



DESIGN APPROVAL CERTIFICATE

Certificate No. : MIL05867-EL001

Initial Approval : 20th December, 2006.

Product : Electric Generator

Manufacturer : Mecc Alte S.p.A.
Via Roma n'20, 36051 Creazzo, Vicenza, ITALY

Product Description : Type : "ECP/ECO" Series

" See Appendix 1 "

Approval Condition : Individual Product Certification is required.

THIS IS TO CERTIFY that the design of the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 6, Ch. 1, Sec. 2 of the Rules for Classification, Steel Ships.

This Certificate is valid until 19th December, 2016.

Issued at Daejeon, Korea on 19th December, 2011.



KOREAN REGISTER OF SHIPPING

*General Manager of
Materials and Equipment Team*

Note : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

Appendix 1

Product Description and/or Approval Condition

Certificate No : MIL05867-EL001

Date of Issue : 19th December, 2011.

1. Product Description :

Type	Class	Output (kW)	Speed (rpm)	Cycle (Hz)	Phase	Voltage (V)
ECP34-2S/4	H	84/84/84/68	1500	50	3	380/400/415/440
		92/101/101/101/101/101	1800	60	3	415/440/445/450/460/480
	F	76/76/76/61.6	1500	50	3	380/400/415/440
		83.2/91.2/91.2/91.2/91.2/91.2	1800	60	3	415/440/445/450/460/480
ECP34-2L/4	H	120/120/120/100	1500	50	3	380/400/415/440
		120/136/140/140/144/144	1800	60	3	415/440/445/450/460/480
	F	109/109/109/90.4	1500	50	3	380/400/415/440
		106/120/128/128/130/130	1800	60	3	415/440/445/450/460/480
EC038-3SN/4	H	180/180/180/168	1500	50	3	380/400/415/440
		208/216/216/216/216/216	1800	60	3	415/440/445/450/460/480
	F	166/166/166/152	1500	50	3	380/400/415/440
		192/200/200/200/200/200	1800	60	3	415/440/445/450/460/480
EC038-1LN/4	H	200/200/200/184	1500	50	3	380/400/415/440
		232/240/240/240/240/240	1800	60	3	415/440/445/450/460/480
	F	184/184/184/172	1500	50	3	380/400/415/440
		216/224/224/224/224/224	1800	60	3	415/440/445/450/460/480
EC038-2LN/4	H	240/240/240/232	1500	50	3	380/400/415/440
		260/272/280/280/288/288	1800	60	3	415/440/445/450/460/480
	F	220/220/220/212	1500	50	3	380/400/415/440
		240/248/256/256/264/264	1800	60	3	415/440/445/450/460/480
EC040-2S/4	H	360/360/360/336	1500	50	3	380/400/415/440
		384/408/420/420/432/432	1800	60	3	415/440/445/450/460/480
	F	328/328/328/308	1500	50	3	380/400/415/440
		348/368/380/380/392/392	1800	60	3	415/440/445/450/460/480
EC040-1L/4	H	440/440/432/400	1500	50	3	380/400/415/440
		456/504/516/516/528/528	1800	60	3	415/440/445/450/460/480
	F	400/400/392/363	1500	50	3	380/400/415/440
		412/456/468/468/480/480	1800	60	3	415/440/445/450/460/480
EC040-2L/4	H	544/544/544/504	1500	50	3	380/400/415/440
		576/624/640/640/653/653	1800	60	3	415/440/445/450/460/480
	F	504/504/504/468	1500	50	3	380/400/415/440
		532/576/592/592/605/605	1800	60	3	415/440/445/450/460/480

2. Approved Drawings :

ECP34-2S/4 - A5738/04, A5546/02, 9939/05, DS013A/4, DS013A/5, A2545_03, A6197/00
 ECP34-2L/4 - A5738/04, A5544/02, 9939/05, DS015A/4, DS015A/5, A2545_03, A6197/00
 EC038-3SN/4 - A5078/02, A5825/04, 9769/02, DS072A/4, DS072A/5, A2549_03, A2074/05
 EC038-1LN/4 - A5078/02, A5826/05, 9769/02, DS073A/4, DS073A/5, A2549_03, A2074/05
 EC038-2LN/4 - A5078/02, A5826/05, 9769/02, DS074A/4, DS074A/5, A2549_03, A2074/05
 EC040-2S/4 - A4780/02, A4055/05, 9769/02, DS023A/4, DS023A/5, A2549_03, A1859/07
 EC040-1L/4 - A4780/02, A4056/04, 9769/02, DS025A/4, DS025A/5, A2549_03, A1859/07
 EC040-2L/4 - A4780/02, A4056/04, 9769/02, DS026A/4, DS026A/5, A2549_03, A1859/07

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