ABB Electrical machine Ltd. Engineering	Classifying code or document type: PERFORMANCE DATA OF MOTOR	ABB

Department/Author	Date of issue	Lang.	Rev. date	Our ref.		
Trevor-qinglin.zeng	1/16/2019	En		2800IY200		
Customer ref.			**Saving Ident**	**Rev./Changed by**		**Pages**
592_Enerflex: 02C 7.4_1750HP,6P,4k				A		1/2

Driven Motor: Reciprocating compressor

Motor type code			AMI 500L6W BSFNS
Motor type			Squirrel cage Motor
Type of Ex-protection			Class I Division 2 Group D T3 (NEC or CEC)
Mounting designation			F-1
Protected by enclosure			WP-II
Method of cooling			WP-II
Insulation			Class F
Service factor			SF1.0 TEMP RISE 80 °C RES
Standards			NEMA
Specification			API 541, 5th edit.
Ambient temperature, max.			40 °C
Altitude, max.			3280 ft.a.s.l.
Converter supply			ACS 5000
Duty type			Continuous
Temp. rise			Class B (RES)
Connection of stator winding			Star
Rated output	875 -	1750	HP
Voltage	2032 -	4000	V
Frequency	30.3 -	60.3	Hz
Speed	599 -	1199	rpm
Current	224 -	226	A
Power Factor	0.87 -	0.87	
Efficiency	94.7 -	95.4	%
Relat. maximum torque	2.2 -	2.3	
Rated torque	7671 -	7665	lb-ft
Overload		60s every 200s	
Mechanical power	1312 -	2625	HP
Speed	598 -	1198	rpm
Current	337 -	339	A
Direction of rotation			Bi-directional
Inertia rotor			Approx. 1712 lb-ft²
Bearings			Sleeve self lubricated

Enerflex Ltd. VENDOR DRAWING/DOCUMENT REVIEW CODES

1	☑	Reviewed and accepted with no comment.
2	☐	Reviewed and accepted with comment. Work may proceed subject to incorporation of comments.
3	☐	Revise and resubmit. Work will NOT proceed.
4	☐	Review not required (for information only).

Reviewed only as to general conformity with the design concept and specifications provided. Sole responsibility for correct design, detail and dimensions shall remain with the party submitting the document.

Checked By	Date	Project No.
dwallace	2/14/2019	E104026

Typical calculated values to NEMA. This performance data is final and the Motor will be manufactured accordingly.

Voltage limitations in converter operation (at motor terminals taking cable reflections into account) :
Max. allowed voltage stress phase to phase = 10 kV peak
Max. allowed voltage stress phase to ground = 5,8 kV peak
Max. du/dt = 2,7 kV/us
Max. common mode voltage: 500V peak
Max. common mode voltage rise time: max 70 V / us
Note that corona protection structure needs to be serviced according to motor manual.

ABB Electrical machine Ltd.

Engineering	Visiting Address	Postal Address	Telephone	Telefax
	No. 380.Tianxing Rd Minhang District PR China	200245 shanghai China	86-021-61137620	

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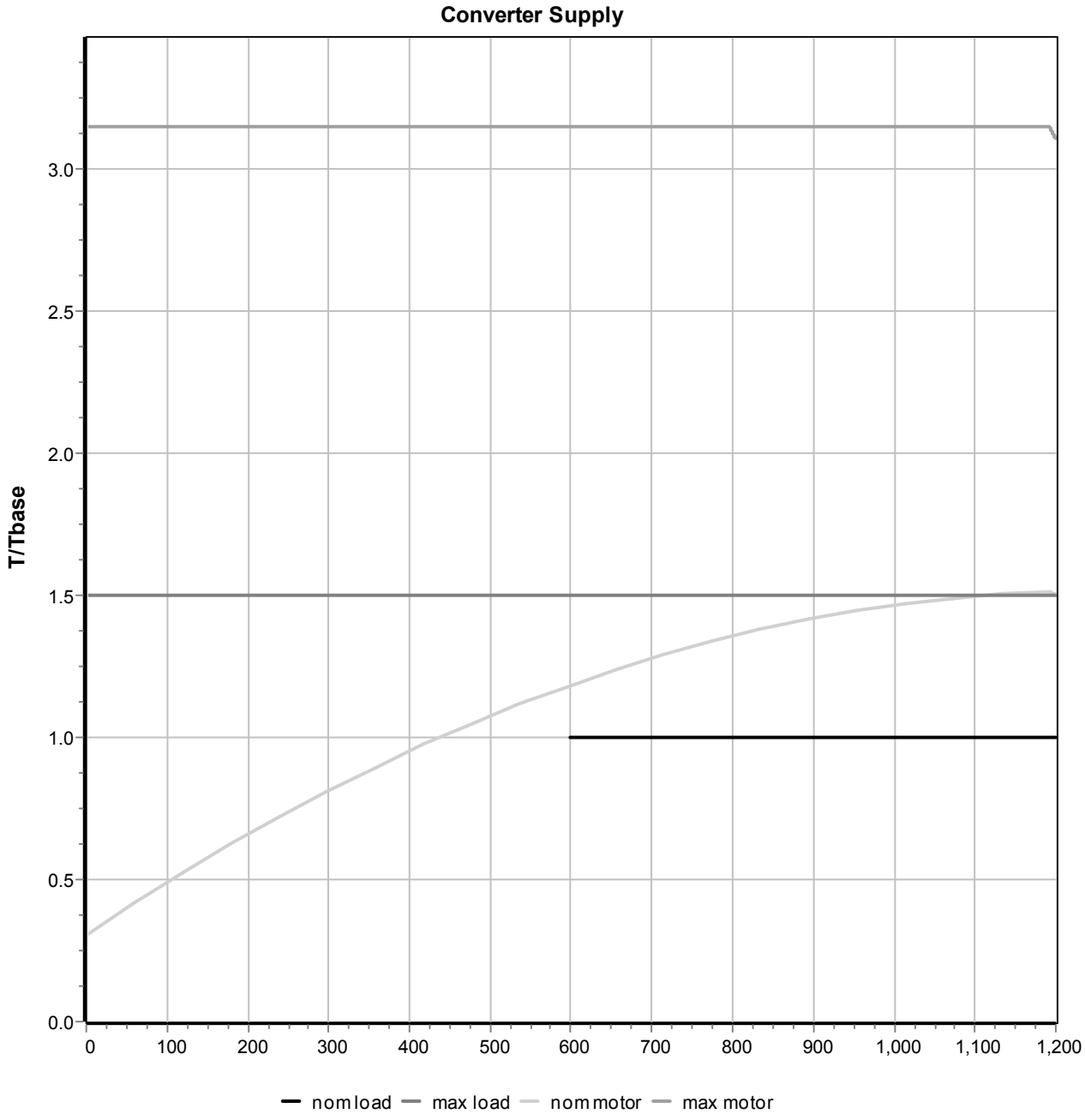

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