depend on completed specification

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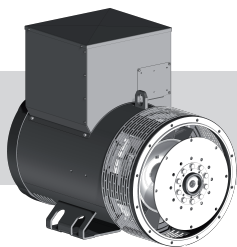
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THE HEART OF EVERY GREAT MACHINE



ECP34

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4 POLE A

CHARACTERISTICS

INDUSTRIAL RATINGS

ambient 40° C

Type	kVA - cos ϕ 0.8 - 3 Phase continuous							Efficiency		
50 Hz	CL. H ($\Delta T = 125^{\circ}\text{C}$)				CL. F ($\Delta T = 105^{\circ}\text{C}$)			η %	CL. H ($\Delta T = 125^{\circ}\text{C}$)	
Series Star Y	380	400	415		380	400	415			
Parallel Star YY	190	200	208	IP45	190	200	208			
Series Delta Δ	220	230	240	400 V	220	230	240	2/4	3/4	4/4
Parallel Delta $\Delta\Delta$	110	115	120		110	115	120			
ECP34-1S/4	85	85	85	65	77	77	77	90	91,9	91,5
ECP34-2S/4	105	105	105	85	95	95	95	90,7	92,5	92,2
ECP34-1L/4	135	135	135	108	121	121	121	91,7	93,4	92,8
ECP34-2L/4	150	150	150	120	136	136	136	92	93,5	93,2
ECP34-3L/4	155	160	160	125	140	145	145	92,3	93,7	93,5

60 Hz	CL. H ($\Delta T = 125^{\circ}\text{C}$)				CL. F ($\Delta T = 105^{\circ}\text{C}$)			Efficiency		
Series Star Y	440	460	480		440	460	480			
Parallel Star YY	220	230	240	IP45	220	230	240			
Series Delta Δ	254	265	277	480 V	254	265	277			
Parallel Delta $\Delta\Delta$	127	133	138		127	133	138	2/4	3/4	4/4
ECP34-1S/4	102	102	102	78	92	92	92	91,8	93,8	93,4
ECP34-2S/4	126	126	126	102	114	114	114	92,3	94,1	93,8
ECP34-1L/4	150	162	162	130	135	146	146	93,5	95	94,6
ECP34-2L/4	170	180	180	144	150	163	163	93,8	95,2	95
ECP34-3L/4	185	192	192	150	160	173	173	94,1	95,5	95,3

STANDBY RATINGS

Type	kVA Temp. Rise / Ambient $^{\circ}\text{C}$			kVA Temp. Rise / Ambient $^{\circ}\text{C}$		
	50 Hz			60 Hz		
	163° / 27°	150° / 40°	125° / 27°	163° / 27°	150° / 40°	125° / 27°
ECP34-1S/4	95	90	90	114	108	108
ECP34-2S/4	116	110	110	139	132	132
ECP34-1L/4	148	143	143	178	172	172
ECP34-2L/4	164	158	158	196	189	189
ECP34-3L/4	175	169	169	210	202	202

Type	J (kgm ²) B3-B14 FORM	Weight MD35 (kg)	Air Volume		Noise dB(A)			
					50 Hz		60 Hz	
			50 Hz (m ³ /min)	60 Hz (m ³ /min)	1m	7m	1m	7m
ECP34-1S/4	0,7366	331	19,3	23	79	65	83	69
ECP34-2S/4	0,9060	409						
ECP34-1L/4	0,9923	467						
ECP34-2L/4	1,1190	481						
ECP34-3L/4	1,1666	485						

ACCESSORIES

REGULATOR				PARALLEL DEVICE	THERMAL PROTECTION			HEATERS	MECHANICAL PROTECTION		
DSR	DER-1	SR7/2	UVR6		PTC	BIMET. DEVICE	PT100		IP23	IP45	IP55
☒	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐

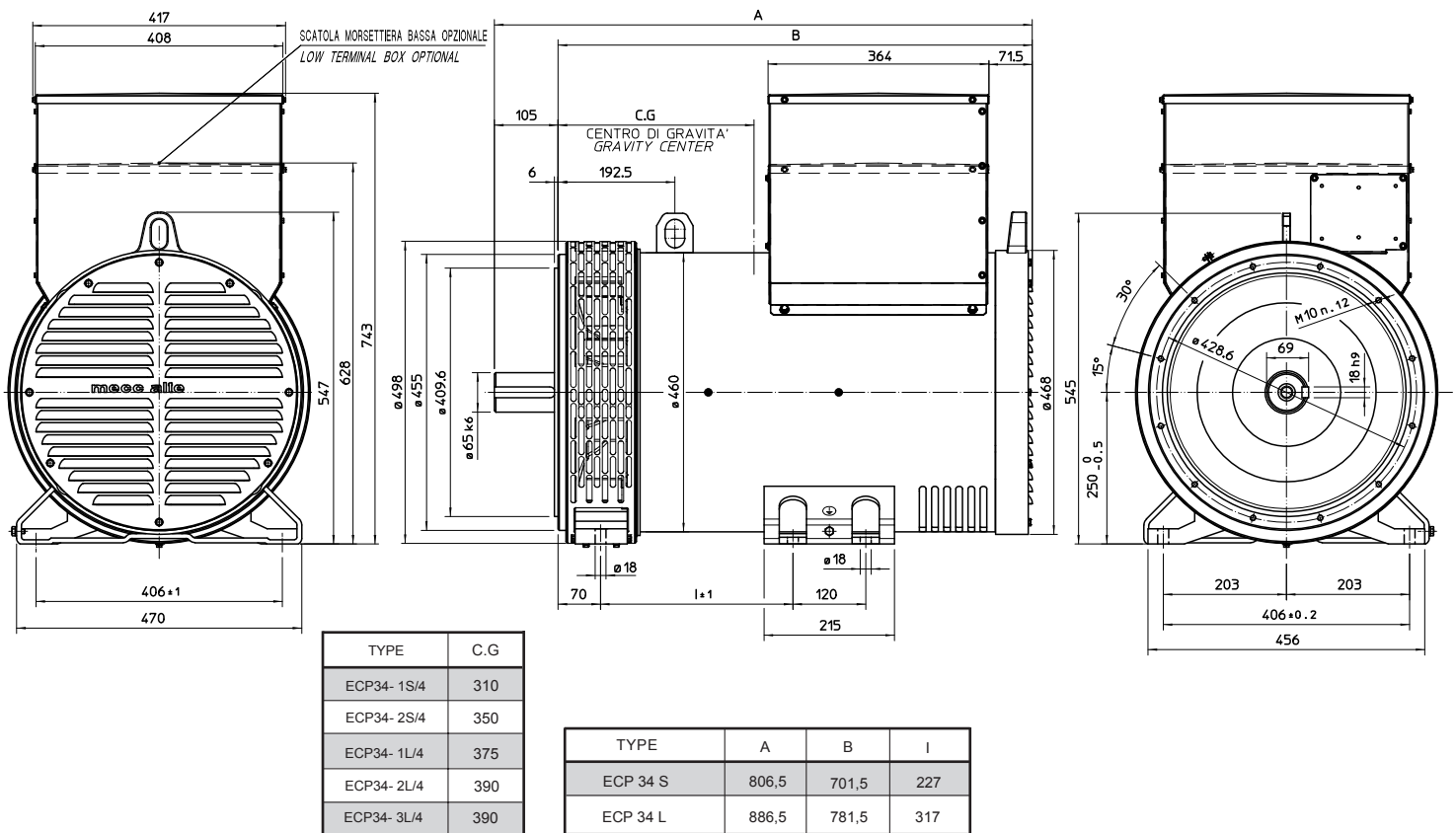
● = Standard

□ = Optional

 Rating


OVERALL DIMENSIONS B3 - B14 FORM

dimensions in mm



OVERALL DIMENSIONS MD35 FORM

dimensions in mm

