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APPD.

CHKD.

REVD.

DATE.

M/F

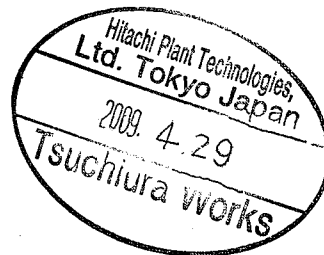
REVISIONS

SYM.

TOTAL 11 SHEETS

SERVICE : CO2 COMPRESSOR FOR
CA MAU FERTILIZER PLANT

ITEM No. : K06101 / KT06101

DOCUMENT TITLE : EXPECTED PERFORMANCE CURVE
OF COMPRESSOR

01	21-APR-2009	ORIGINAL ISSUE	T. Tanaka	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
REV.	DATE	DESCRIPTION	DESIGNED	CHECKED	APPROVED	AUTH'D

VENDOR NAME : HITACHI PLANT TECHNOLOGIES, LTD.

VPI No. 003

SDR No. A50

REGD.	DWN.	T. Tanaka	21. APR. 09	TITLE. EXPECTED PERFORMANCE CURVE OF COMPRESSOR	Hitachi Plant Technologies Tokyo Japan	DWG. No. 3N4-S4274345	SH.	REV. No.
	CHKD.	<i>[Signature]</i>					1 / 11	
	APPD.	<i>[Signature]</i>						

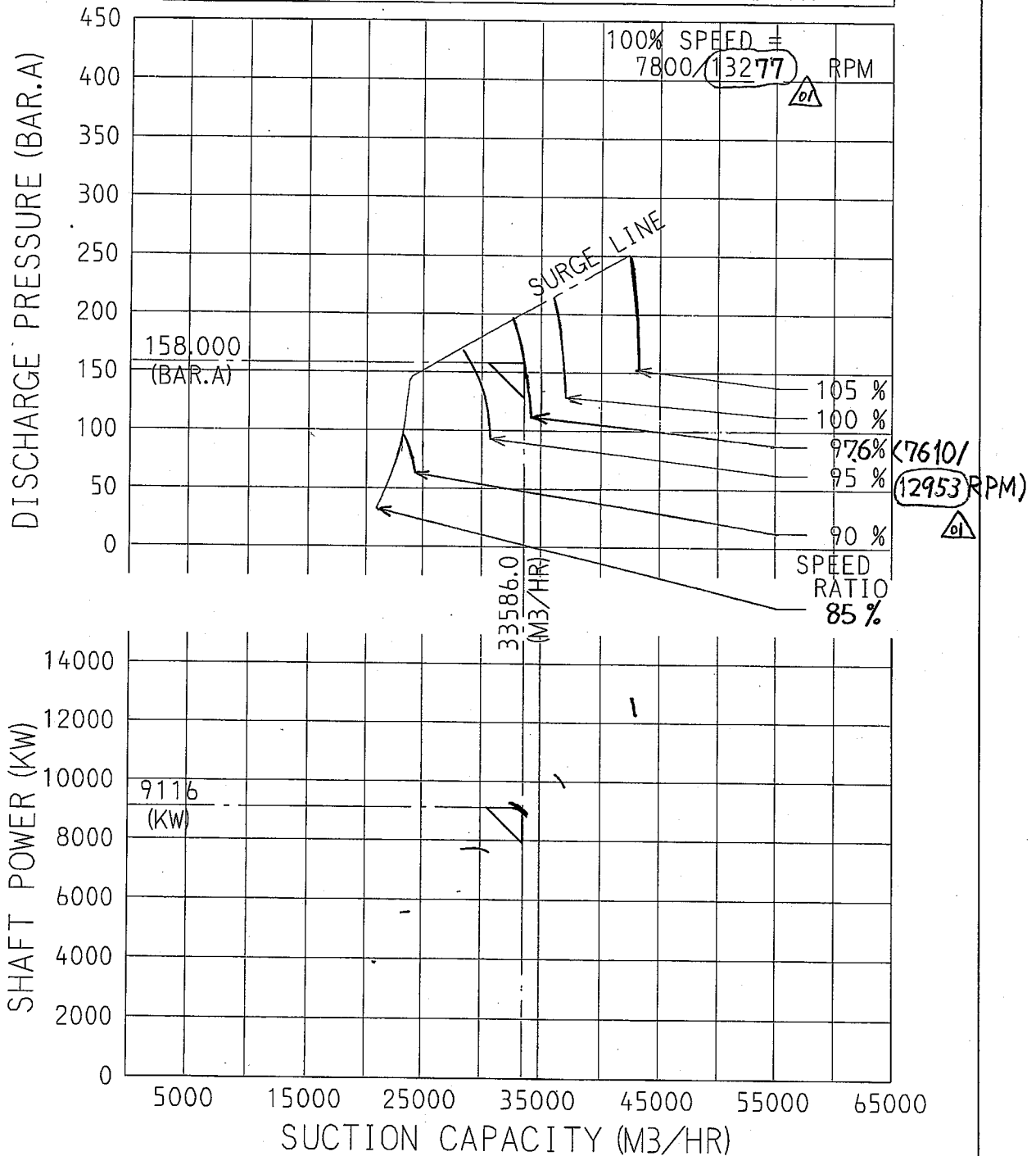
初使用作番-項番

TITLE

EXPECTED PERFORMANCE CURVES OF CO₂ Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO ₂	
MOLECULAR WEIGHT	:	41.85/43.32	△
COMPRESSIBILITY FACTOR	:	0.994	
SPECIFIC HEAT RATIO	:	1.281	△
SUCTION TEMPERATURE	:	45.0	DEG.C
SUCTION PRESSURE	:	1.4	BAR.A



NOTE

Normal Over All

DWG. NO.

B11141817

Rev5

原圖 9

3N4-S4274345

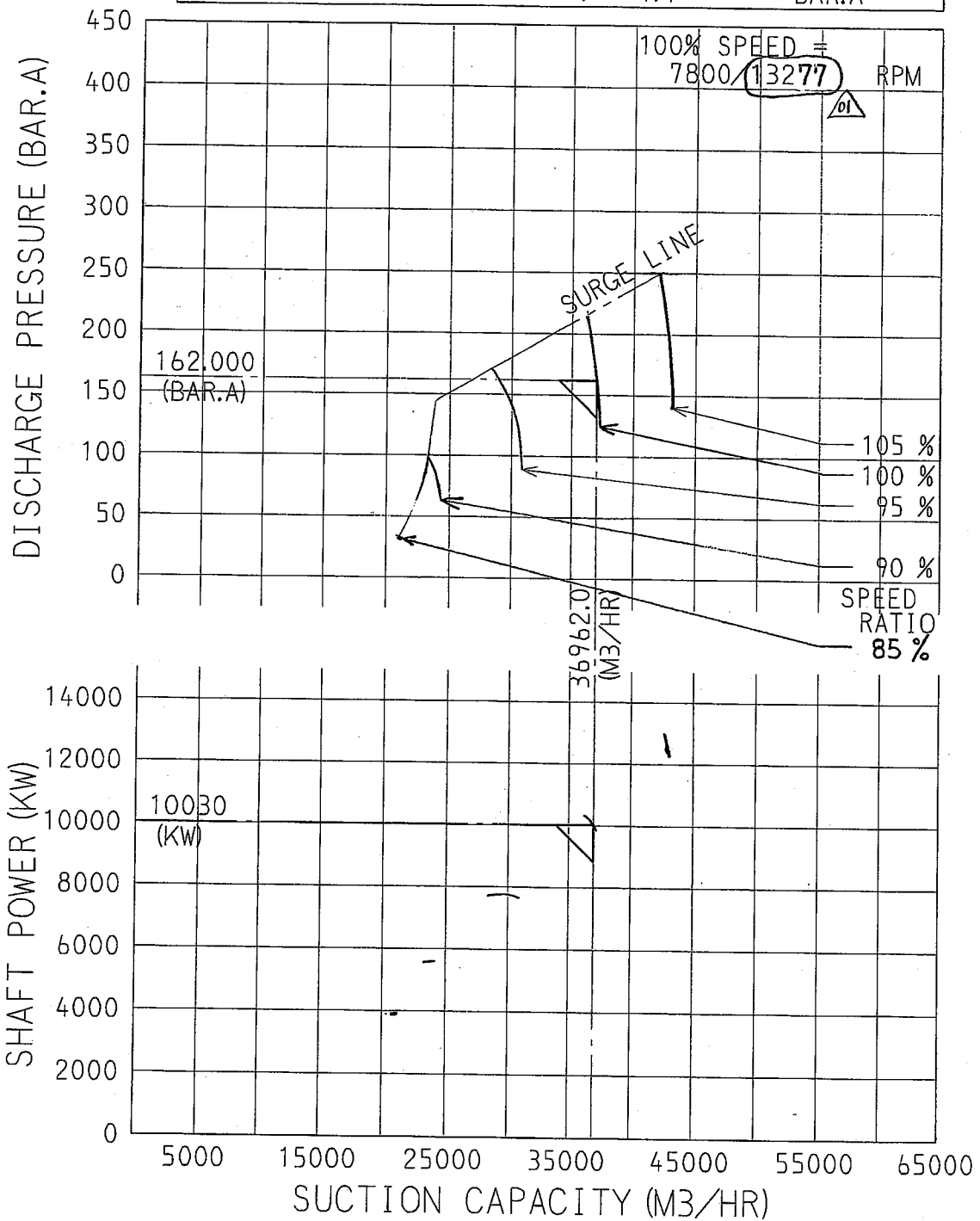
2/

TITLE

EXPECTED PERFORMANCE CURVES OF
CO₂ Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO ₂	
MOLECULAR WEIGHT	:	41.85/43.32	△
COMPRESSIBILITY FACTOR	:	0.994	
SPECIFIC HEAT RATIO	:	1.281	△
SUCTION TEMPERATURE	:	45.0	DEG.C
SUCTION PRESSURE	:	1.4	BAR.A



NOTE

Rated Over All

DWG.NO.

B11141818

Rev 5

原图 0

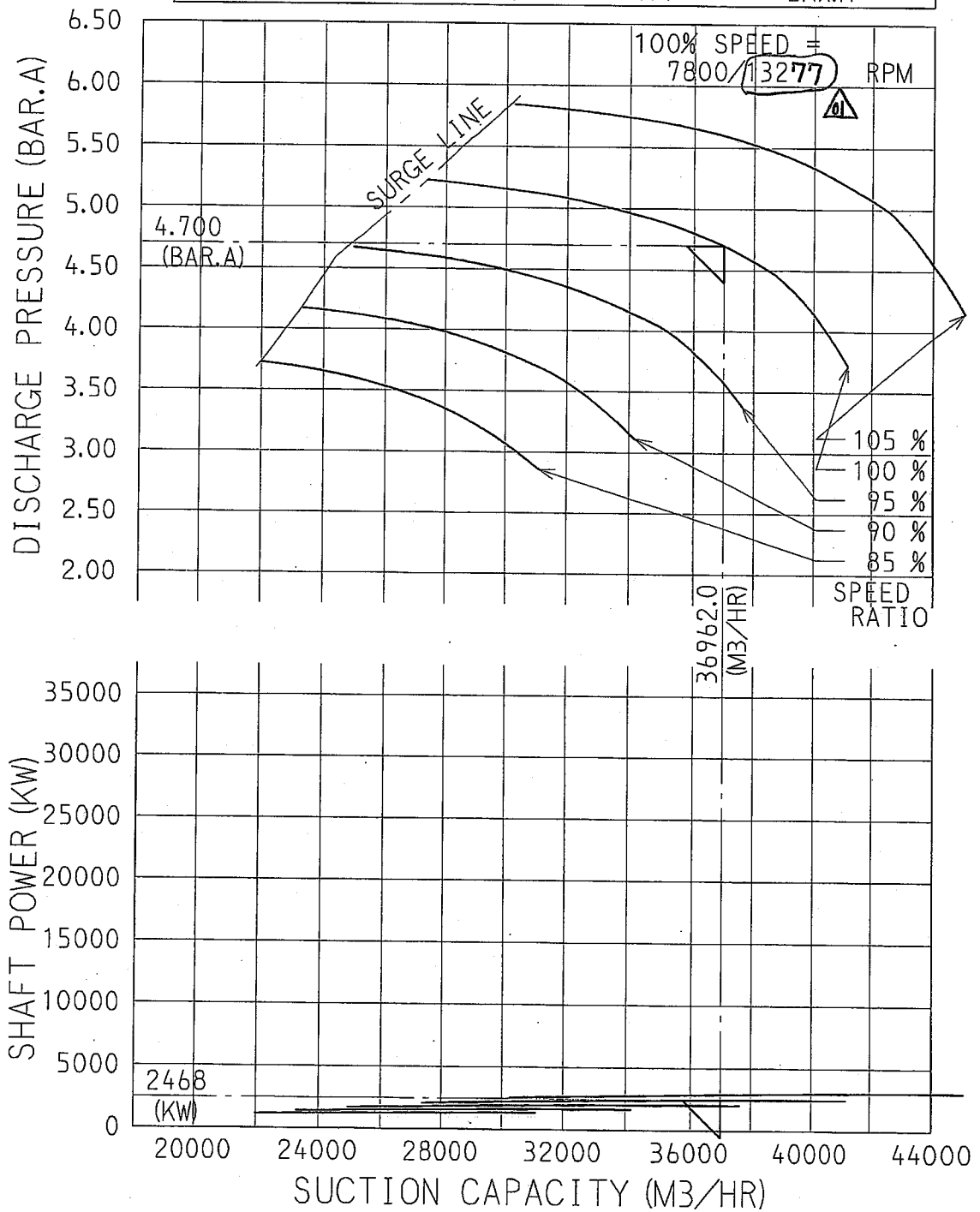
3N4-S4274345 3/

TITLE

EXPECTED PERFORMANCE CURVES OF CO₂ Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO ₂	
MOLECULAR WEIGHT	:	41.85	△
COMPRESSIBILITY FACTOR	:	0.994	
SPECIFIC HEAT RATIO	:	1.281	△
SUCTION TEMPERATURE	:	45.0	DEG.C
SUCTION PRESSURE	:	1.4	BAR.A



NOTE

Rated 1st

DWG. NO.

B11141819

Rev5

原图 0

3N4-S4274345

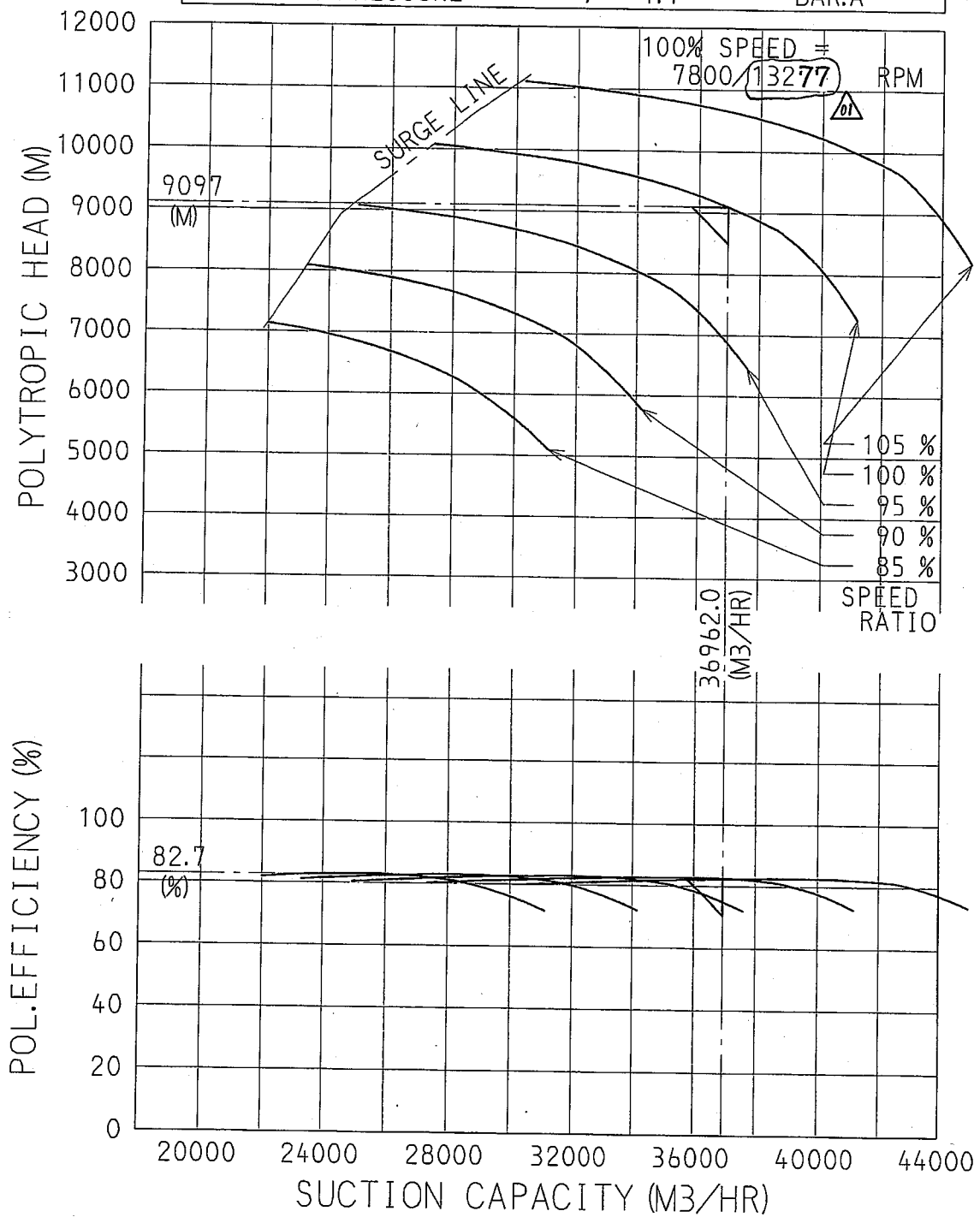
4/

TITLE

EXPECTED PERFORMANCE CURVES OF
CO₂ Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO ₂	
MOLECULAR WEIGHT	:	41.85	△
COMPRESSIBILITY FACTOR	:	0.994	
SPECIFIC HEAT RATIO	:	1.281	△
SUCTION TEMPERATURE	:	45.0	DEG.C
SUCTION PRESSURE	:	1.4	BAR.A



NOTE

Rated 1st

DWG. NO.

B11141820

Rev5

原图 0

3N4-S4274345

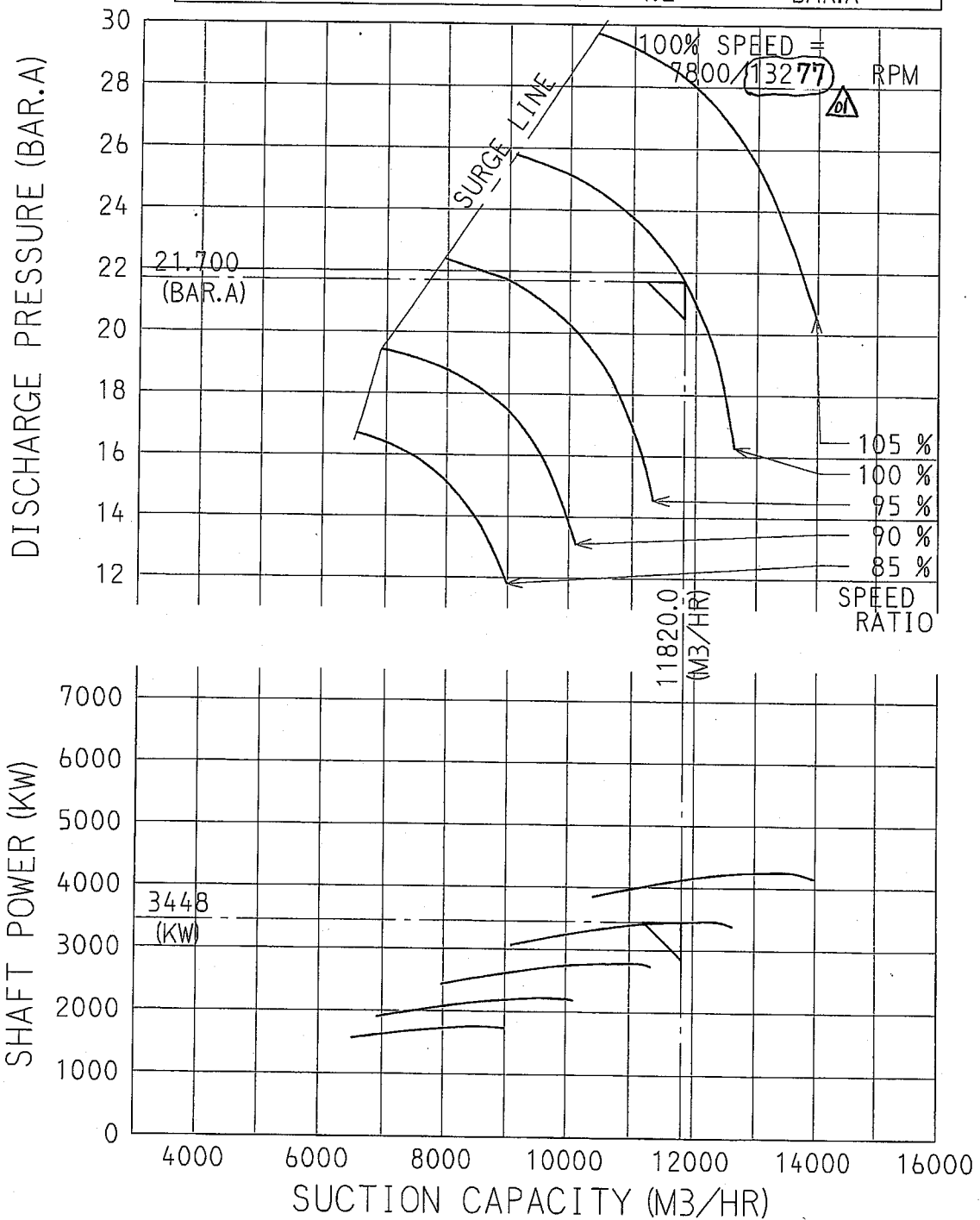
5/

TITLE

EXPECTED PERFORMANCE CURVES OF CO₂ Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO ₂	
MOLECULAR WEIGHT	:	42.86	
COMPRESSIBILITY FACTOR	:	0.982	
SPECIFIC HEAT RATIO	:	1.278	△
SUCTION TEMPERATURE	:	45.0	DEG.C
SUCTION PRESSURE	:	4.2	BAR.A



NOTE

Rated 2nd

DWG.NO.

B11141821

Rev5

原圖 0

3N4-S4274345

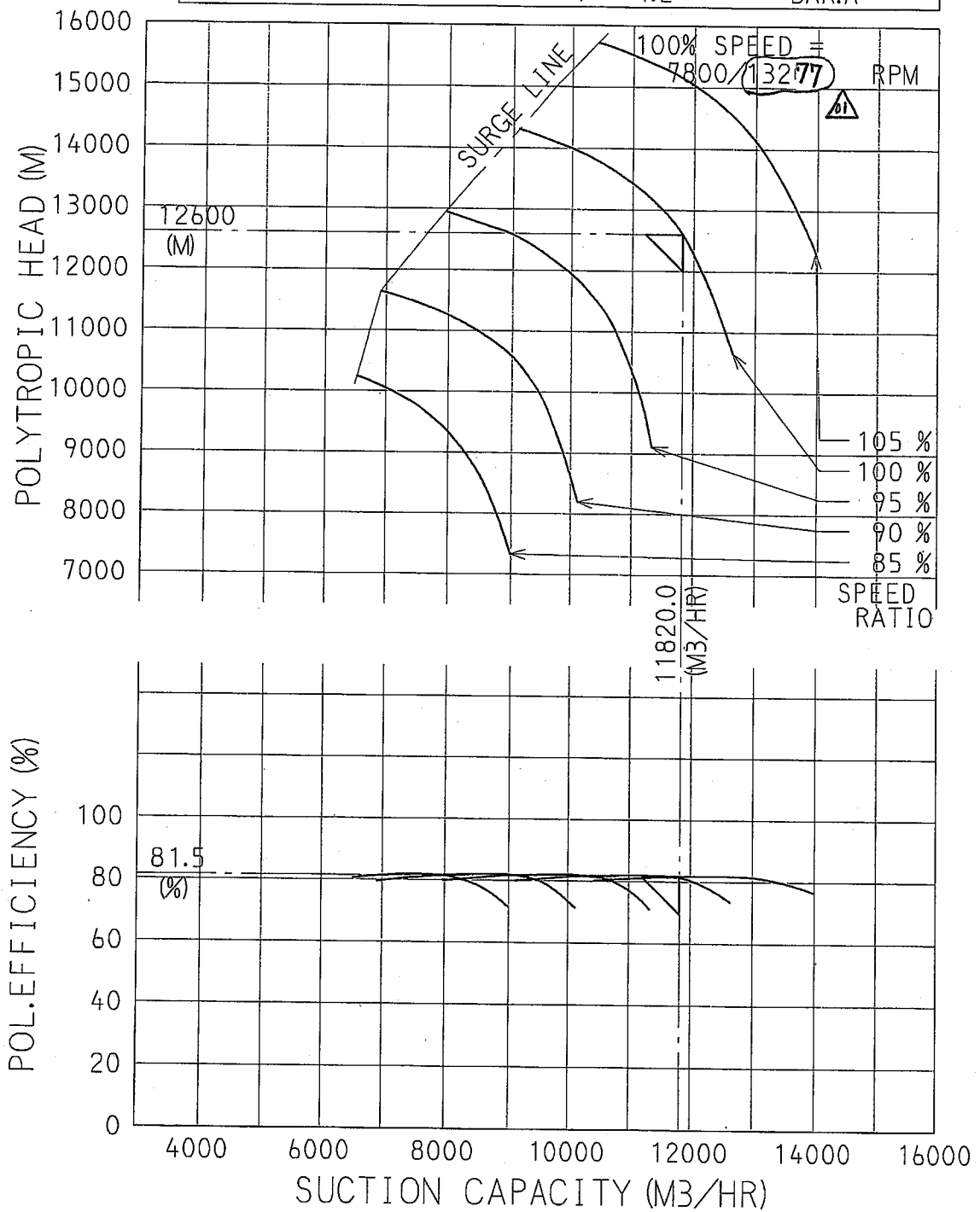
6/

TITLE

EXPECTED PERFORMANCE CURVES OF
CO₂ Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO ₂	
MOLECULAR WEIGHT	:	42.86	
COMPRESSIBILITY FACTOR	:	0.982	
SPECIFIC HEAT RATIO	:	1.278	△
SUCTION TEMPERATURE	:	45.0	DEG.C
SUCTION PRESSURE	:	4.2	BAR.A



NOTE

Rated 2nd

DWG.NO.

B11141822

Rev5

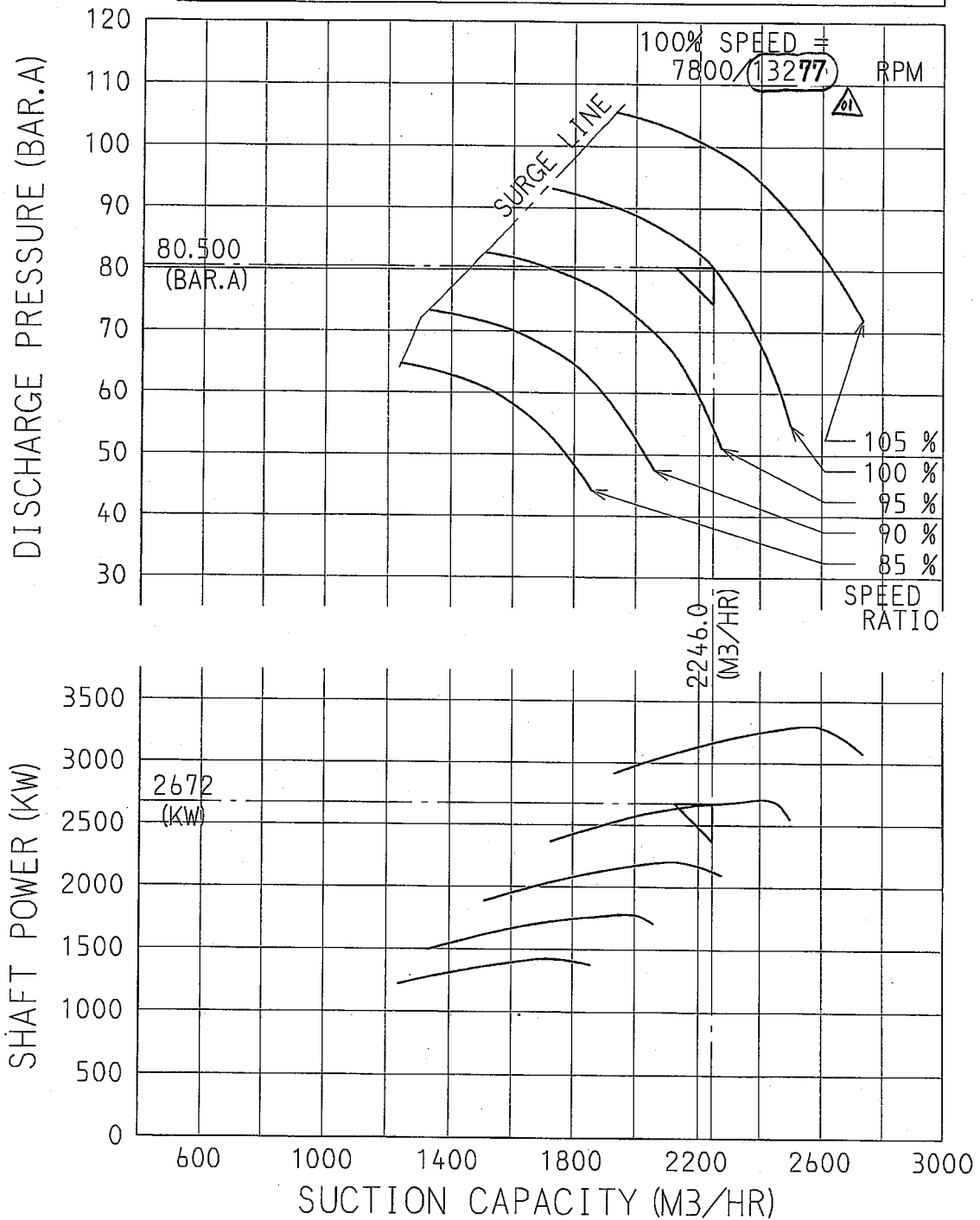
原图 0

3N4-S4274345 7/

TITLE EXPECTED PERFORMANCE CURVES OF
CO2 Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO2	
MOLECULAR WEIGHT	:	43.32	△
COMPRESSIBILITY FACTOR	:	0.970	
SPECIFIC HEAT RATIO	:	1.266	
SUCTION TEMPERATURE	:	45.0	DEG.C
SUCTION PRESSURE	:	20.9	BAR.A



NOTE

Rated 3rd

DWG.NO.

B11141823

原図 9

3N4-S4274345

Rev5

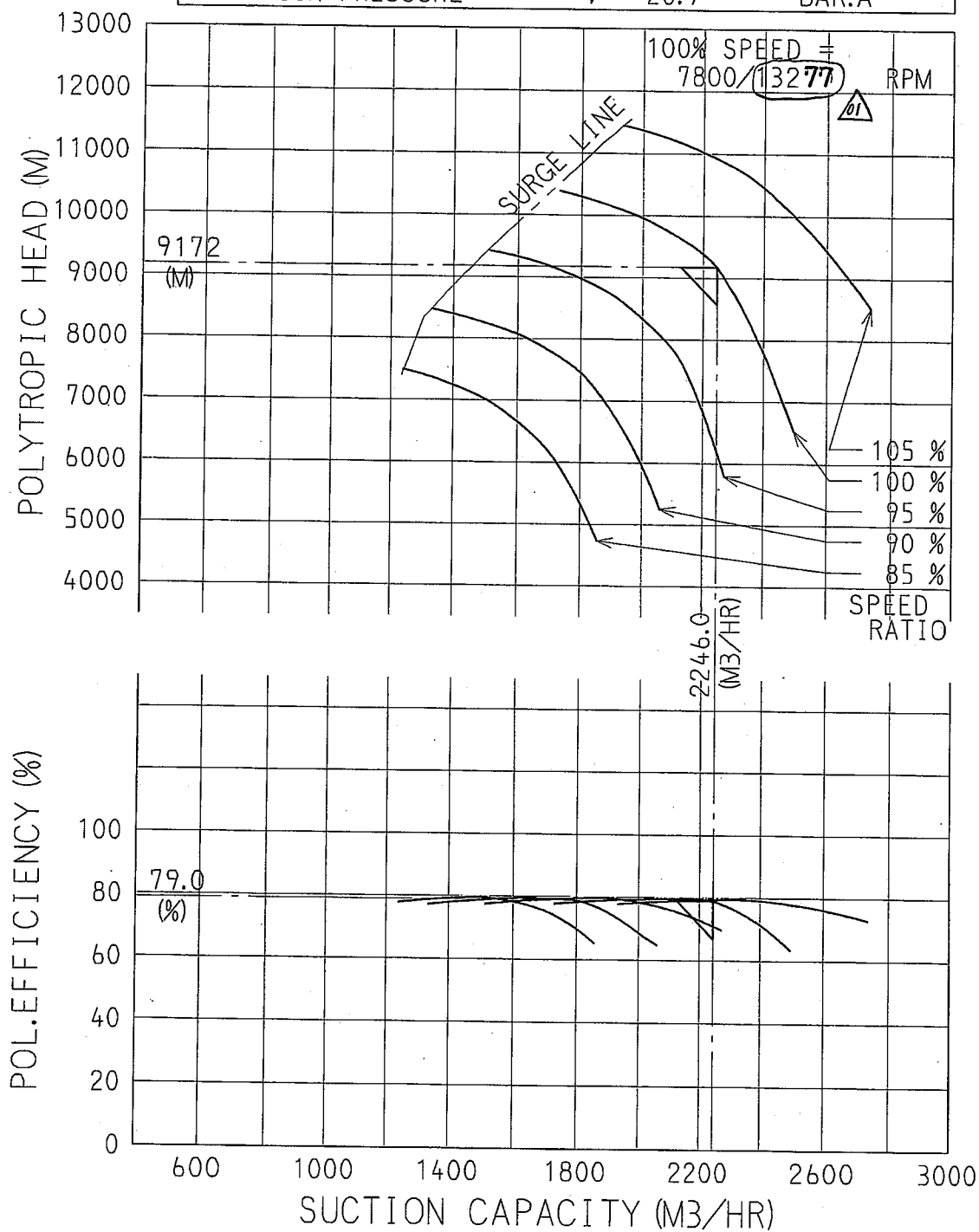
8/

TITLE

EXPECTED PERFORMANCE CURVES OF CO₂ Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO ₂	
MOLECULAR WEIGHT	:	43.32	△
COMPRESSIBILITY FACTOR	:	0.910	
SPECIFIC HEAT RATIO	:	1.266	
SUCTION TEMPERATURE	:	45.0	DEG.C
SUCTION PRESSURE	:	20.9	BAR.A



NOTE

Rated 3rd

DWG. NO.

B11141824

原図 0

3N4-S4274345

9/

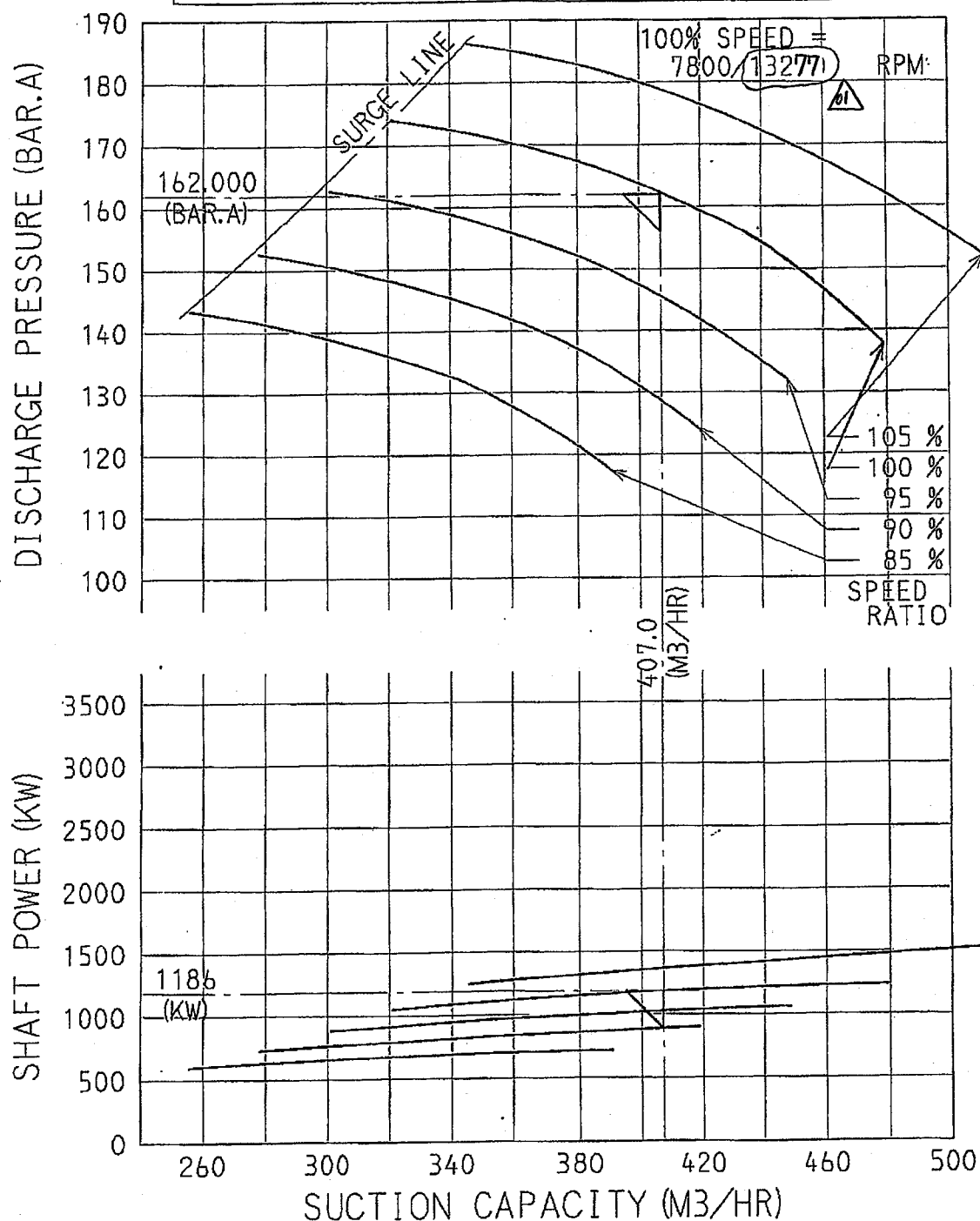
Rev5

TITLE

EXPECTED PERFORMANCE CURVES OF CO2 Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO2	
MOLECULAR WEIGHT	:	43.40	
COMPRESSIBILITY FACTOR	:	0.617	
SPECIFIC HEAT RATIO	:	1.379	
SUCTION TEMPERATURE	:	50.0	DEG.C
SUCTION PRESSURE	:	79.5	BAR.A



NOTE

Rated 4th

DWG.NO.

B11141825

Rev 5

原図 0

3N4-S4274345

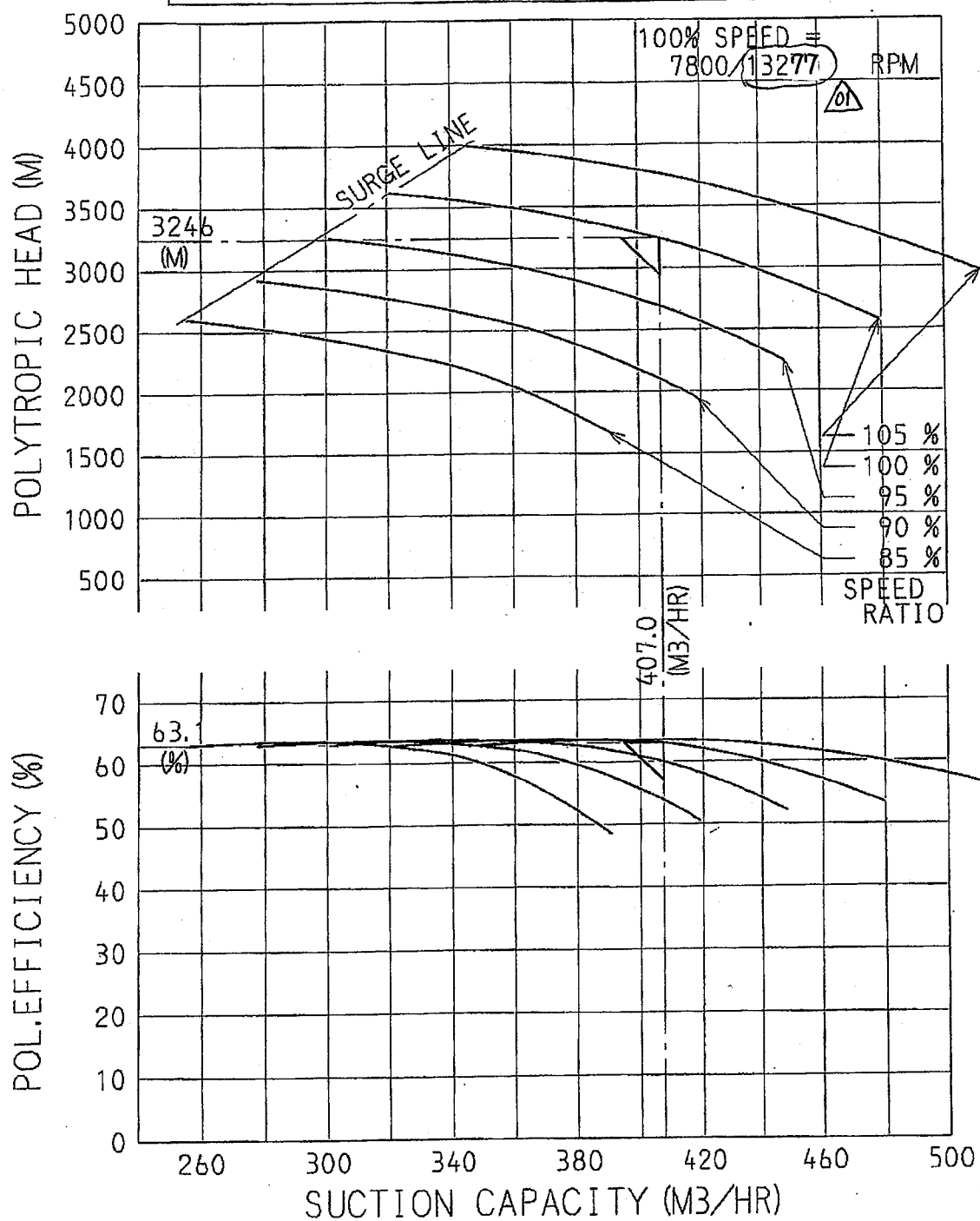
10/

TITLE

EXPECTED PERFORMANCE CURVES OF
CO₂ Compressor

THESE CURVES ARE VALID IN THE FOLLOWING CONDITIONS.

GAS HANDLED	:	CO ₂	
MOLECULAR WEIGHT	:	43.40	
COMPRESSIBILITY FACTOR	:	0.617	
SPECIFIC HEAT RATIO	:	1.379	
SUCTION TEMPERATURE	:	50.0	DEG.C
SUCTION PRESSURE	:	79.5	BAR.A



NOTE

Rated 4th

DWG.NO.

B11141826

Rev 5

原图 0

3N4-S4274345

1/E