







OWNER:  شرکت سست و سویی گستره ایران (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	COMPRESSOR MOTOR CURVE FOR EMERGENCY INSTRUMENT AIR COMPRESSOR						 Netherlands		
MC :  شرکت سست و سویی گستره ایران (سهامی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No: 52-98/445	
Owner Document Number: 17811-54B	BU	20	VD	303	EL	DIG	0100	Rev.:	Page
								01	1 of 5

COMPRESSOR MOTOR CURVE FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 شرکت سست و سویی گستره ایران (سهامی خاص)		 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT	
Document Review					
Issue Purpose:			IFA		
Result Code: AP,AN,CM,RE,NC			AP		
Next Status : IFC,IFA,IFI,AFC,AB			AFC		
Responsible Department			MECHANICAL		
Commented Date			Jan/20/2022		
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.					

01	06/01/2022	For approval	KP	LdM	JR	
00	10/12/2021	For approval	KP	LdM	JR	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

TORQUE AND CURRENT X SPEED CURVE

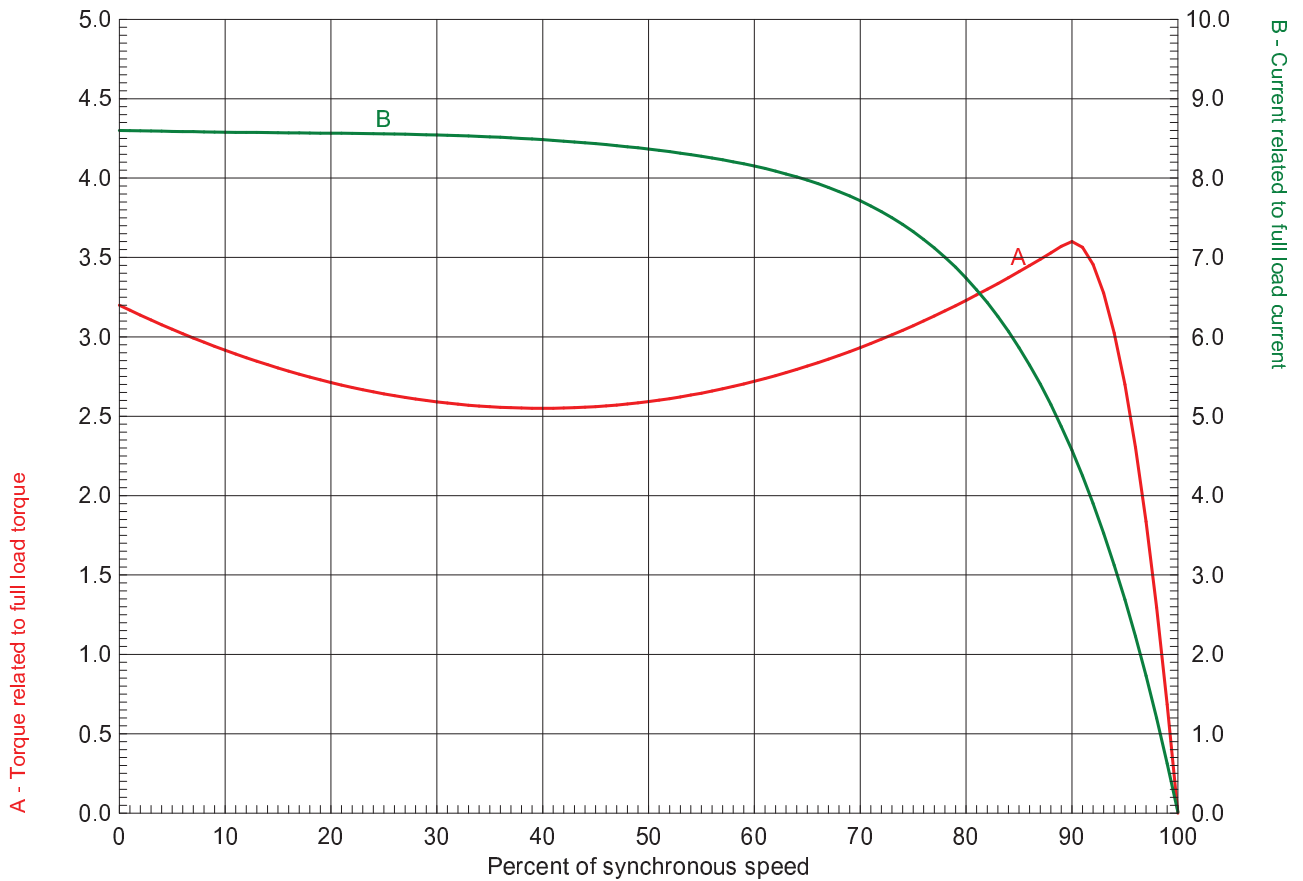


Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : W22Xdb Flameproof - Super Premium Efficiency IE4 (400/690//460V)

Product code : 16354333



Performance : 15 kW (20 HP) 400/690 V 50 Hz 4P 160M/L

Rated current	: 29.2/16.9 A	Moment of inertia (J)	: 0.1813 kgm ²
LRC (p.u.)	: 8.6	Duty cycle	: S1
Rated torque	: 96.9 Nm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1479 rpm	Design	: N

Locked rotor time 100% : 19 s (hot) 34 s (cold)
 Load inertia (J=GD²/4) : 0.18125 kgm²

Rev.	Summary of changes	Performed	Checked	Date
Performed by	ydamhuis	345288/2021-A1		
Checked by	AUTOMATICO	Page	Revision	
Date	10/12/2021	3/6	0	

LOAD PERFORMANCE CURVE

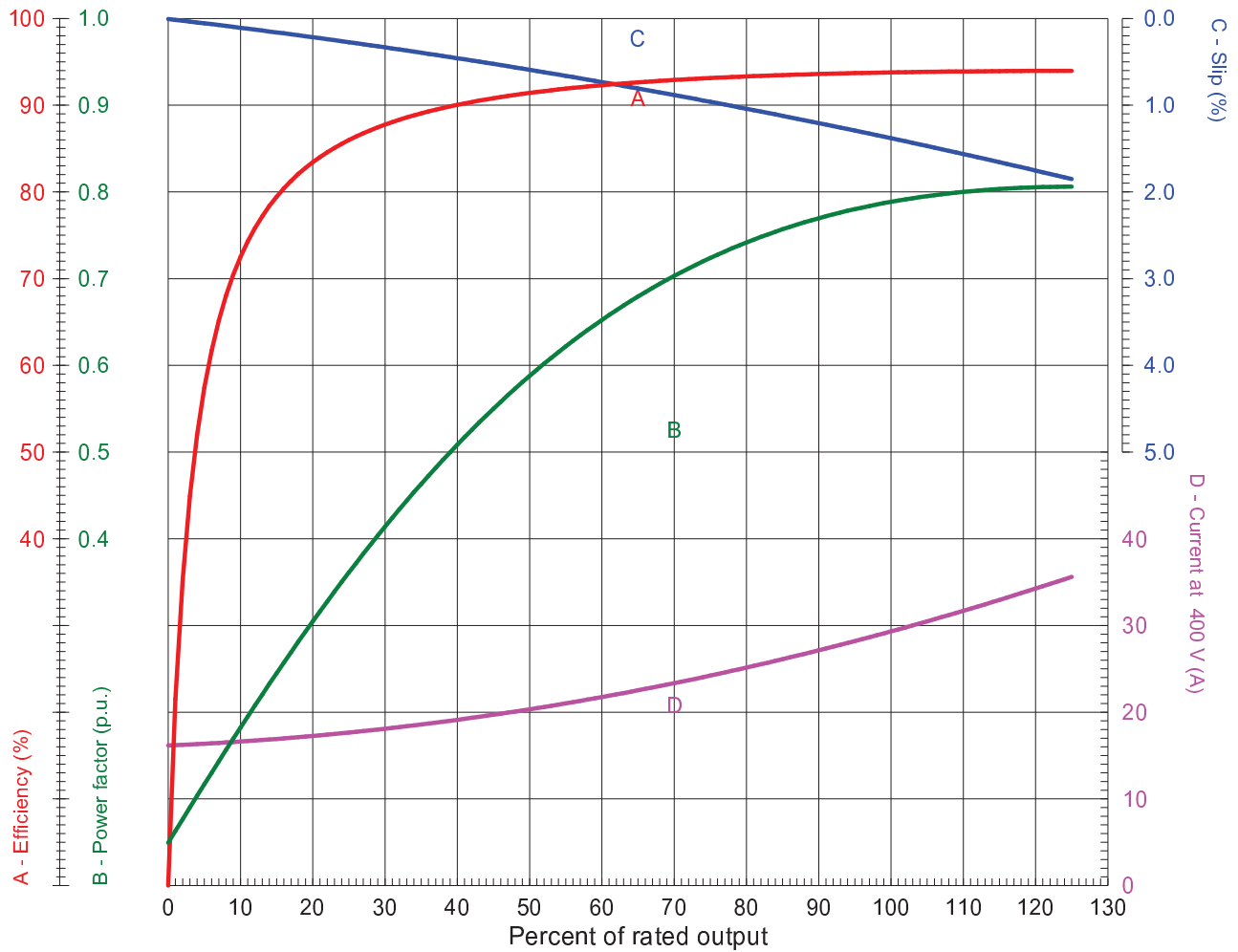


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Breakdown torque : 360 %	Temperature rise : 80 K
Rated speed : 1479 rpm	Design : N

Rev.	Summary of changes	Performed	Checked	Date
Performed by	ydamhuis	345288/2021-A1		
Checked by	AUTOMATICO	Page	Revision	
Date	10/12/2021	4/6	0	

THERMAL LIMIT CURVE

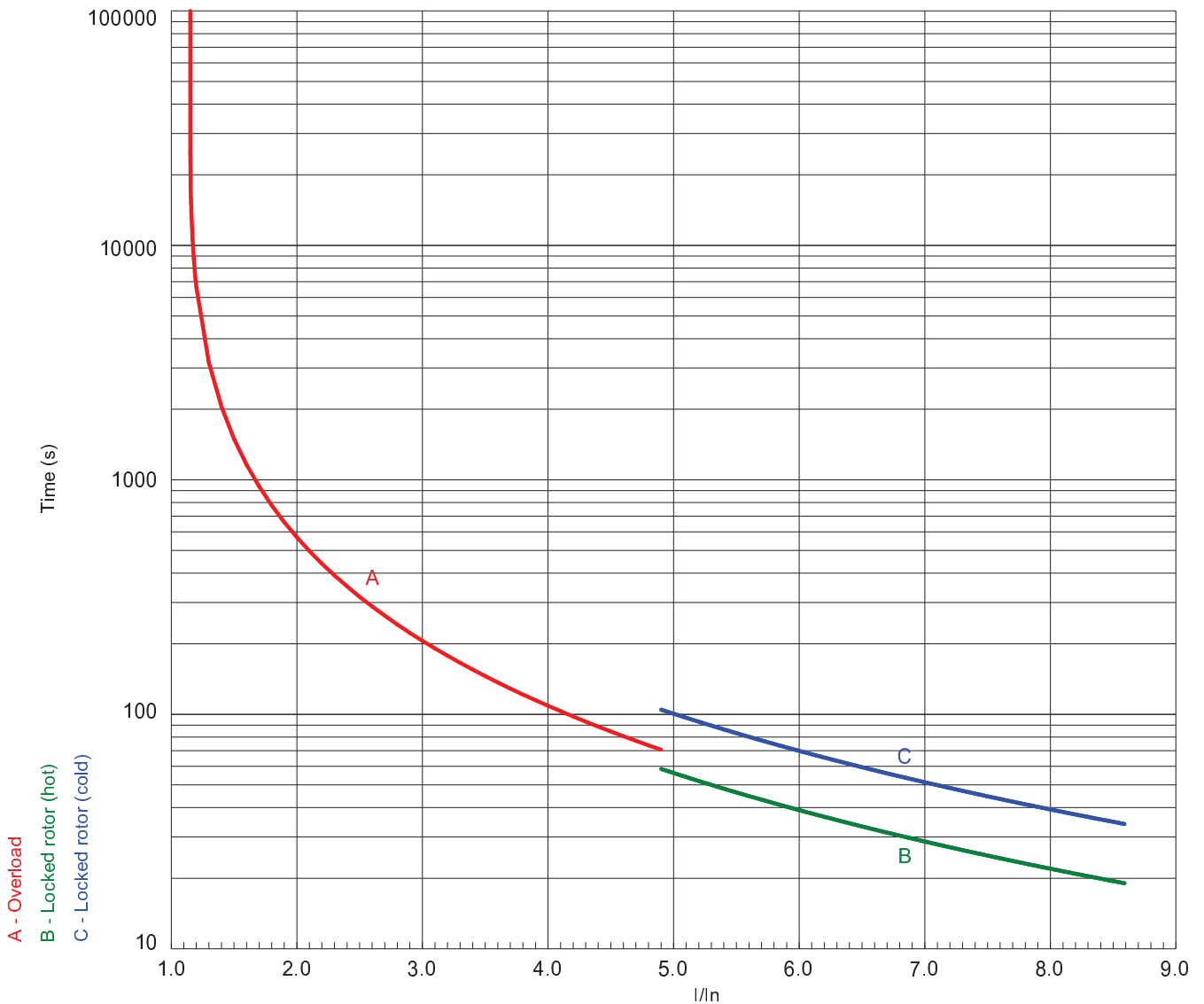


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LRC (p.u.)	: 8.6	Duty cycle	: S1
Rated torque	: 96.9 Nm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1479 rpm	Design	: N

Heating constant : 27.6 min
Cooling constant : 82.8 min

Rev.	Summary of changes	Performed	Checked	Date
Performed by	ydamhuis	345288/2021-A1		
Checked by	AUTOMATICO	Page	Revision	
Date	10/12/2021	5/6	0	