

■ Features

- Non-clog single channel impeller
Non-clog single channel impeller has 3" spherical passage and prevents clogging.
- Robust construction
Large diameter and short overhang shaft, rugged cast iron construction, all fasteners of stainless steel and 4 pole motor drive.
- Double mechanical seal in oil chamber
An oil lubricated double mechanical seal with lower faces of hard silicon carbide provides strong and reliable shaft sealing
- High efficiency, Energy saving
Hydraulic well designed single channel impeller gives high efficiency and saves energy
- Long life
Short overhanged shaft, big bearings and high grade mechanical seal give longer life.
- In built motor protection
Quick acting dual response overloads provides protection against overload, lock or open phase for model 2.2 kW. Models 3.7 kW and above have miniature thermal protectors.

■ Applications

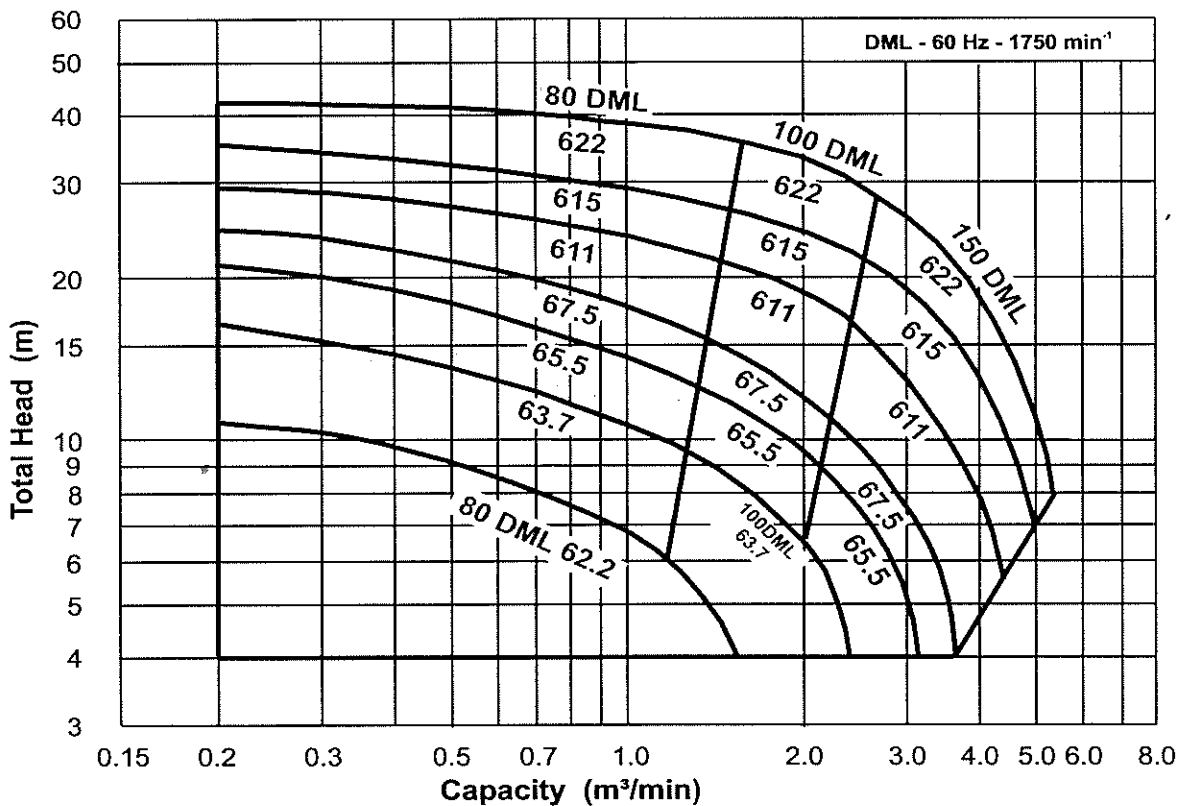
- Sewage
 - Waste water
-

Specifications

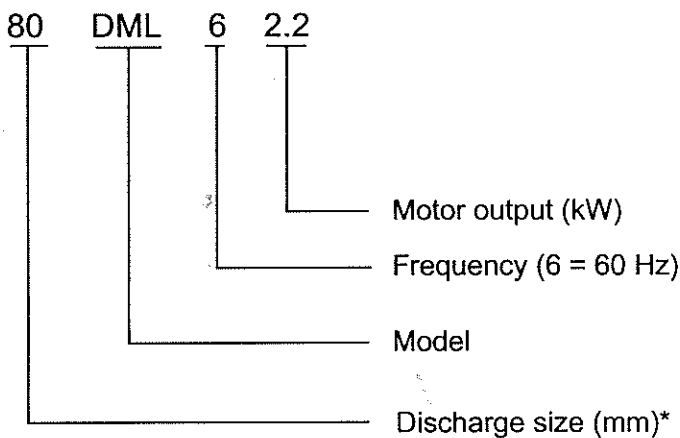
60Hz

		Standard	Optional
Scope	Discharge	80 – 150 mm	
	Motor Power	2.2 – 22 kW (3phase)	
	Performance	Capacity : 0.2 – 5.1 m ³ /min Head : 4 – 41.5 m.	
Liquid	Type	Sewage	
	Maximum temperature	40° C	
	Max. solids	refer to table below	
Submergence	Maximum	8 m	
	Minimum	Refer to low water level (L.W.L.) in dimensions.	
Construction	Impeller	Non-clog single channel	
	Mechanical Seal	Oil lubricated, double mechanical seal	
Materials	Casing	Cast Iron	
	Impeller	Cast Iron	
	Suction Cover	Cast Iron	
	Shaft	403 Stainless Steel	
	Motor Frame	Cast Iron	
	Fasteners	304 Stainless Steel	
	Mechanical Seal	Upper Faces : Carbon / Ceramic Lower Faces : Silicon Carbide / Silicon Carbide Lubricating Oil: Turbine Oil VG32 (SAE10W/20W)	
Motor	Type	Air filled dry submersible, IP68, Class F insulation	
	Nominal Speed	4 pole 1750 rpm	
	Applicable Voltages	380/440/460/480 volts 3 phase 60 Hz	220/230 volts
	Starting	DOL (2.2 kW) Star-Delta (3.7 to 22 kW)	
	Protection	In built overload protection (2.2 kW) Miniature thermal protector (3.7 to 22 kW)	
	Bearings	Pre lubricated*sealed ball bearings	
Cable	Length	10m	
Accessories	Flange	Discharge elbow with screwed companion flange	
			Quick Discharge Connector (QDC)

Solids Handling				
Model	- discharge	80 Ø	100 Ø	150 Ø
	- motor kW	All	All	All
Max. Diameter of Solids		76 mm		



Model code

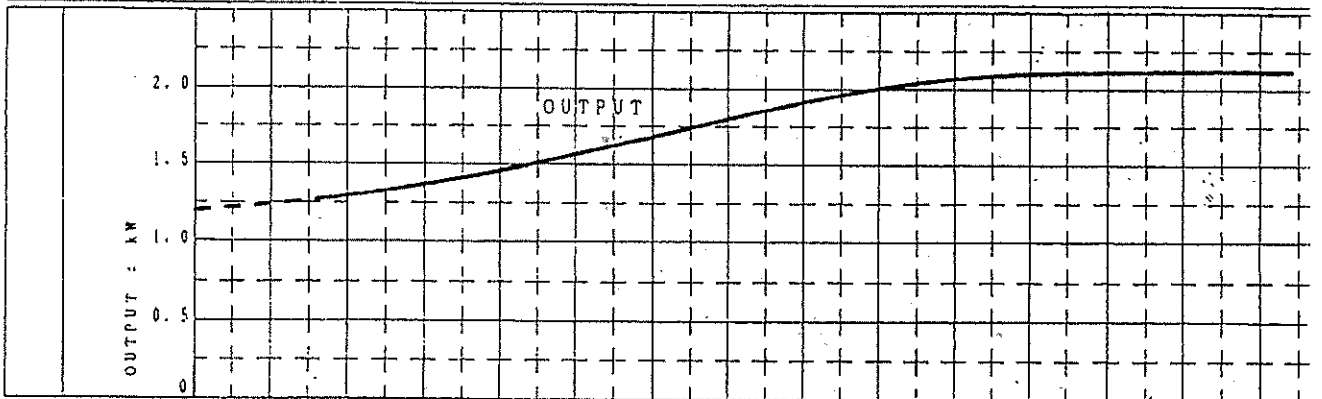
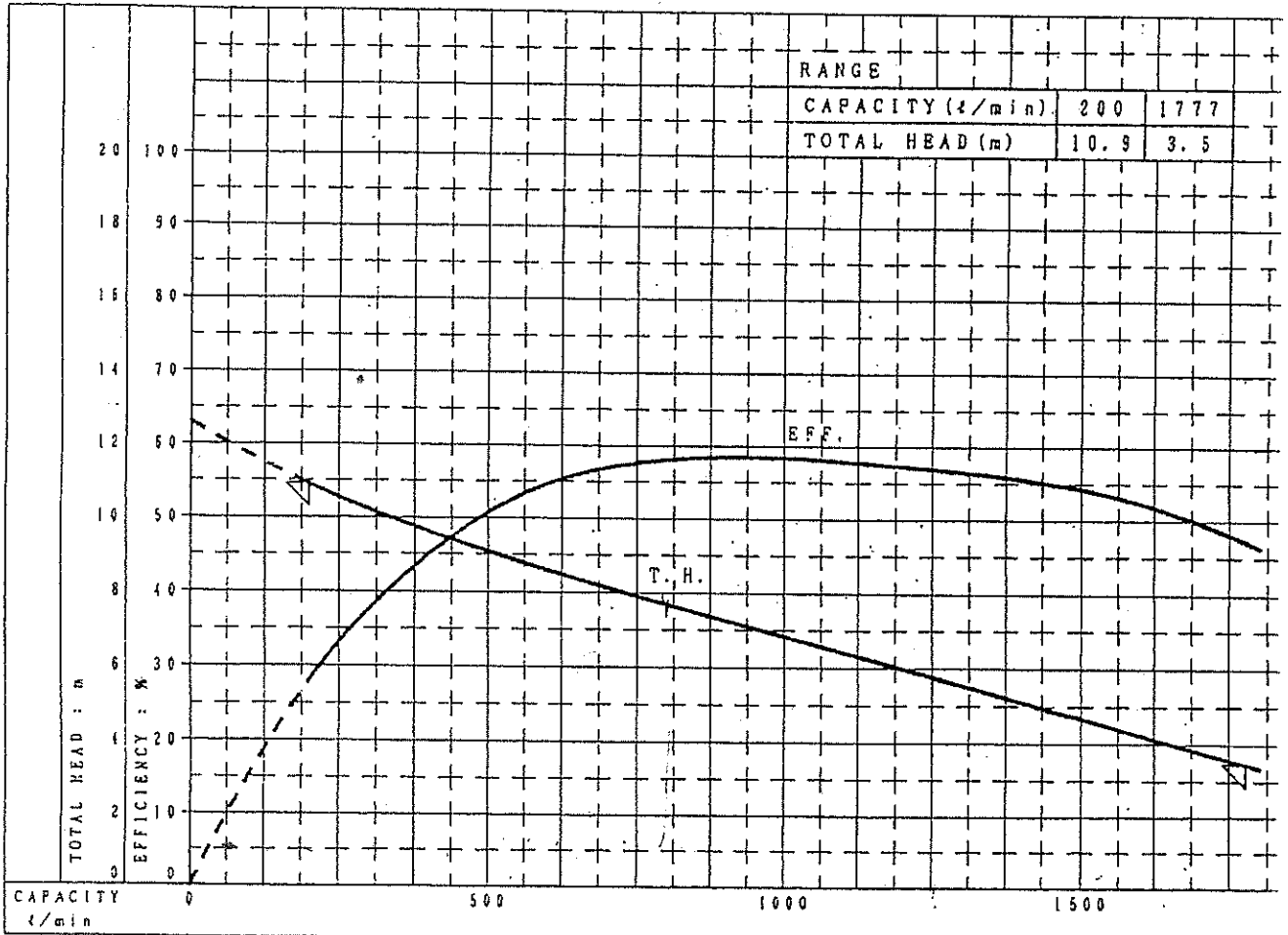


* Discharge size is changed by pump discharge elbow. Therefore, pump name plate shows "80/100/150" or "80/100" for common model.

PERFORMANCE CURVES

MODEL 80DML62.2 FREQUENCY 60 Hz. OUTPUT 2.2

MOTOR RATING 380/440/460/480 V SYNCHRONOUS SPEED 1800min⁻¹ 2.2 kW DRY TYPE
5.5/5.0/4.9/5.0 A



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1993 (E).

Impeller Di
158

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132447



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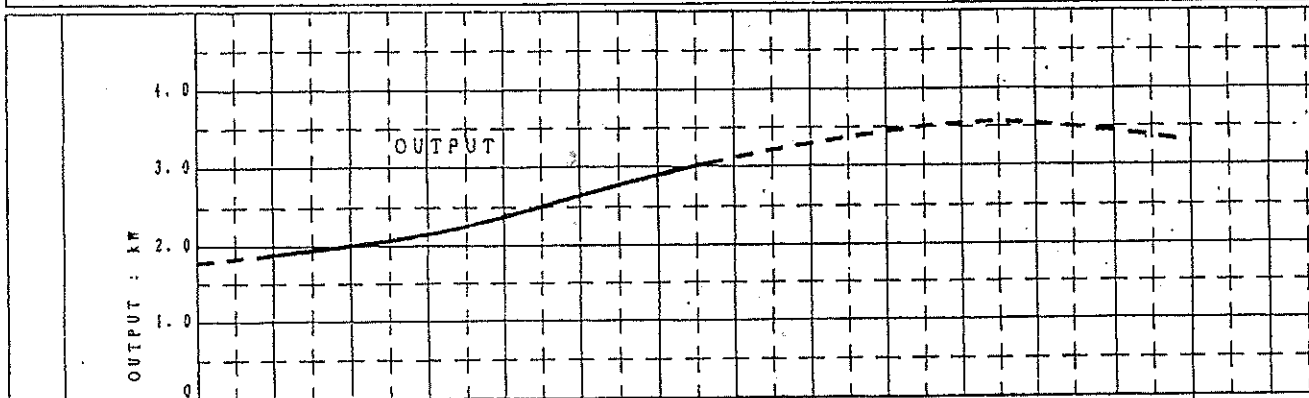
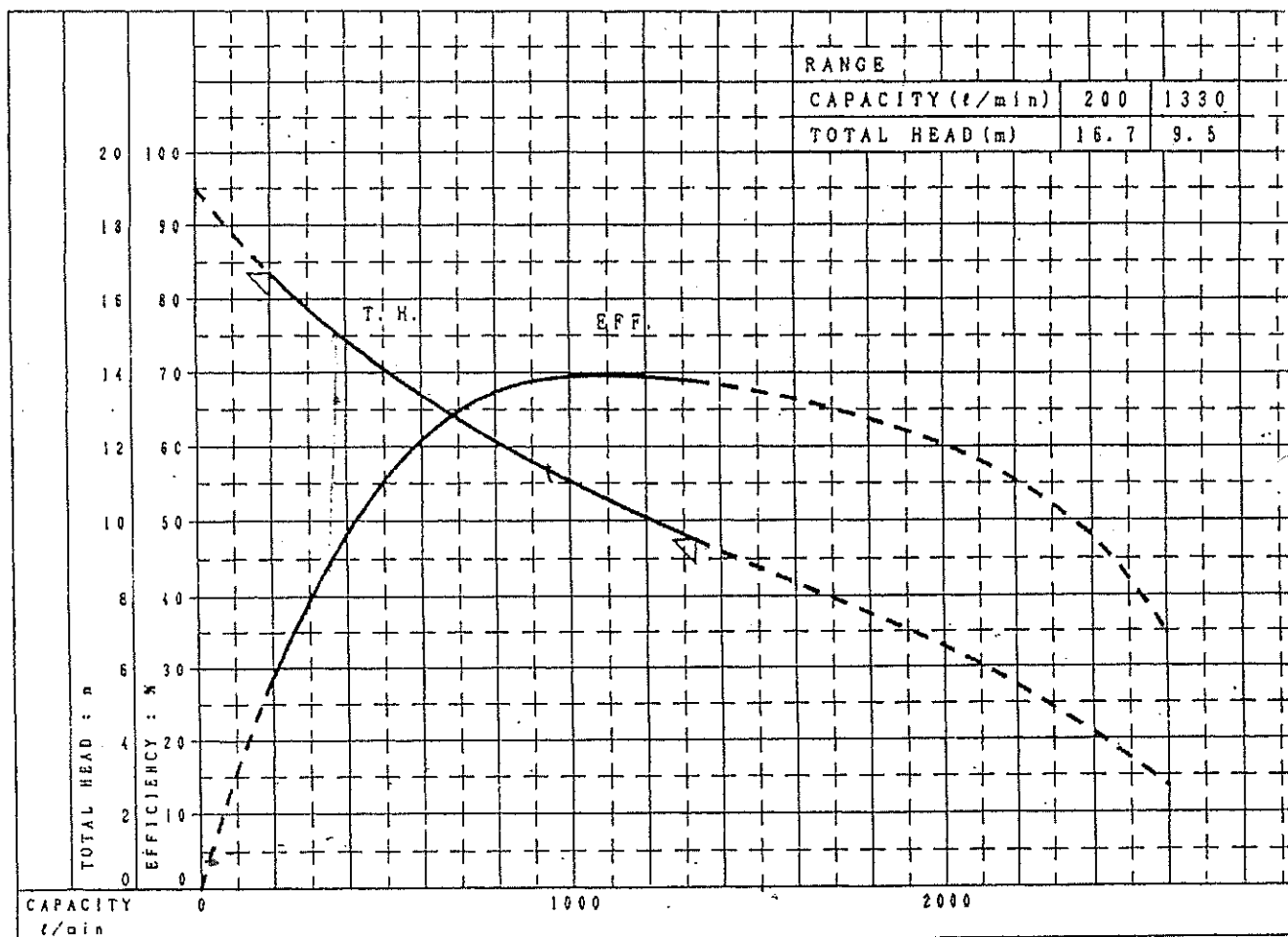
PERFORMANCE CURVES

MODEL 80DML63.7

FREQUENCY 60 Hz OUTPUT 3.7

MOTOR RATING 380/440/460/480 V
8.5/7.9/7.7/7.8 A

SYNCHRONOUS SPEED 1800min⁻¹ 3.7 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (E).

Impeller Di.
183 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132448



EBARA CORPORATION

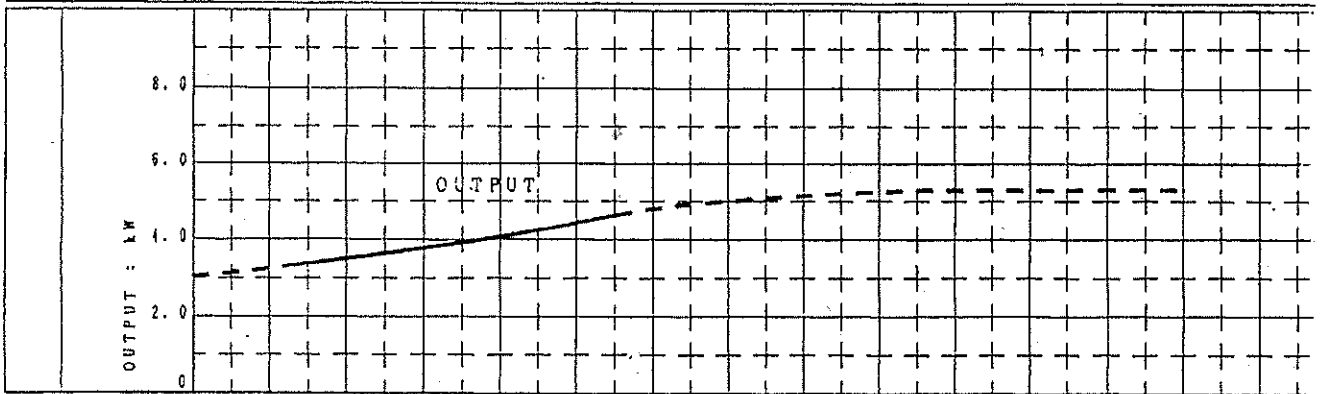
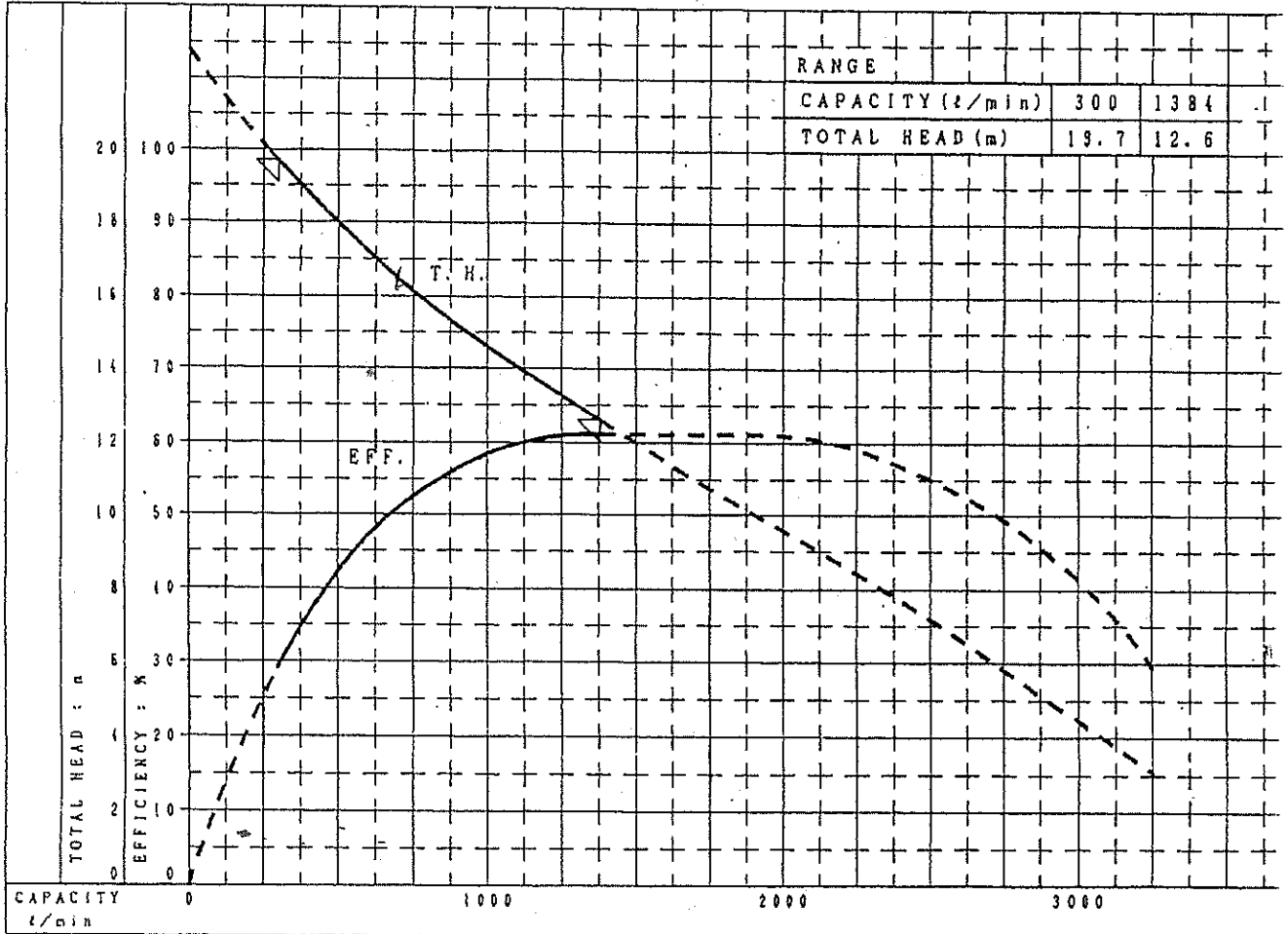
PERFORMANCE CURVES

MODEL 80DML65.5

FREQUENCY 60 Hz OUTPUT 5.5 kW

MOTOR RATING 380/440/460/480 V
12.6/11.6/11.5/11.7 A

SYNCHRONOUS SPEED 1800 min^{-1} 5.5 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (B).

Impeller Dia.
202 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min^{-1}		

DWG. NO. F8-0132450



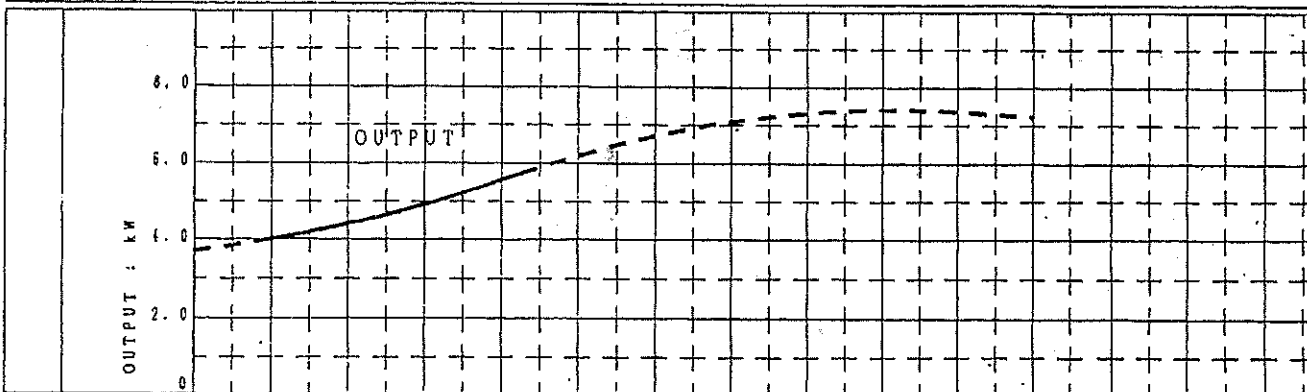
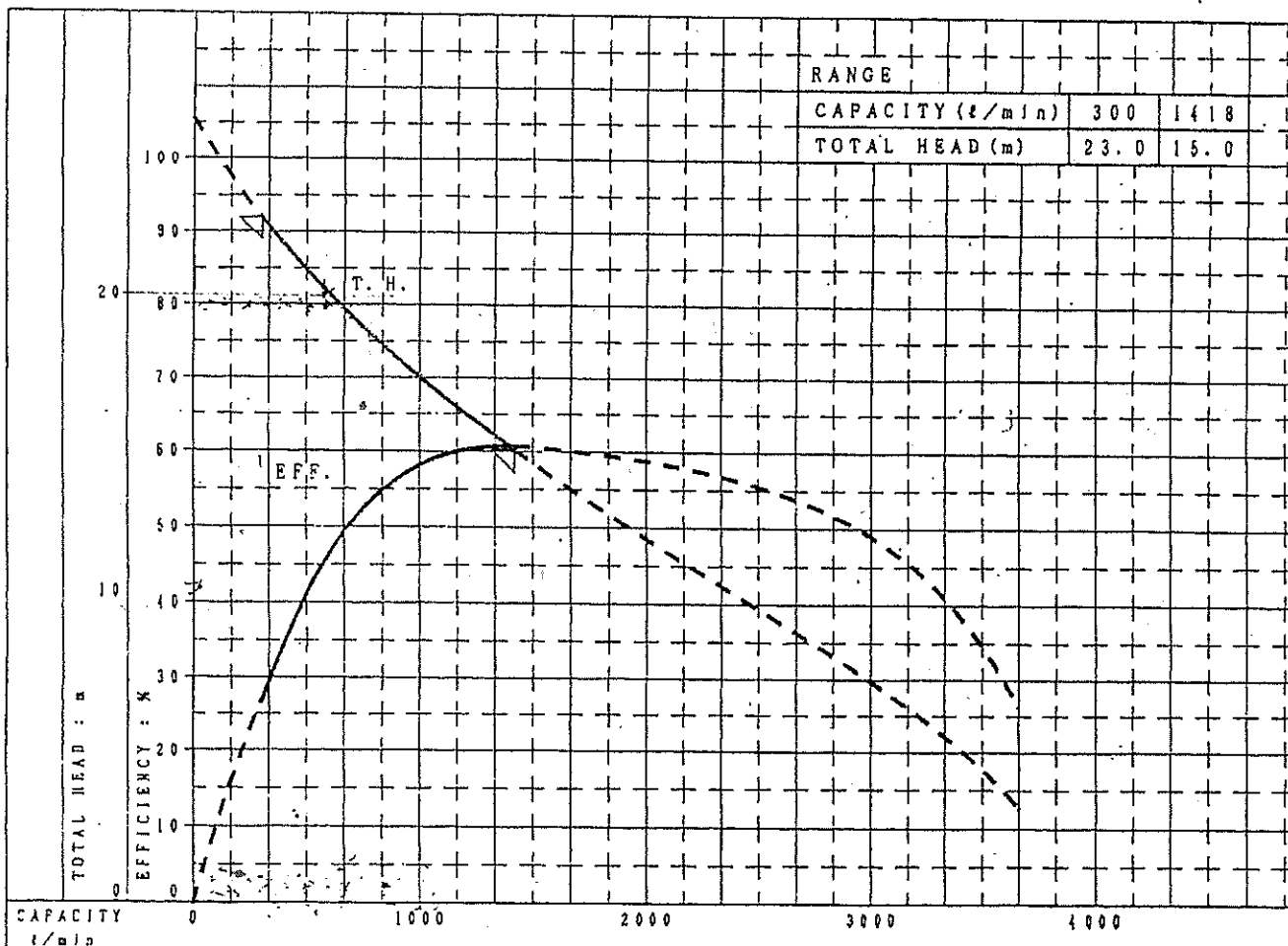
PERFORMANCE CURVES

MODEL 80DML67.5

FREQUENCY 60 Hz OUTPUT 7.5

MOTOR RATING 380/440/460/480 V
15.2/14.7/14.9/15.0 A

SYNCHRONOUS SPEED 1800min⁻¹ 7.5 kW DRY TYP



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (E).

Impeller D:
213 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY

DWG. NO. F8-0132453



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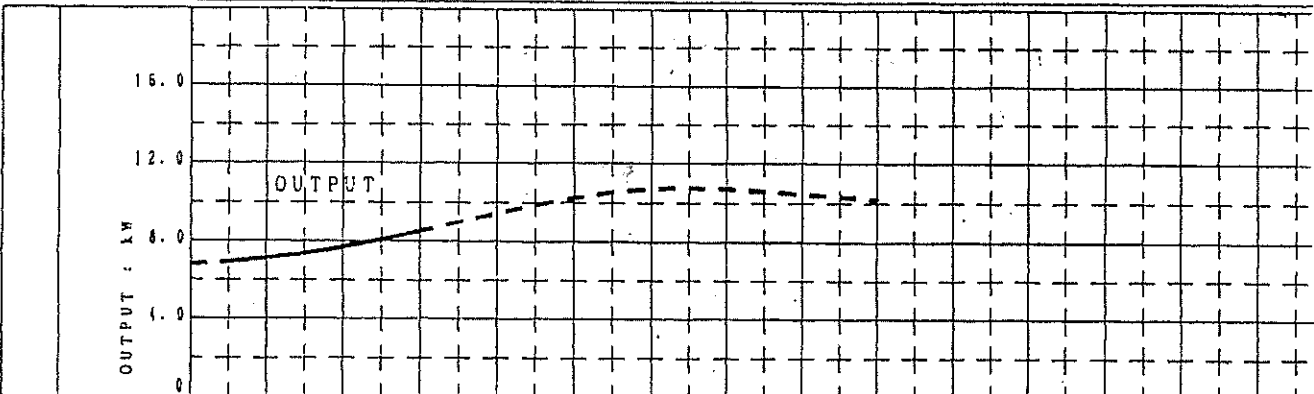
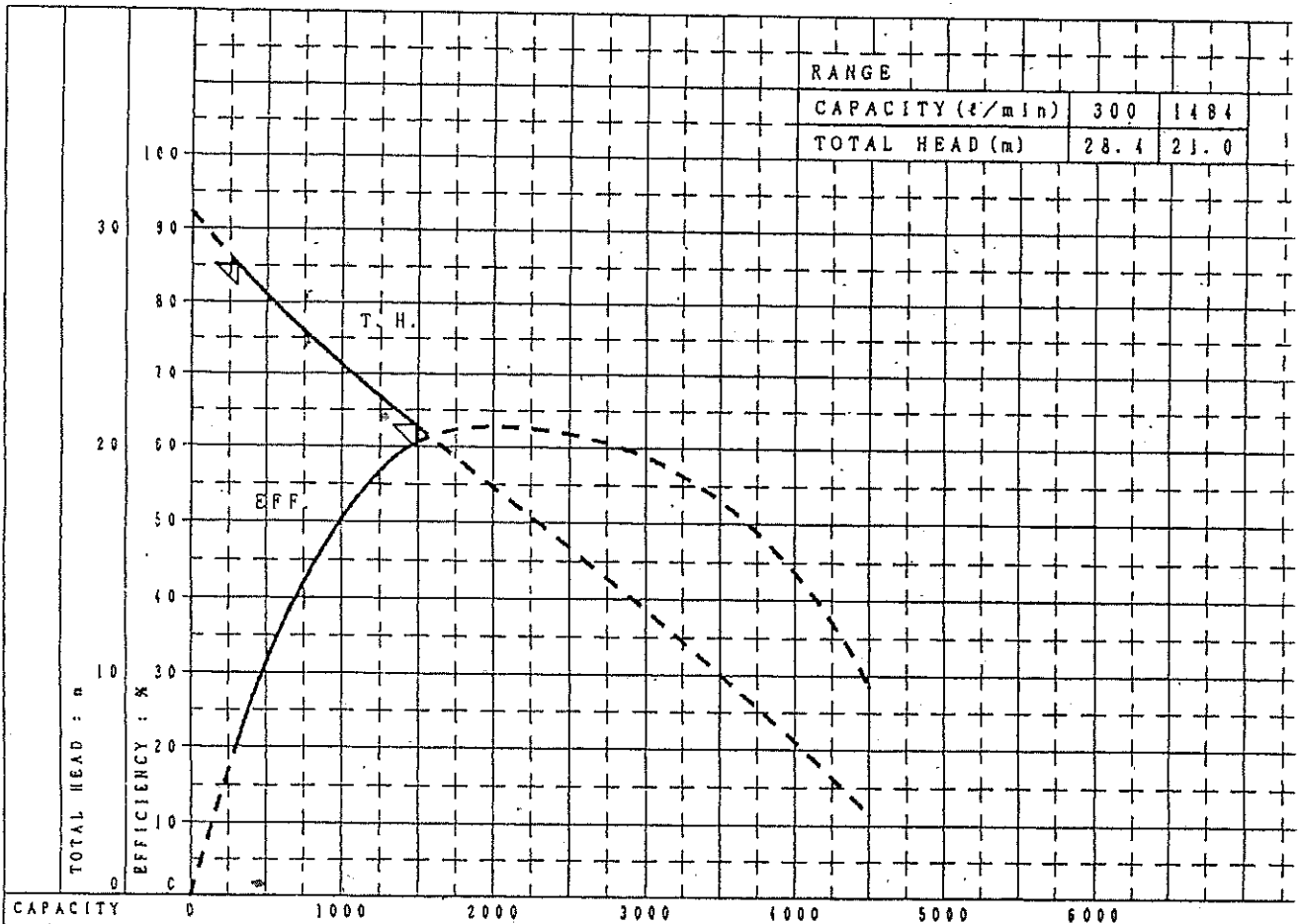
PERFORMANCE CURVES

MODEL 80DML611

FREQUENCY 60 Hz OUTPUT 11

MOTOR RATING 380/440/460/480 V
23.0/20.8/20.6/20.8 A

SYNCHRONOUS SPEED 1800min⁻¹ 11 kW DRY TYP



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (E).

Impeller Dia
240 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	TYPE
				min ⁻¹		

DWG. NO. F8-0132456



EBARA CORPORATION

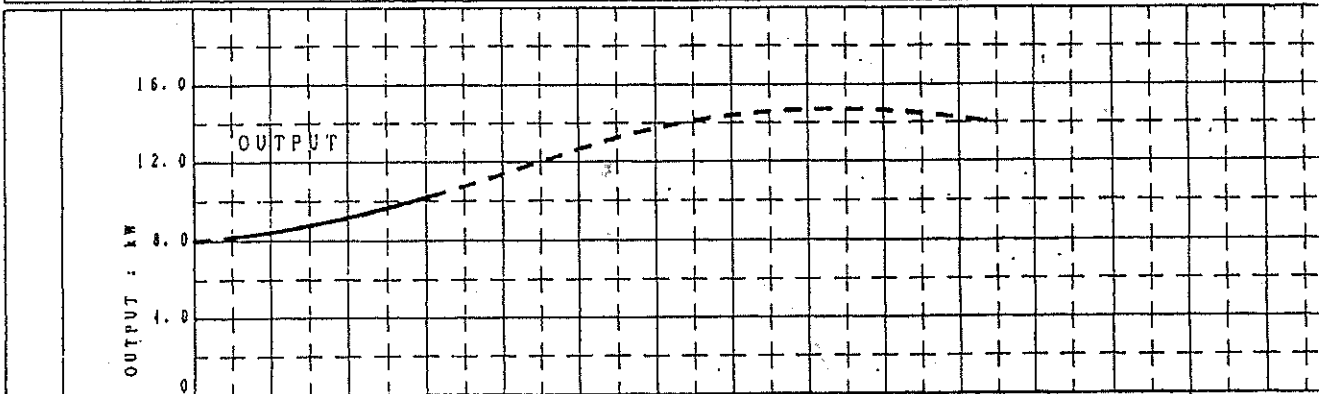
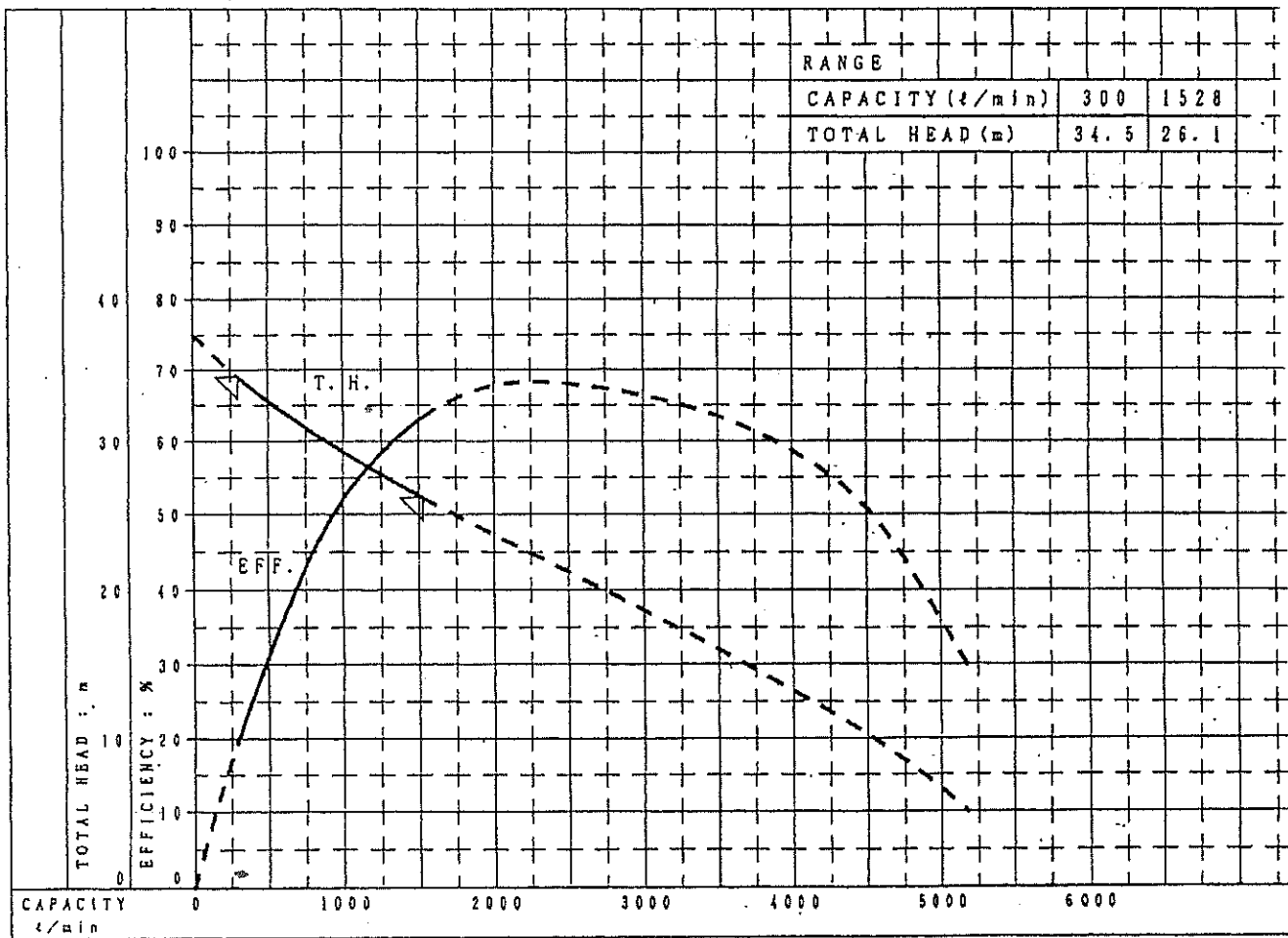
PERFORMANCE CURVES

MODEL 80DML615

FREQUENCY 60 Hz OUTPUT 15

MOTOR RATING 380/440/460/480 V
30.5/27.8/27.3/27.4 A

SYNCHRONOUS SPEED 1800min⁻¹ 15 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (B).

Impeller Dia
259 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132459



EBARA CORPORATION

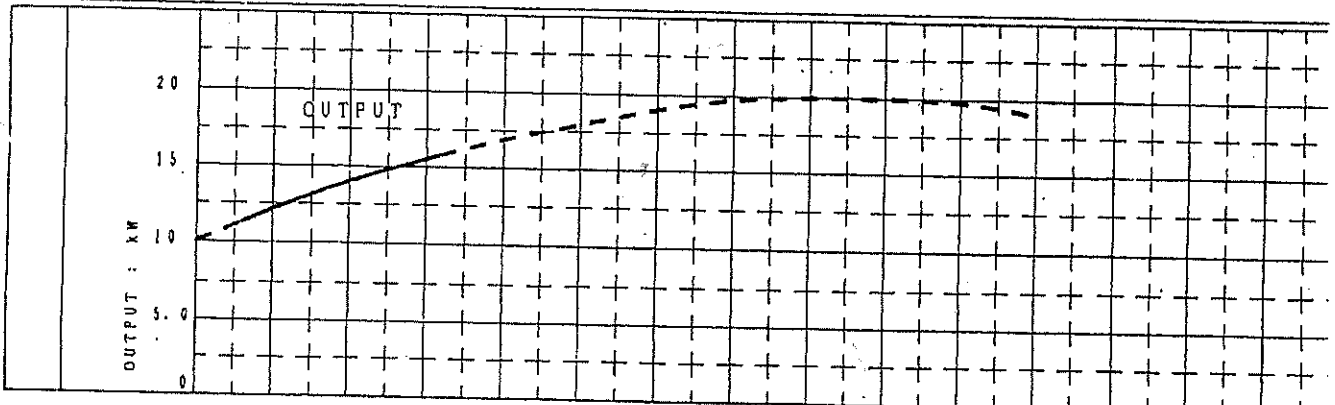
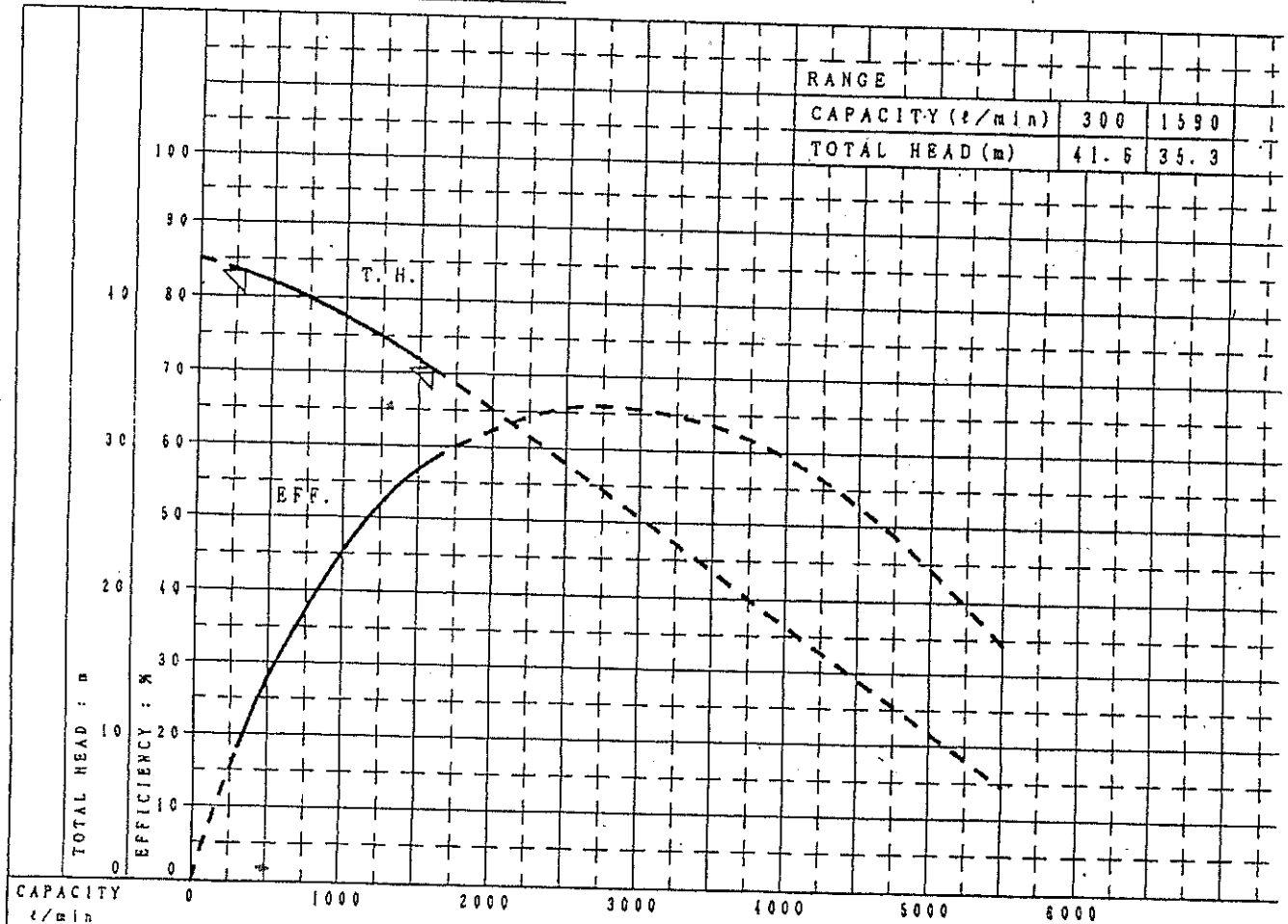
PERFORMANCE CURVES

MODEL 80DML622

FREQUENCY 60 Hz OUTPUT 2.2

MOTOR RATING 380/440/460/480 V
42.4/37.6/36.6/36.6 A

SYNCHRONOUS SPEED 1800min⁻¹ 22 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (B).

Impeller Dia. 292 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132462

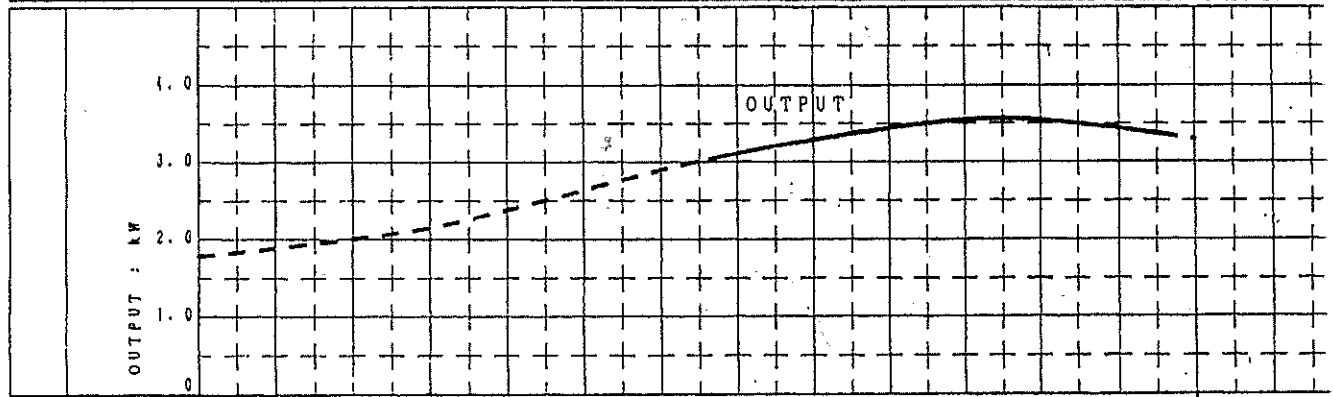
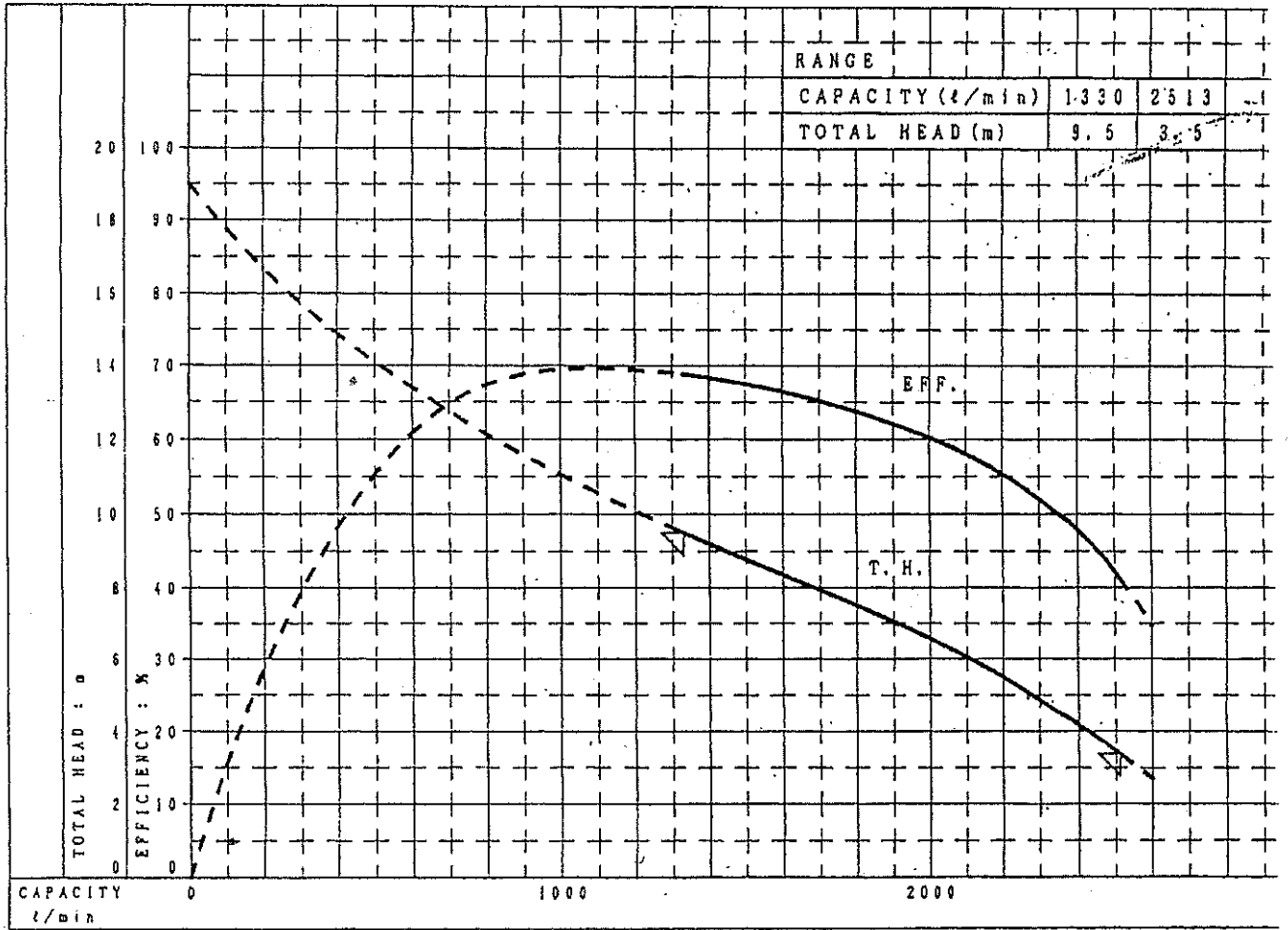


EBARA CORPORATION

PERFORMANCE CURVES

MODEL 100DML63.7 FREQUENCY 60 Hz OUTPUT 3.7

MOTOR RATING 380/440/460/480 V SYNCHRONOUS SPEED 1800min⁻¹ 3.7 kW DRY TYP:
8.5/7.9/7.7/7.8 A



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (B).

Impeller Dia
183 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY

DWG. NO. F8-0132449



COADA

PERFORMANCE CURVES

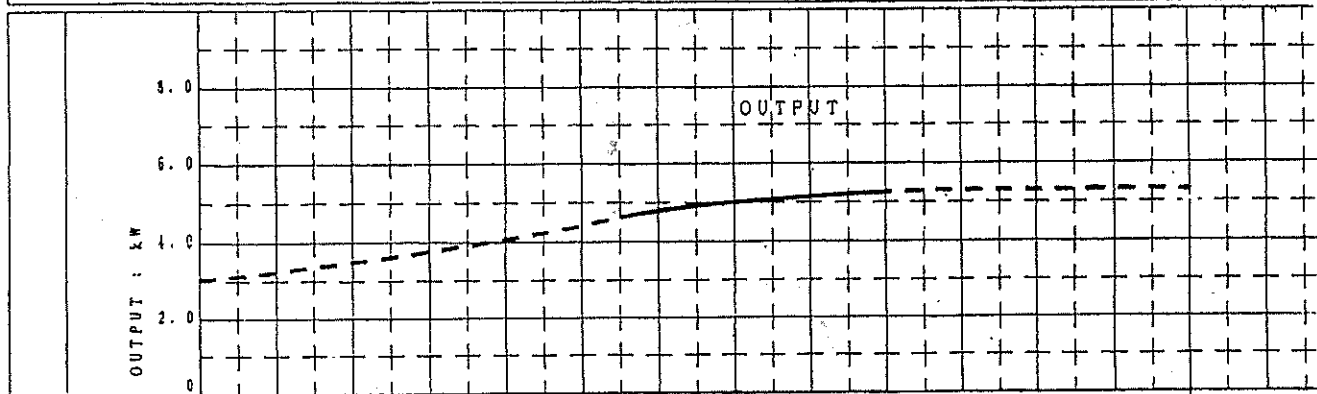
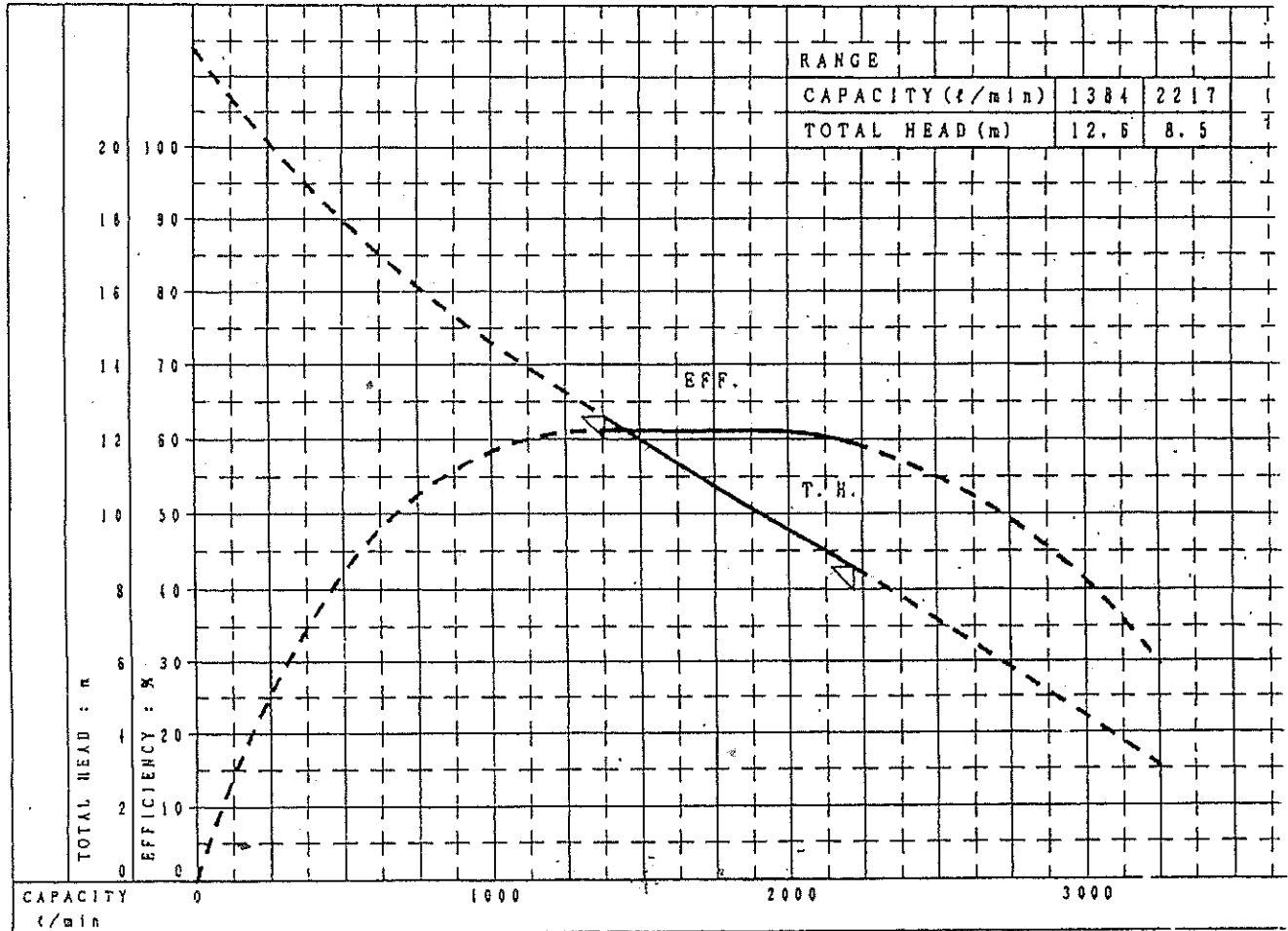
MODEL 100DML65.5

FREQUENCY 60 Hz

OUTPUT 5.5

MOTOR RATING 360/440/460/480 V
12.6/11.6/11.5/11.7 A

SYNCHRONOUS SPEED 1800min⁻¹ 5.5 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (E).

Impeller Dia
202 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132451



EBARA

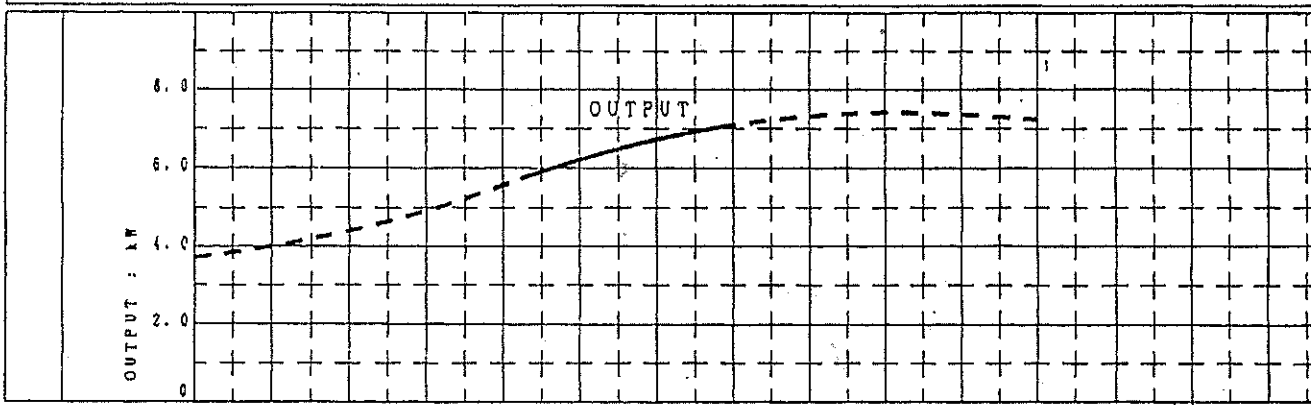
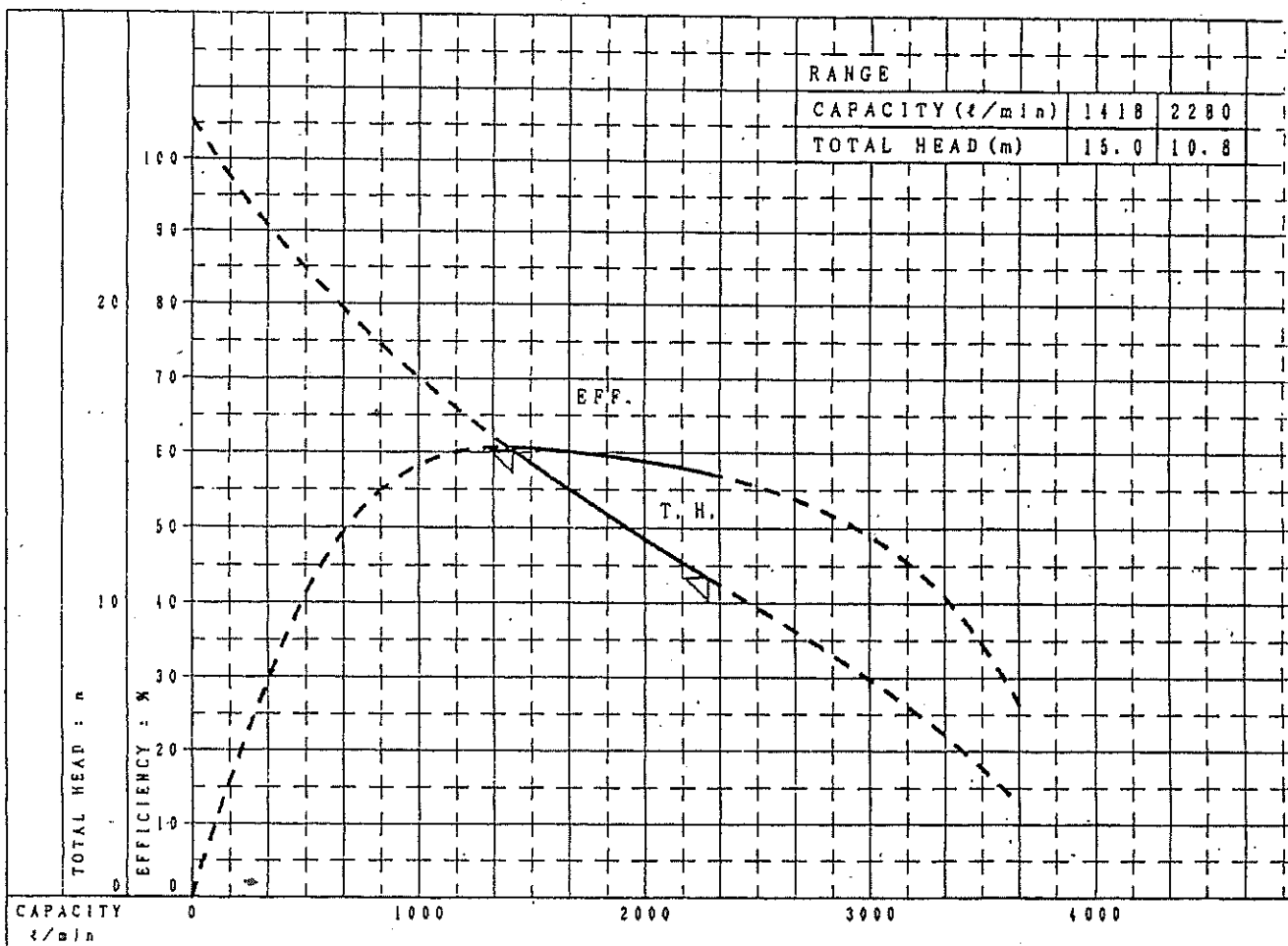
PERFORMANCE CURVES

MODEL 100DML67.5

FREQUENCY 60 Hz OUTPUT 7.5

MOTOR RATING 380/440/460/480 V
16.2/14.7/14.9/15.0 A

SYNCHRONOUS SPEED 1800min⁻¹ 7.5 kW DRY TYP



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (E).

Impeller Dia
213 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132454



EBARA CORPORATION

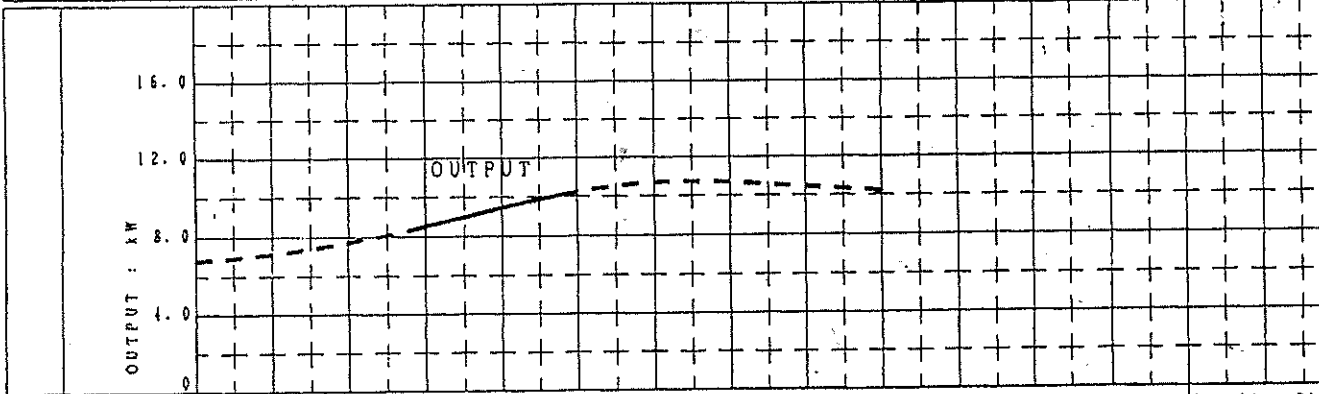
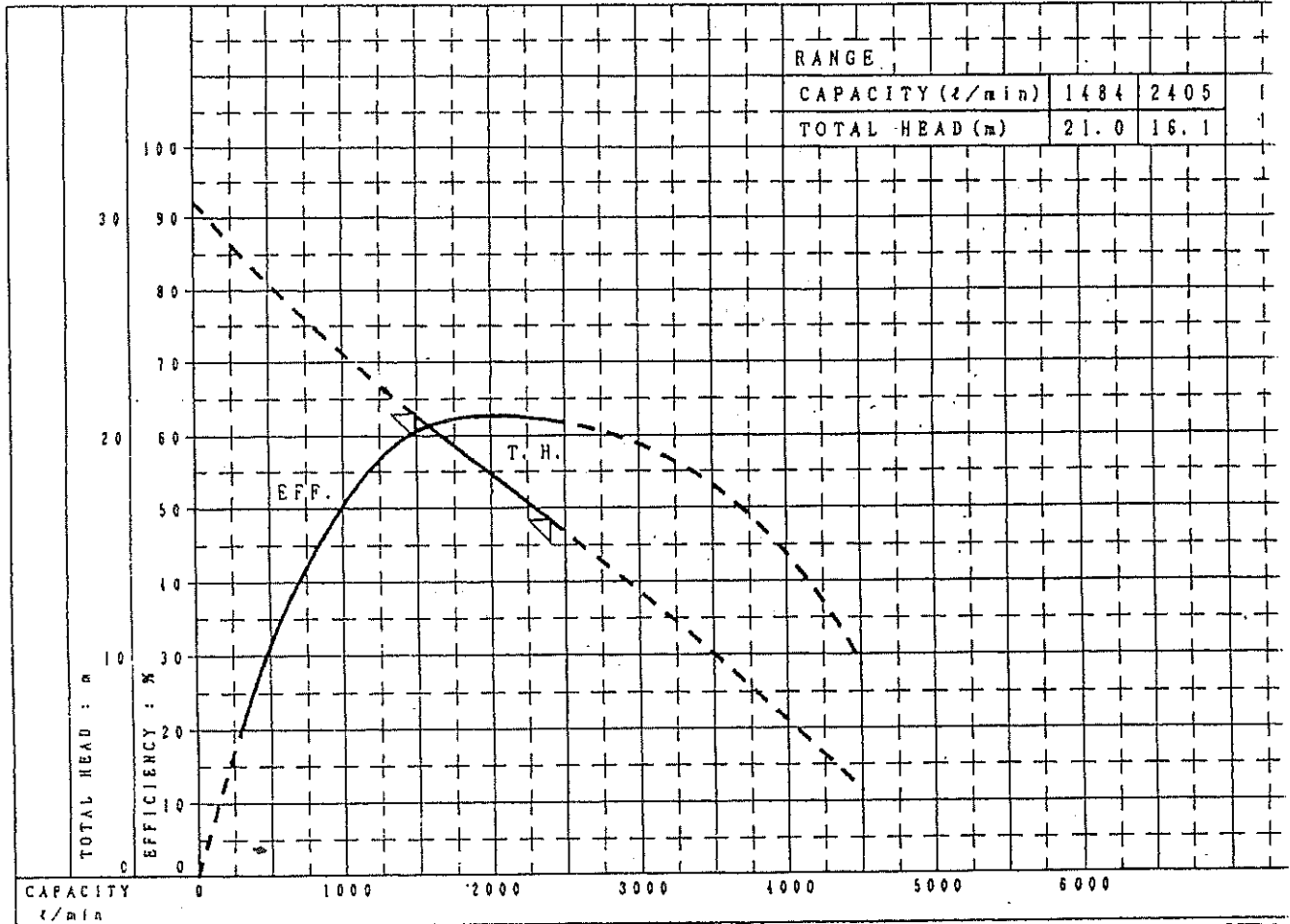
PERFORMANCE CURVES

MODEL 100DML611

FREQUENCY 60 Hz OUTPUT 11

MOTOR RATING 380/440/460/480 V
23.0/20.8/20.6/20.8 A

SYNCHRONOUS SPEED 1800min⁻¹ 11 kW DRY, TYPE I



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (B).

Impeller Dia
240

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132457



EBARA CORPORATION

EBARA SUBMERSIBLE SEWAGE PUMPS

DML

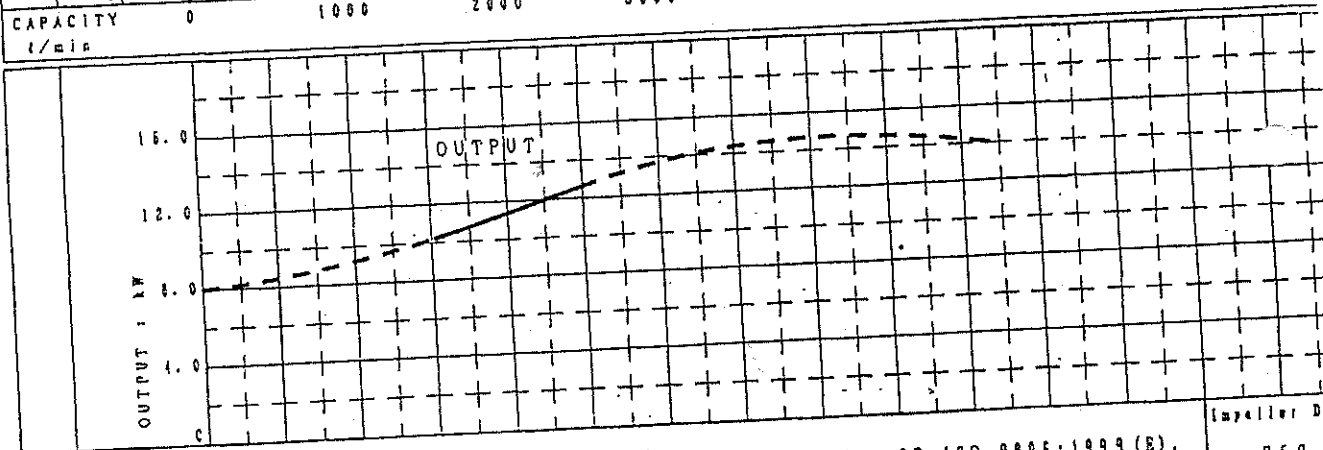
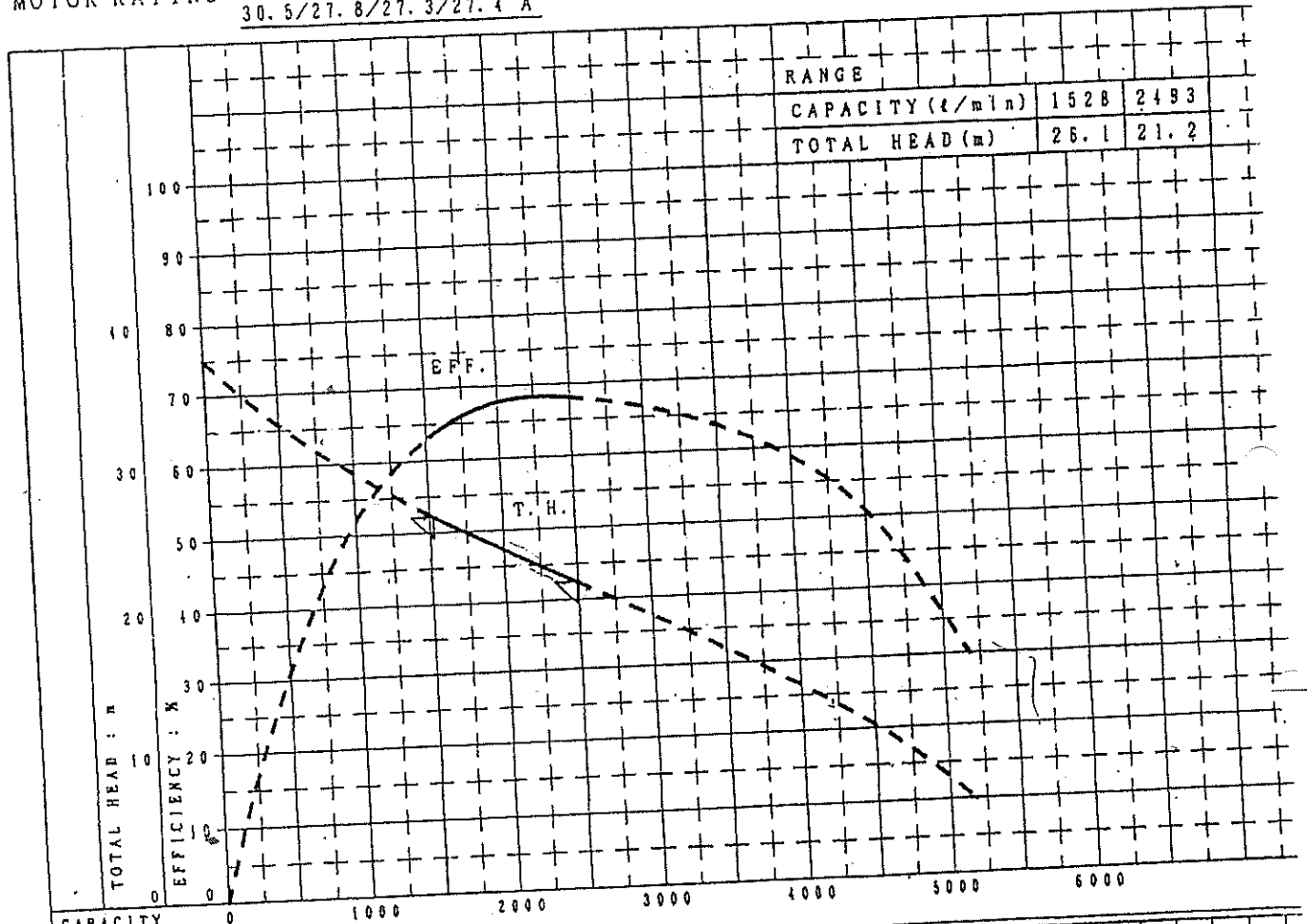
PERFORMANCE CURVES

MODEL 100DML615

FREQUENCY 60 Hz OUTPUT 15

MOTOR RATING 380/440/460/480 V
30.5/27.8/27.3/27.4 A

SYNCHRONOUS SPEED 1800 min^{-1} 15 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (B).

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT
				min^{-1}	

DWG. NO. F8-0132460

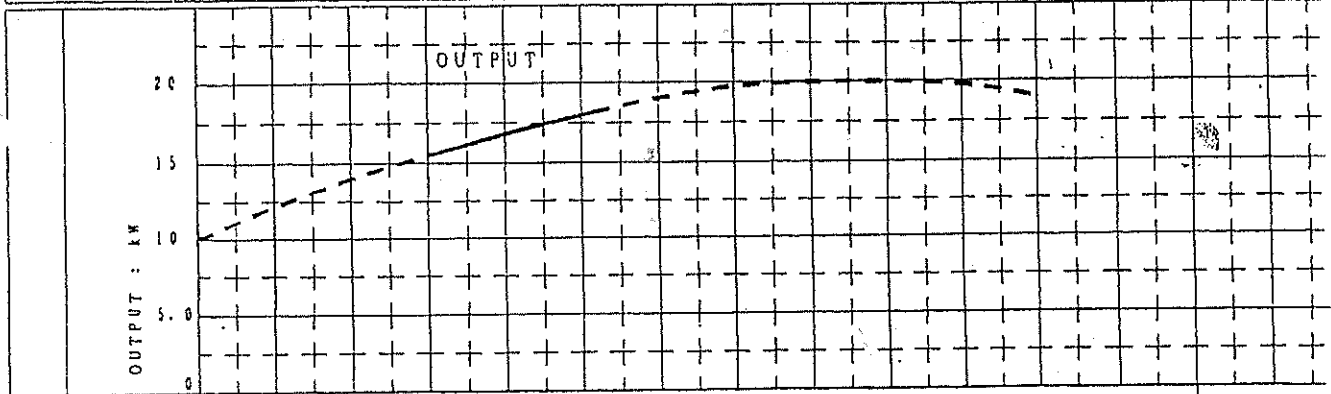
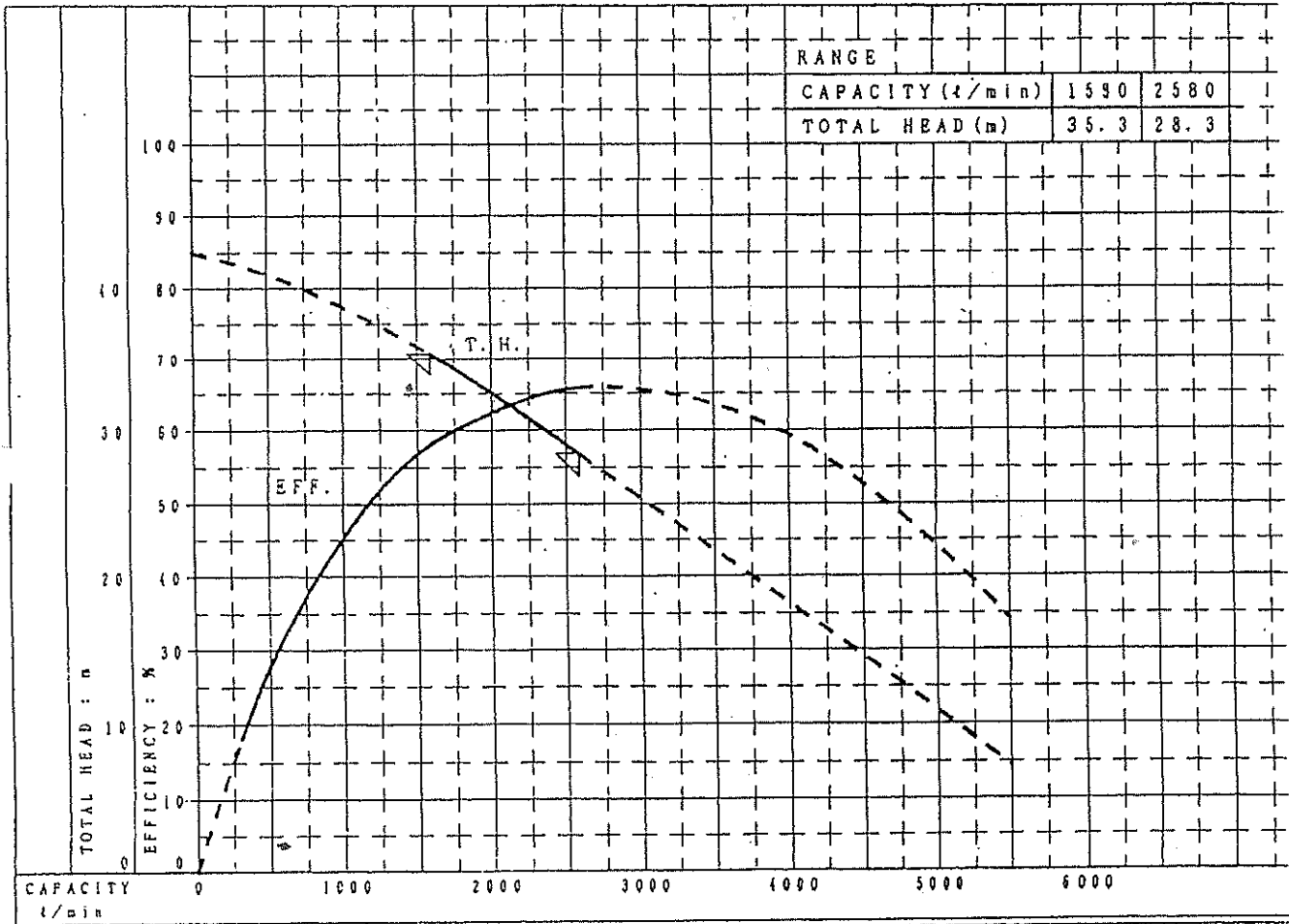
PERFORMANCE CURVES

MODEL 100DML622

FREQUENCY 60 Hz OUTPUT 22 kW

MOTOR RATING 380/440/460/480 V
42.4/37.6/36.6/36.6 A

SYNCHRONOUS SPEED 1800min⁻¹ 22 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (E).

Impeller Di.
292 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. FB-0132463



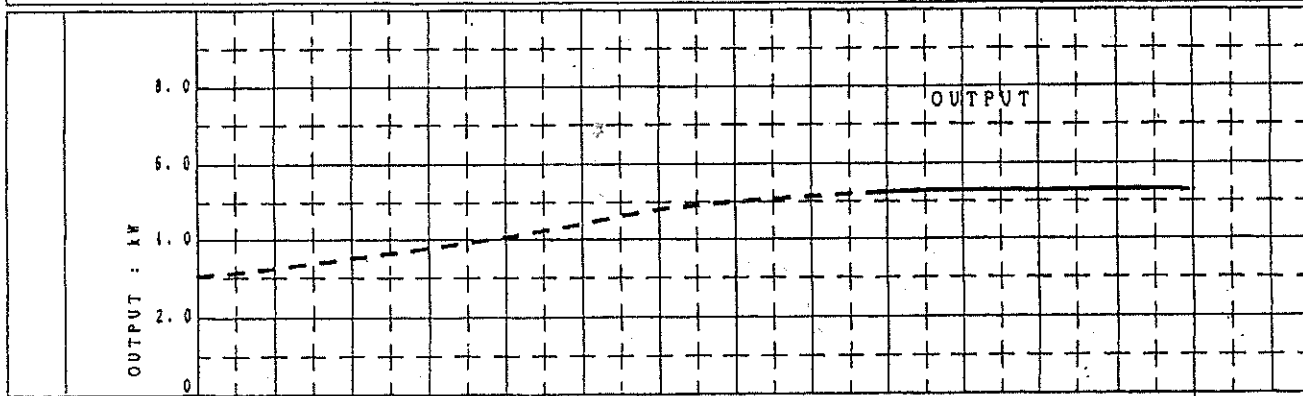
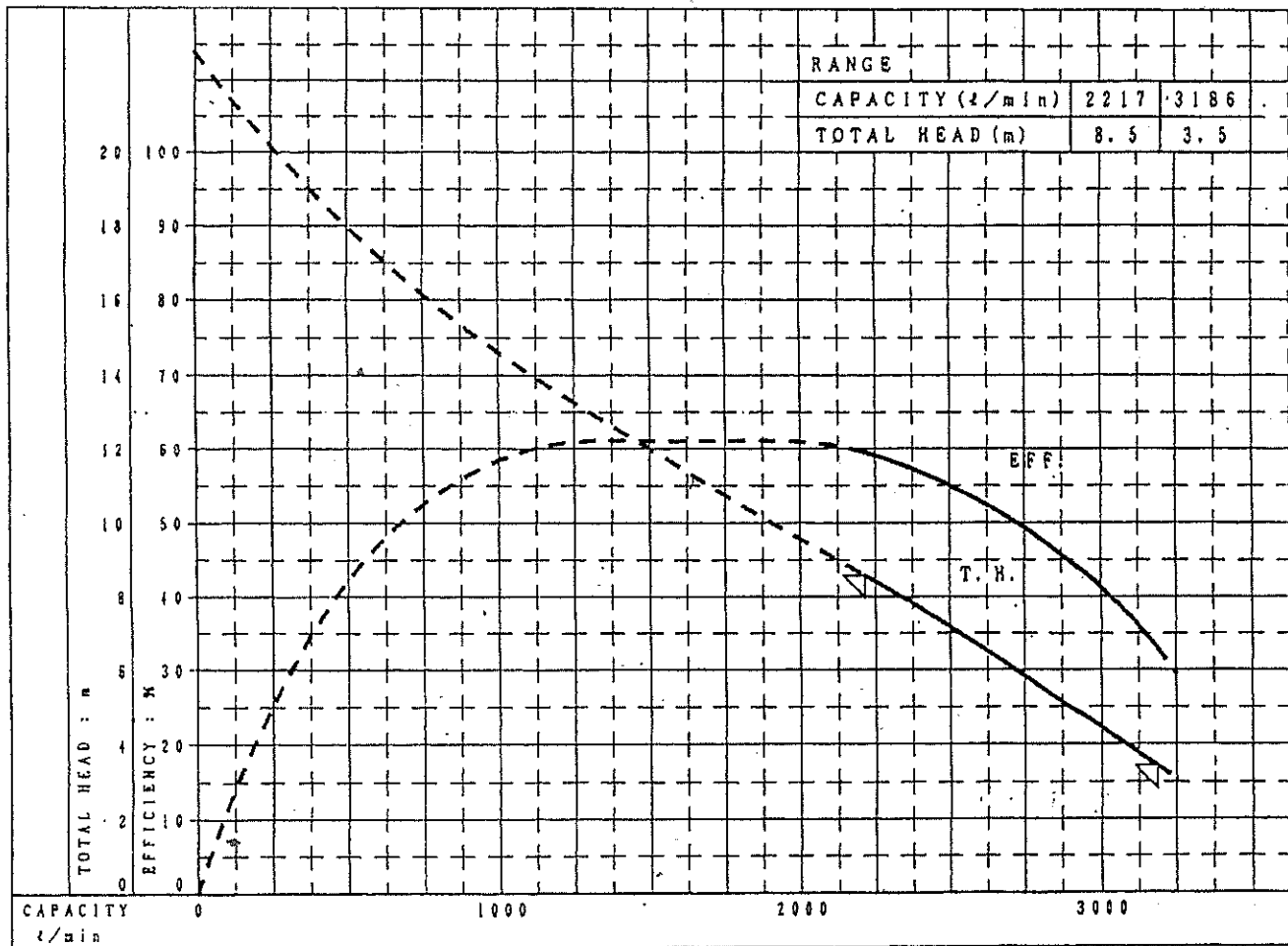
PERFORMANCE CURVES

MODEL 150DML65.5

FREQUENCY 60 Hz OUTPUT 5.5

MOTOR RATING 380/440/460/480 V
12.6/11.6/11.5/11.7 A

SYNCHRONOUS SPEED 1800min⁻¹ 5.5 kW DRY TYP



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (B).

Impeller D:
202

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132452



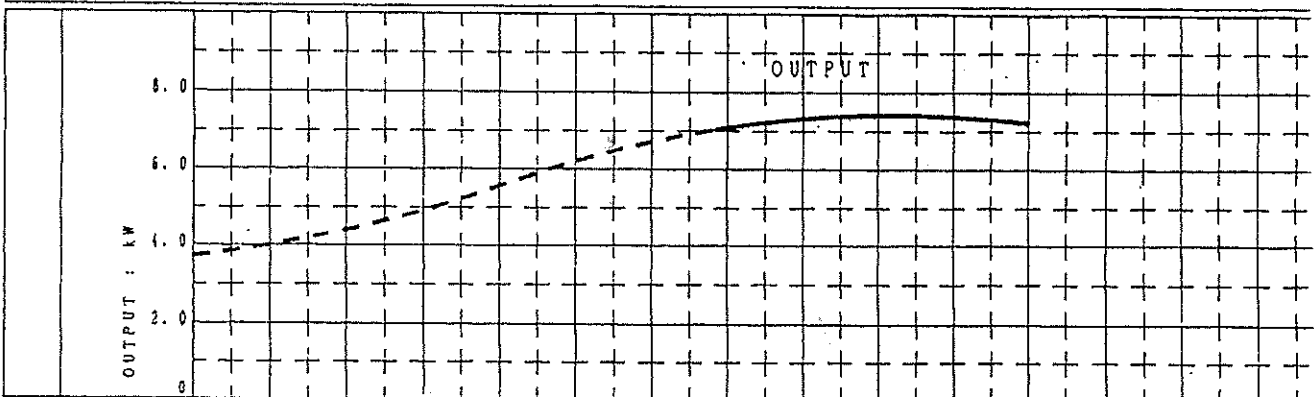
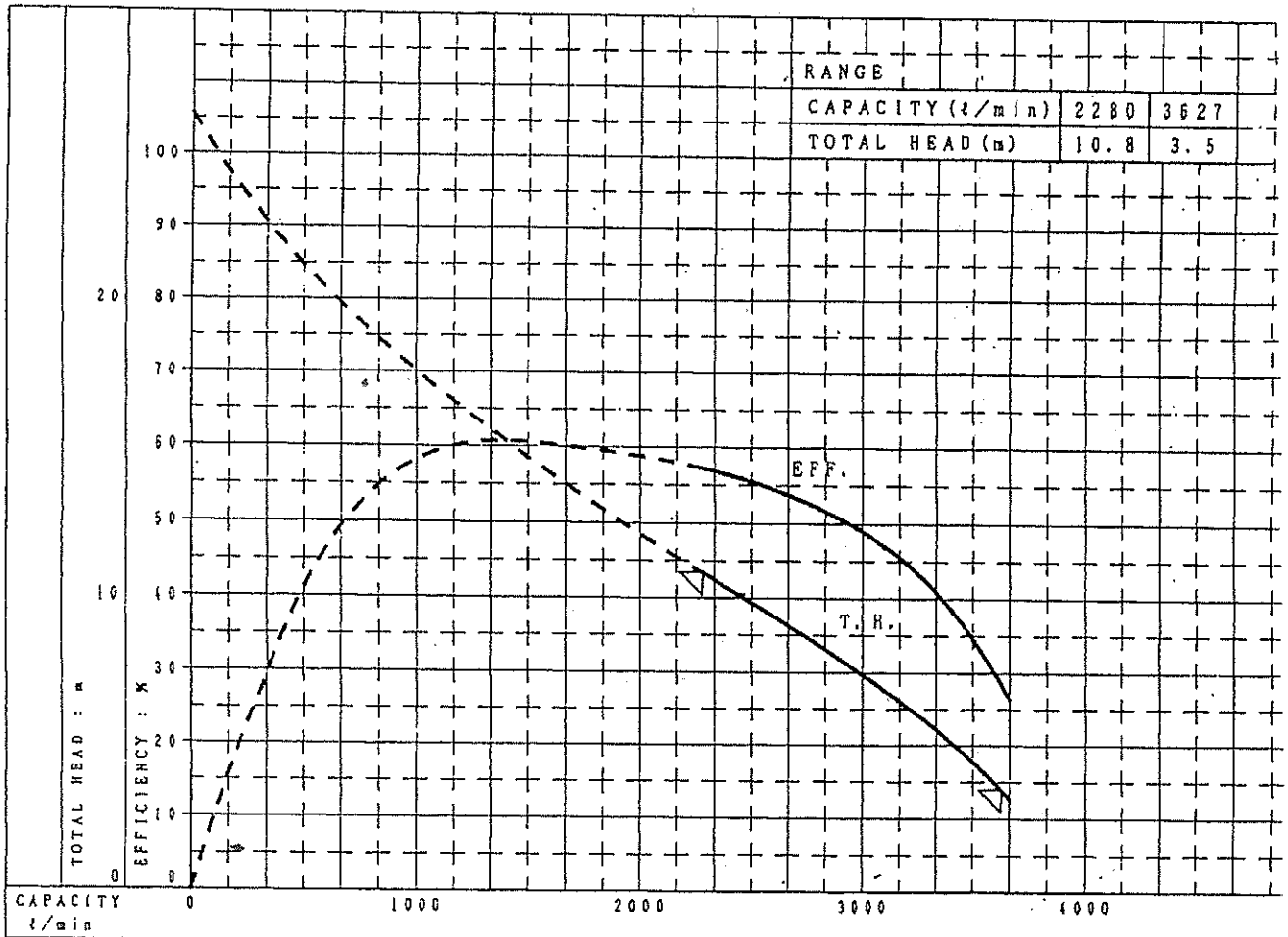
PERFORMANCE CURVES

MODEL 150DML67.5

FREQUENCY 60 Hz OUTPUT 7.5

MOTOR RATING 380/440/460/480 V
16.2/14.7/14.9/15.0 A

SYNCHRONOUS SPEED 1800 min⁻¹ 7.5 kW DRY TYP

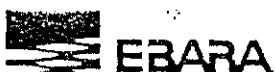


NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (B).

Impeller Dia
213 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132455



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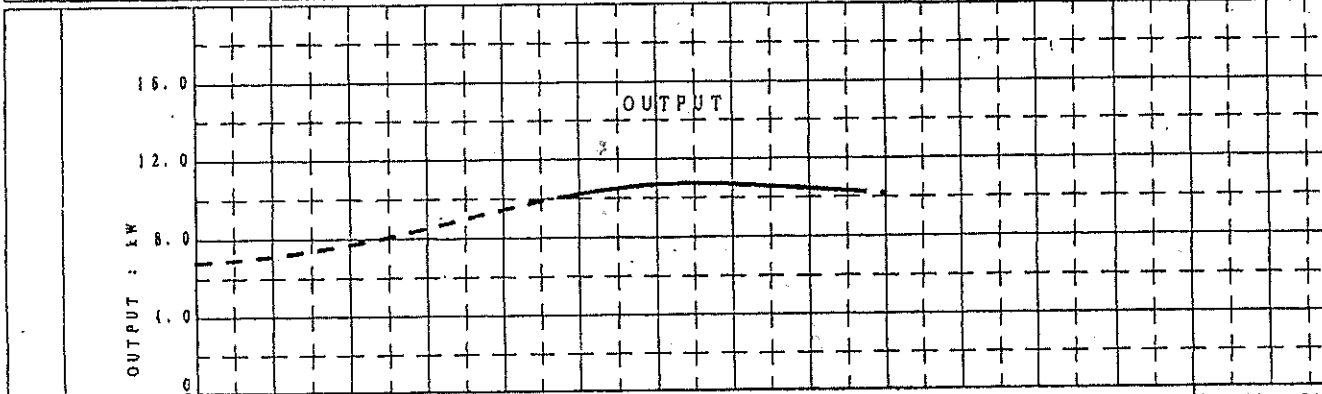
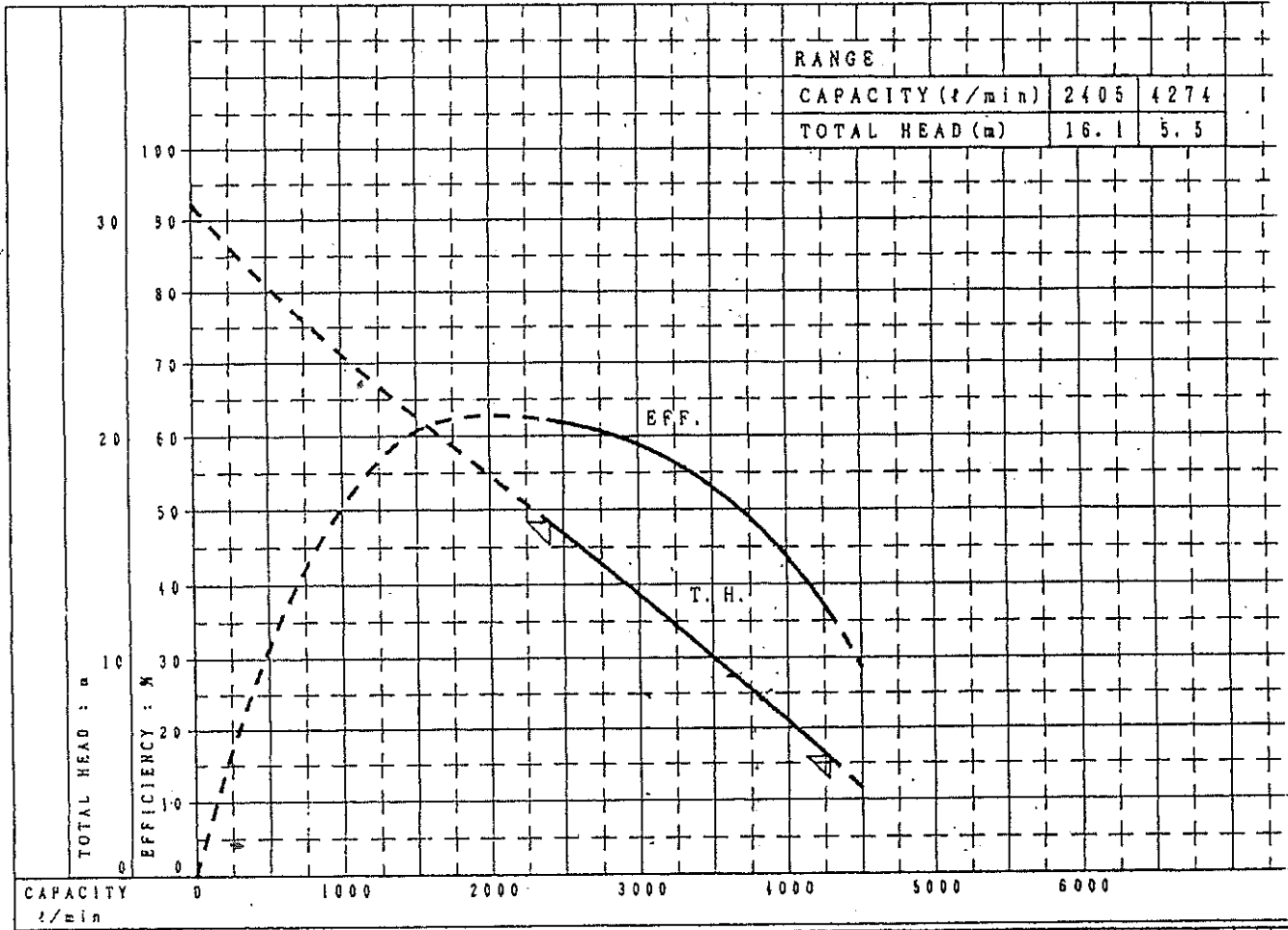
PERFORMANCE CURVES

MODEL 150DML611

FREQUENCY 60 Hz OUTPUT 11

MOTOR RATING 380/440/460/480 V
23.0/20.6/20.6/20.8 A

SYNCHRONOUS SPEED 1800min⁻¹ 11 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1995 (E).

Impeller Dia
240 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F8-0132458



EBARA CORPORATION

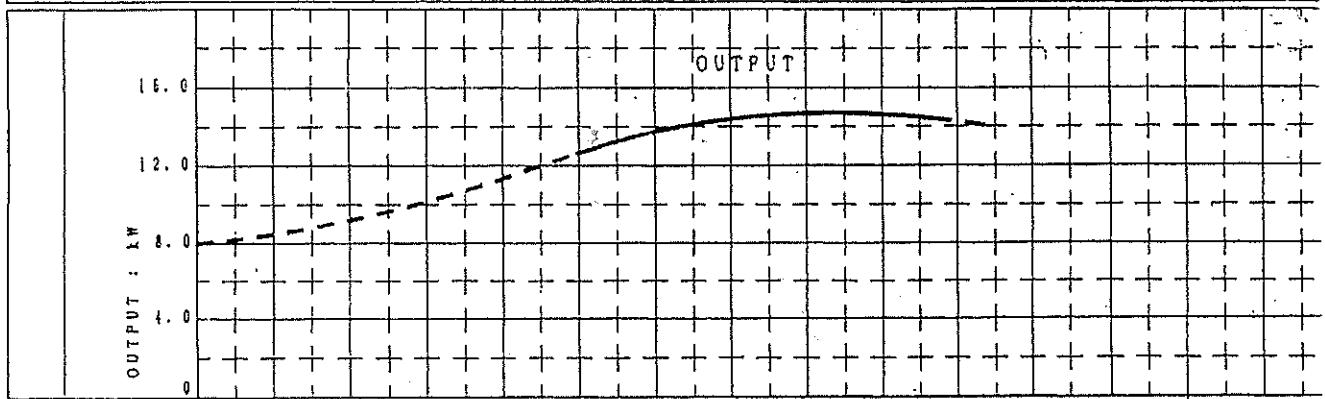
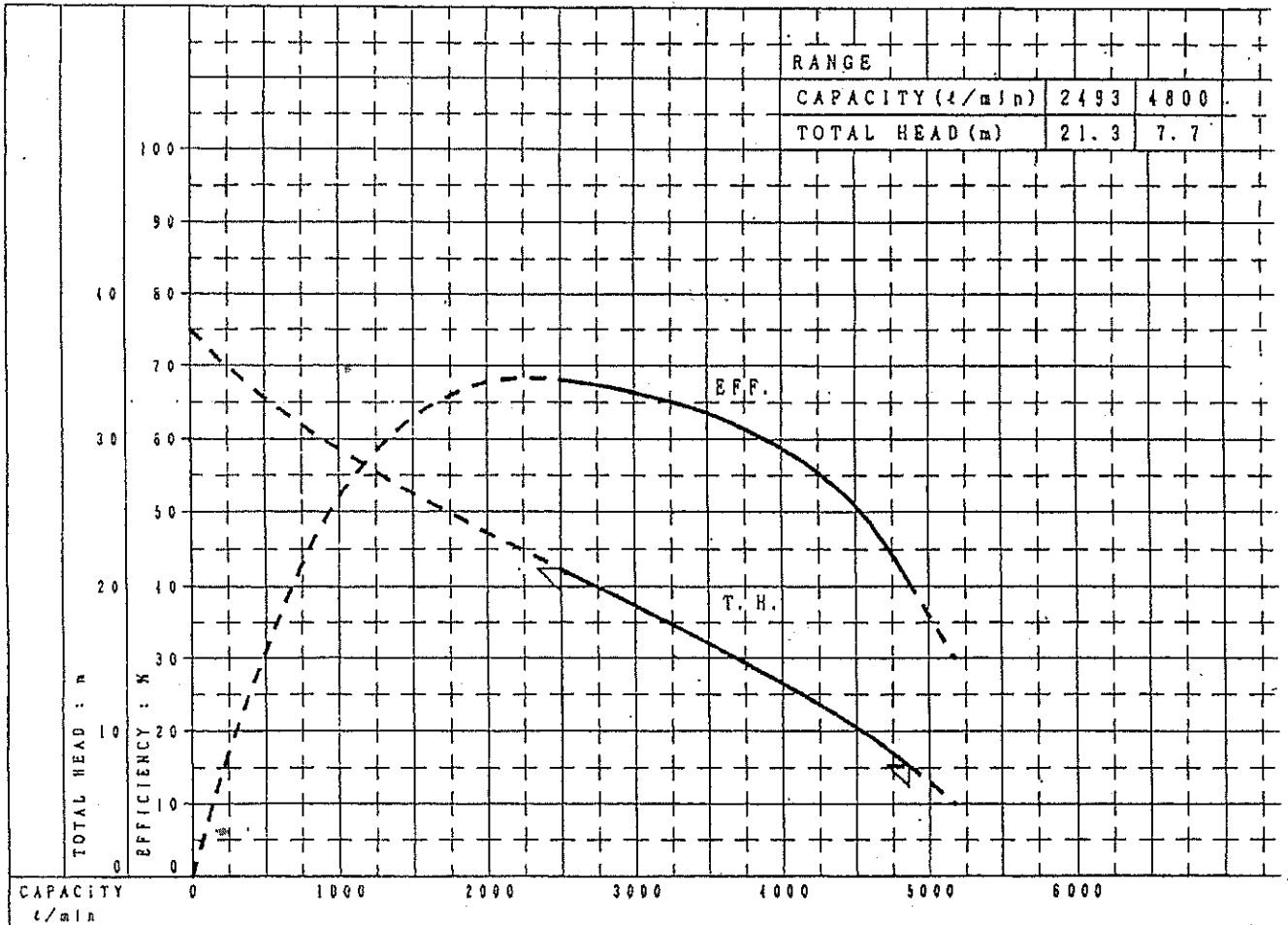
PERFORMANCE CURVES

MODEL 150DML615

FREQUENCY 60 Hz OUTPUT 15 kW

MOTOR RATING 380/440/460/480 V
30.5/27.8/27.3/27.4 A

SYNCHRONOUS SPEED 1800min⁻¹ 15 kW DRY TYPE



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (E).

Impeller Dia
259 mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	Q'TY
				min ⁻¹		

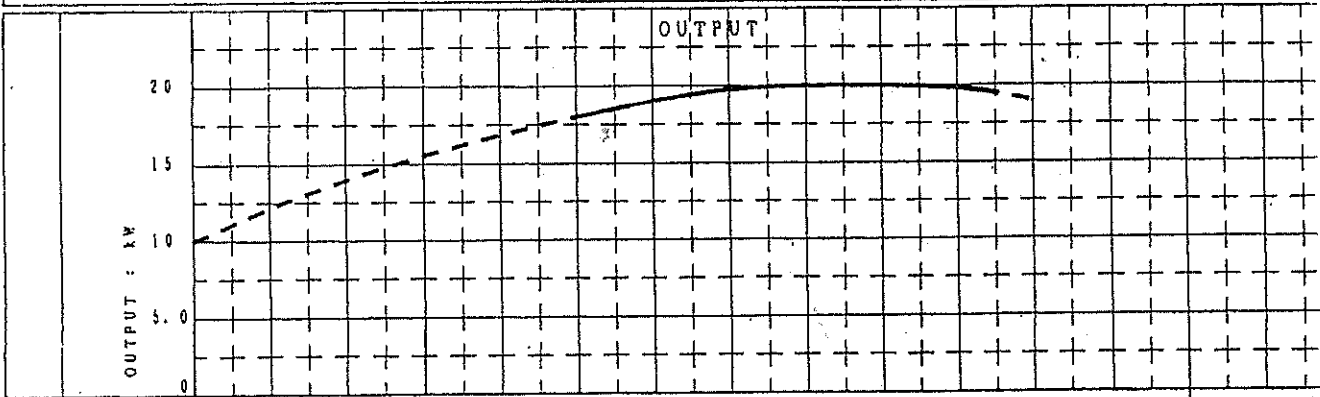
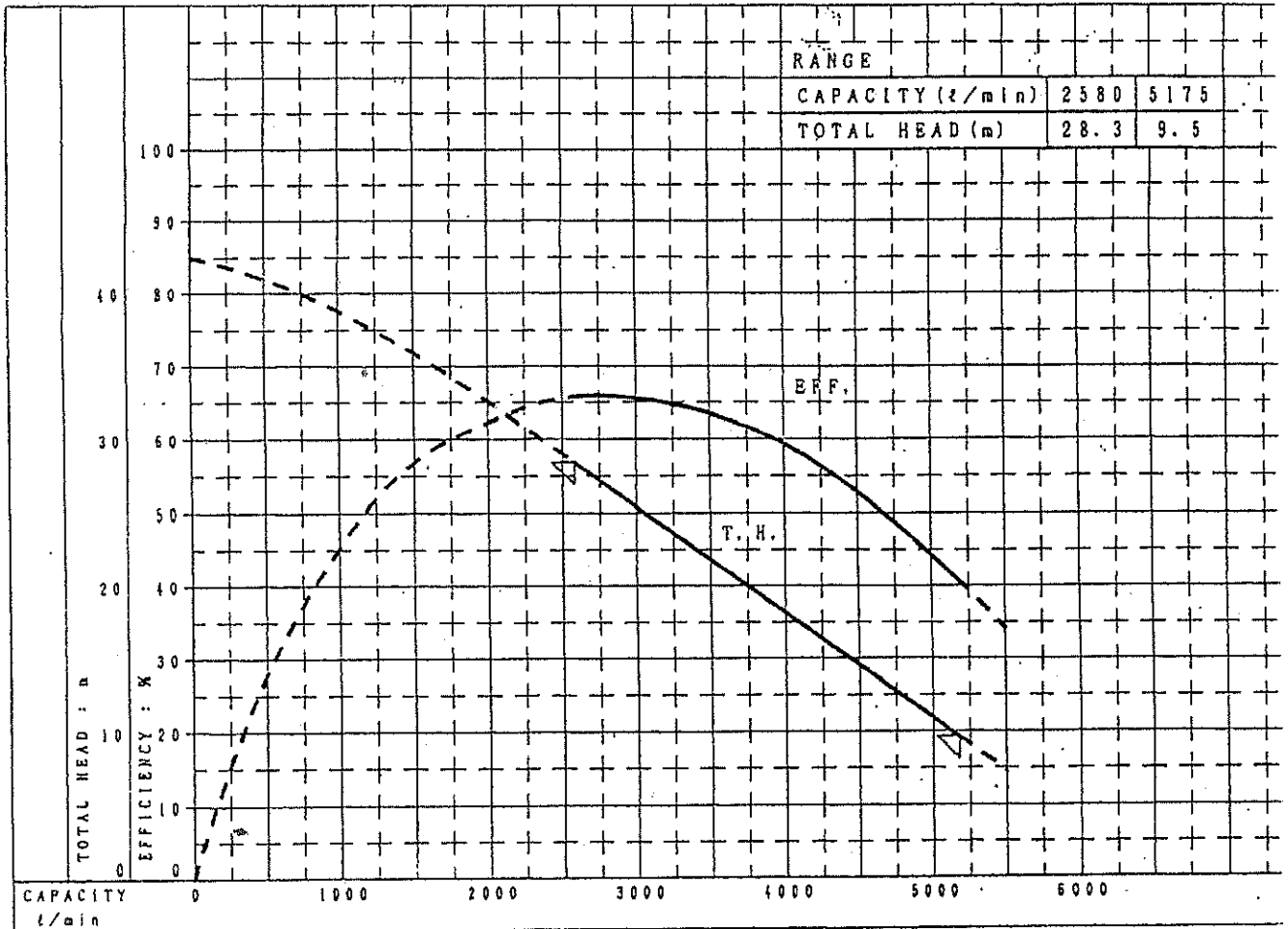


DWG. NO. F8-0132461

PERFORMANCE CURVES

MODEL 150DML622 FREQUENCY 60 Hz OUTPUT 22 kW

MOTOR RATING 380/440/460/480 V SYNCHRONOUS SPEED 1800min⁻¹ 22 kW DRY TYPE
42.4/37.6/36.6/36.6 A



NOTE: THE ABOVE PERFORMANCE CURVES ARE BASED ON THE ANNEX A OF ISO 9906:1999 (E).

Impeller Dia
290mm

SER. NO.	MODEL	CAPACITY	TOTAL HEAD	SPEED	OUTPUT	QTY
				min ⁻¹		

DWG. NO. F-8-0132464

