DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage

Frame	: 315S/M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B5T
Duty cycle	: S1	Direct of rotation[1]	: Both
Ambient temperature	: -20 ℃ to +40 ℃	Starting method	: Inverter
Altitude	: 1000 m.a.s.l	Approx. weight[3]	: 988 kg
Degree of protection	: IP55	Moment of inertia (J)	: 1.96 kgm²
Design	: N		

Output		132 kW	132 kW	132 kW	132 kW
Poles		2	2	2	2
Frequency		50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage		380/660 V	400/690 V	415 V	460 V
Rated current		233/134 A	224/130 A	218 A	197 A
L. R. Amperes		1608/926 A	1702/987 A	1766 A	1675 A
LRC (p.u.)		6.9	7.6	8.1	8.5 x Code J
No load current		66.6/38.4 A	72.3/41.9 A	77.6 A	67.7 A
Rated speed		2975 rpm	2980 rpm	2980 rpm	3580 rpm
Slip		0.83 %	0.67 %	0.67 %	0.56 %
Rated torque		424 Nm	423 Nm	423 Nm	352 Nm
Locked rotor torque		180 %	210 %	220 %	230 %
Breakdown torque		280 %	310 %	340 %	340 %
Service factor		1.00	1.00	1.00	1.00
Noise level[2]		77.0 dB(A)	77.0 dB(A)	77.0 dB(A)	81.0 dB(A)
Locked rotor time		34 s (hot) 61 s (cold)	34 s (hot) 61 s (cold)	34 s (hot) 61 s (cold)	34 s (hot) 61 s (cold)
Efficiency (%)	50%	94.7	94.5	94.3	92.9
	75%	95.5	95.4	95.4	94.5
	100%	95.6	95.6	95.6	95.4
Power factor	Start	0.33	0.33	0.33	0.32
	50%	0.81	0.78	0.75	0.77
	75%	0.87	0.86	0.84	0.85
	100%	0.90	0.89	0.88	0.88

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	5000 h	5000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads

Maximum traction : 6485 N

Maximum compression : 16177 N

This revision replaces and cancels the previous one, which must be eliminated.

(1) When viewed from the drive end.

(2) Measured at 1m and with tolerance of +3dB(A).

(3) Approximate weight subject to changes after manufacturing process.

(4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Summary of changes	Performed	Checked	Date

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage

Operation limits with inverter

5 Hz up to 50 Hz (Variable torque): 424 Nm

Maximum peak voltage phase-to-phase	<= 1600 V
dV/dt	<= 5200 V/µs
Rise time	>= 0,1 µs

Notes:

Standards

Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Tests	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

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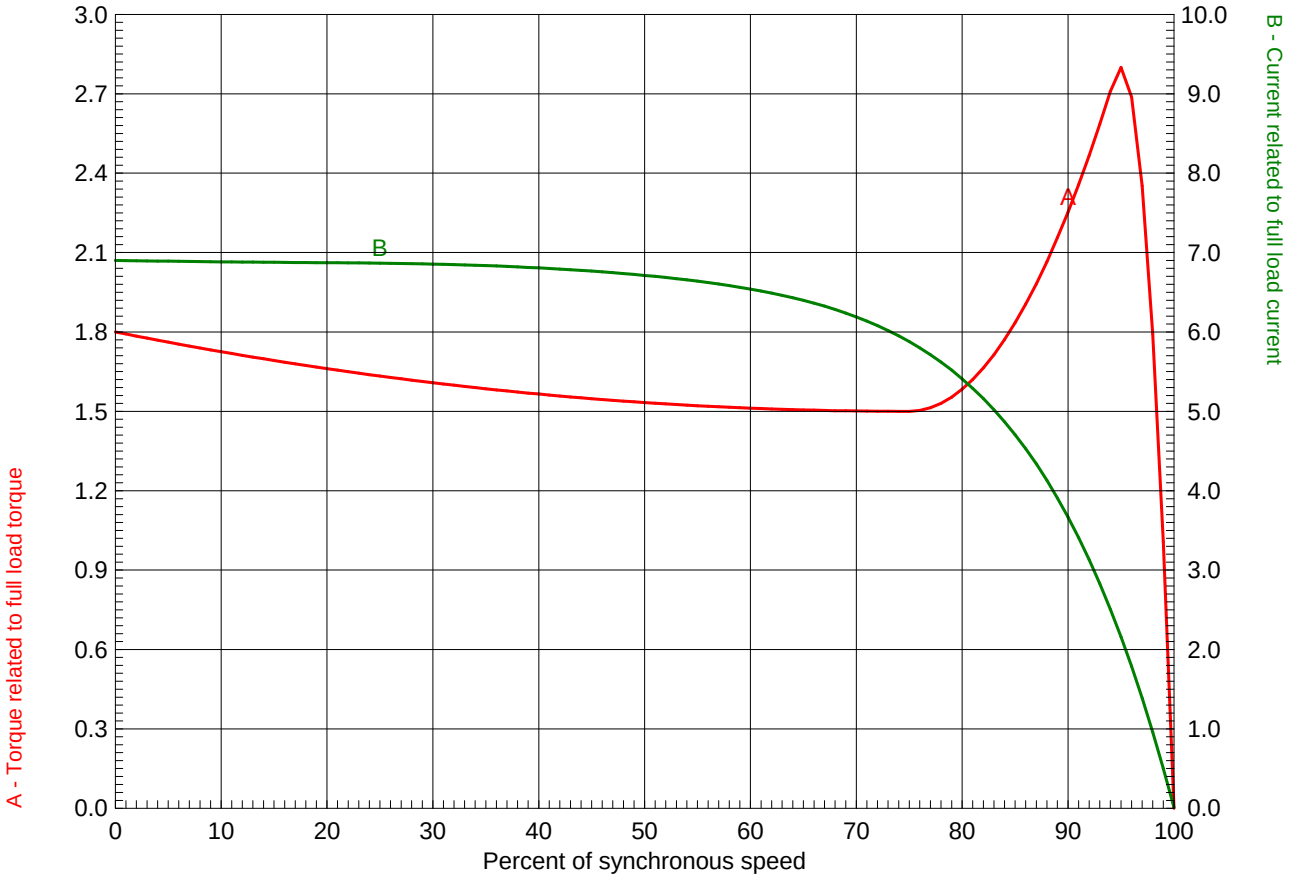
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TORQUE AND CURRENT X SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 380/660 V 50 Hz 2P 315S/M			
Rated current	:	233/134 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	6.9	Duty cycle	:	S1
Rated torque	:	424 Nm	Insulation class	:	F
Locked rotor torque	:	180 %	Service factor	:	1.00
Breakdown torque	:	280 %	Temperature rise	:	80 K
Rated speed	:	2975 rpm	Design	:	N
Locked rotor time 100%	:	34 s (hot) 61 s (cold)			
Load inertia (J=GD²/4)	:	1.96 kgm²			

Rev.	Summary of changes	Performed	Checked	Date

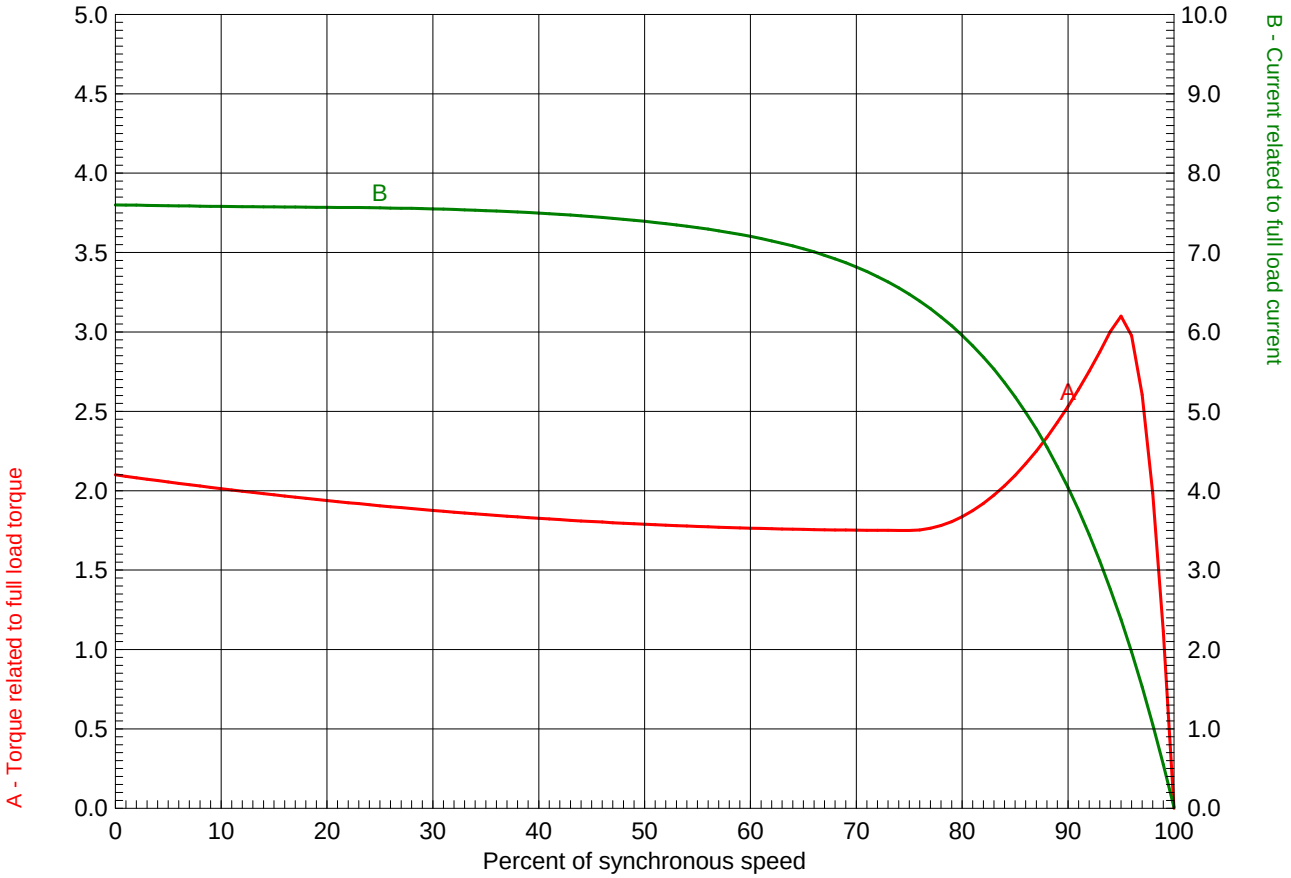
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TORQUE AND CURRENT X SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 400/690 V 50 Hz 2P 315S/M			
Rated current	:	224/130 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	7.6	Duty cycle	:	S1
Rated torque	:	423 Nm	Insulation class	:	F
Locked rotor torque	:	210 %	Service factor	:	1.00
Breakdown torque	:	310 %	Temperature rise	:	80 K
Rated speed	:	2980 rpm	Design	:	N
Locked rotor time 100%	:	34 s (hot) 61 s (cold)			
Load inertia (J=GD²/4)	:	1.96 kgm²			

Rev.	Summary of changes	Performed	Checked	Date

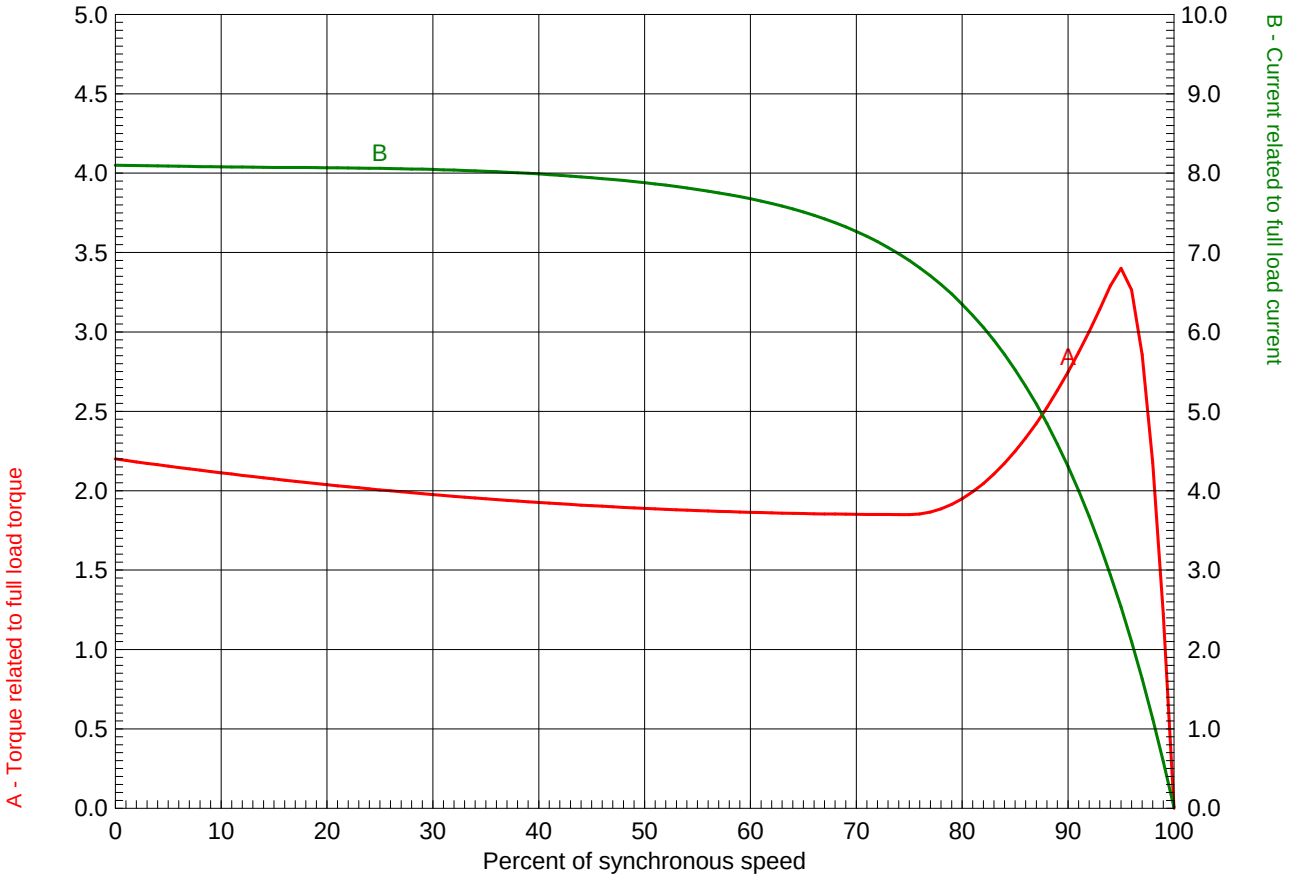
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TORQUE AND CURRENT X SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 415 V 50 Hz 2P 315S/M			
Rated current	:	218 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	8.1	Duty cycle	:	S1
Rated torque	:	423 Nm	Insulation class	:	F
Locked rotor torque	:	220 %	Service factor	:	1.00
Breakdown torque	:	340 %	Temperature rise	:	80 K
Rated speed	:	2980 rpm	Design	:	N
Locked rotor time 100%	:	34 s (hot) 61 s (cold)			
Load inertia (J=GD²/4)	:	1.96 kgm²			

Rev.	Summary of changes	Performed	Checked	Date

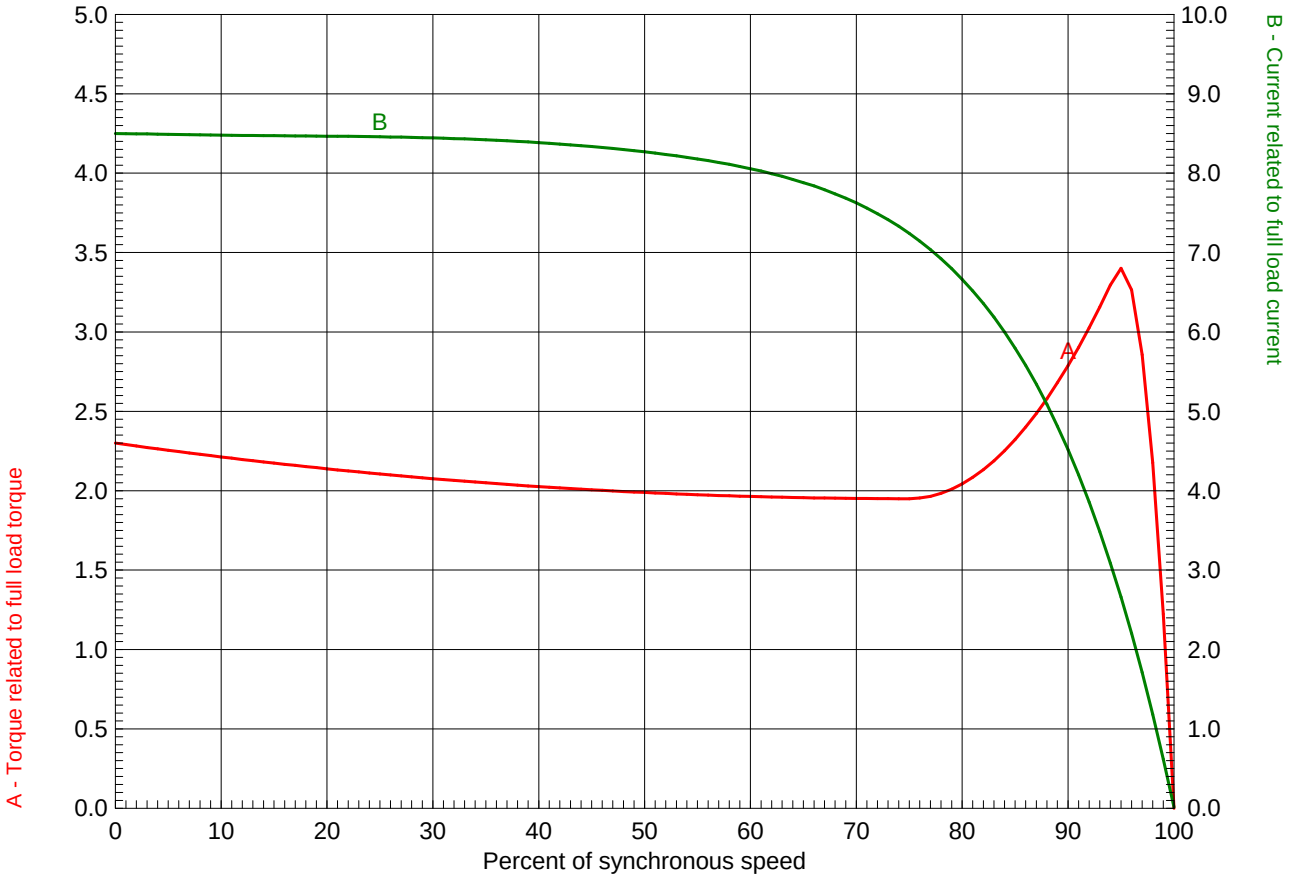
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TORQUE AND CURRENT X SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 460 V 60 Hz 2P 315S/M			
Rated current	:	197 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	8.5 Code J	Duty cycle	:	S1
Rated torque	:	352 Nm	Insulation class	:	F
Locked rotor torque	:	230 %	Service factor	:	1.00
Breakdown torque	:	340 %	Temperature rise	:	80 K
Rated speed	:	3580 rpm	Design	:	N
Locked rotor time 100%	:	34 s (hot) 61 s (cold)			
Load inertia (J=GD²/4)	:	1.96 kgm²			

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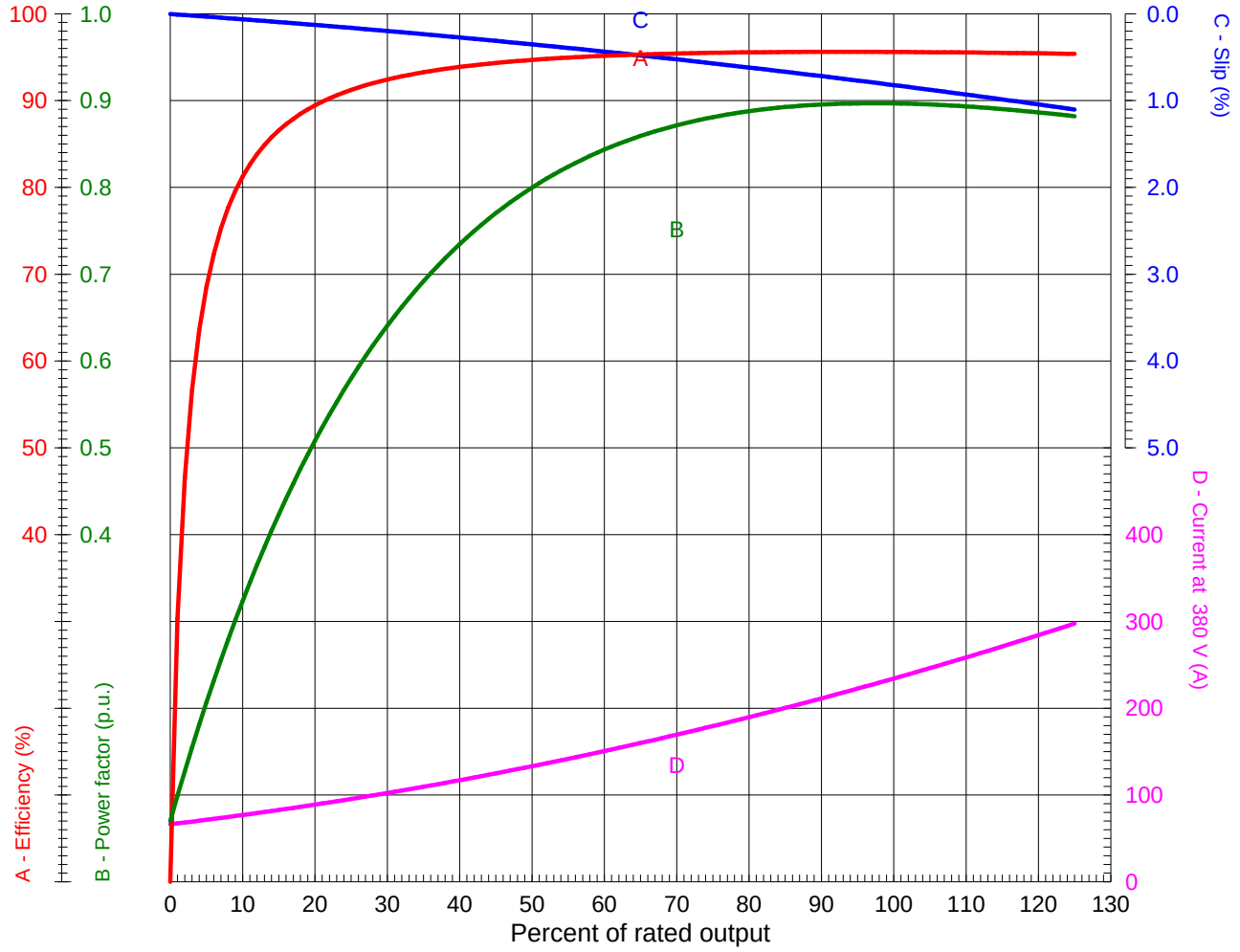
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 380/660 V 50 Hz 2P 315S/M

Rated current	:	233/134 A	
LRC (p.u.)	:	6.9	
Rated torque	:	424 Nm	
Locked rotor torque	:	180 %	
Breakdown torque	:	280 %	
Rated speed	:	2975 rpm	
Moment of inertia (J)	:	1.96 kgm²	
Duty cycle	:	S1	
Insulation class	:	F	
Service factor	:	1.00	
Temperature rise	:	80 K	
Design	:	N	

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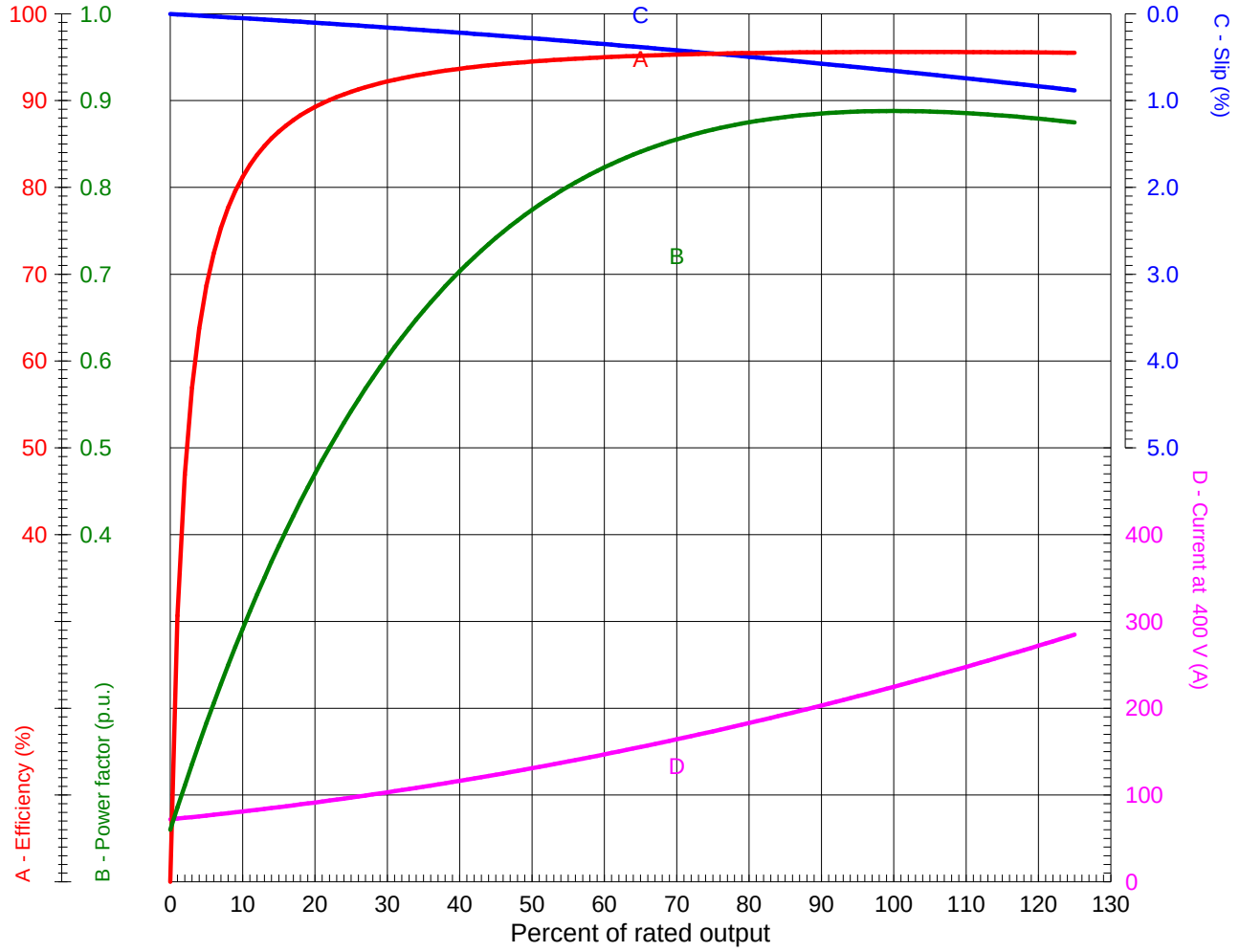
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 400/690 V 50 Hz 2P 315S/M

Rated current	:	224/130 A	
LRC (p.u.)	:	7.6	
Rated torque	:	423 Nm	
Locked rotor torque	:	210 %	
Breakdown torque	:	310 %	
Rated speed	:	2980 rpm	
Moment of inertia (J)	:	1.96 kgm²	
Duty cycle	:	S1	
Insulation class	:	F	
Service factor	:	1.00	
Temperature rise	:	80 K	
Design	:	N	

Rev.	Summary of changes	Performed	Checked	Date

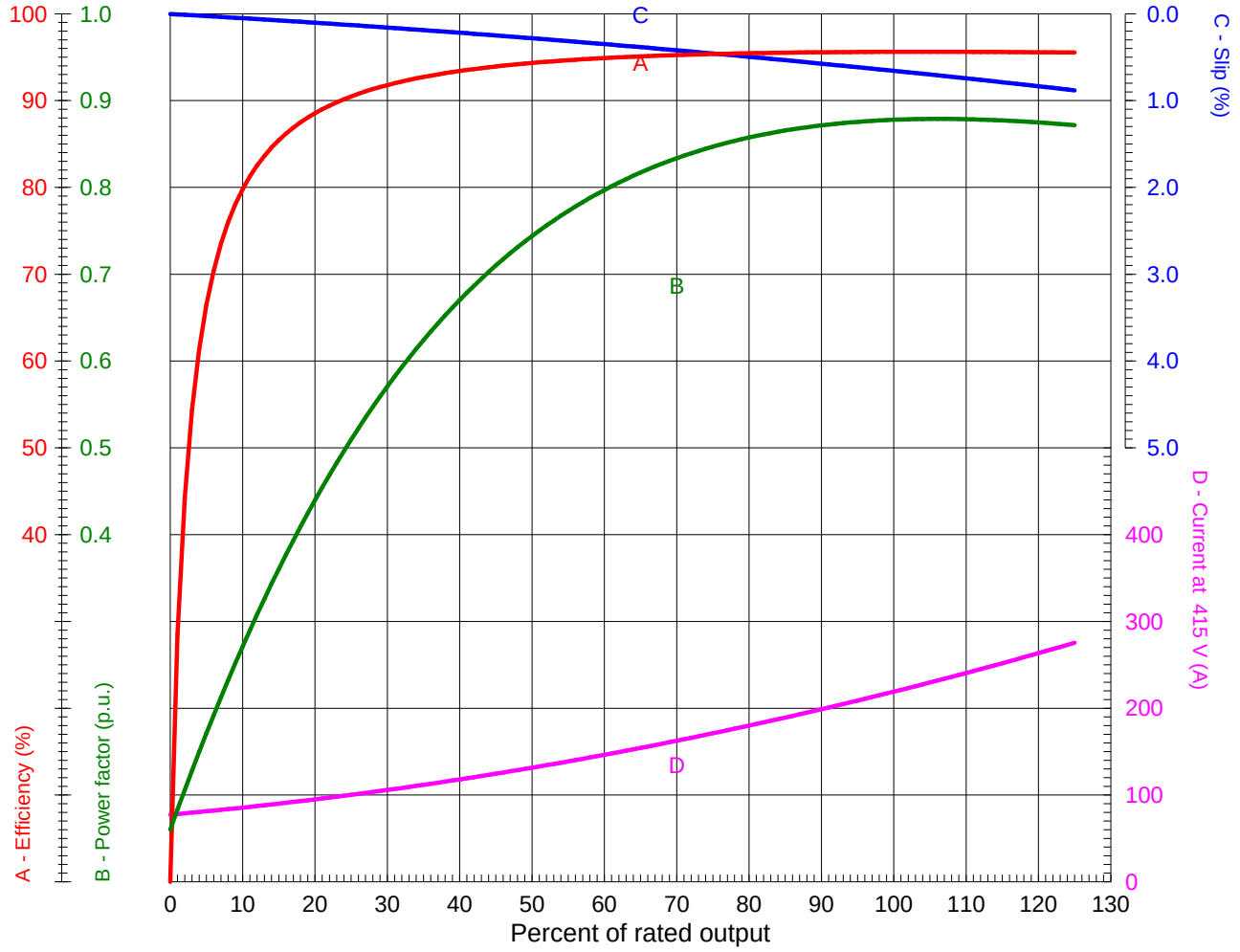
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage



Performance	: 132 kW 415 V 50 Hz 2P 315S/M

Rated current	: 218 A	Moment of inertia (J)	: 1.96 kgm²
LRC (p.u.)	: 8.1	Duty cycle	: S1
Rated torque	: 423 Nm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2980 rpm	Design	: N

Rev.	Summary of changes	Performed	Checked	Date

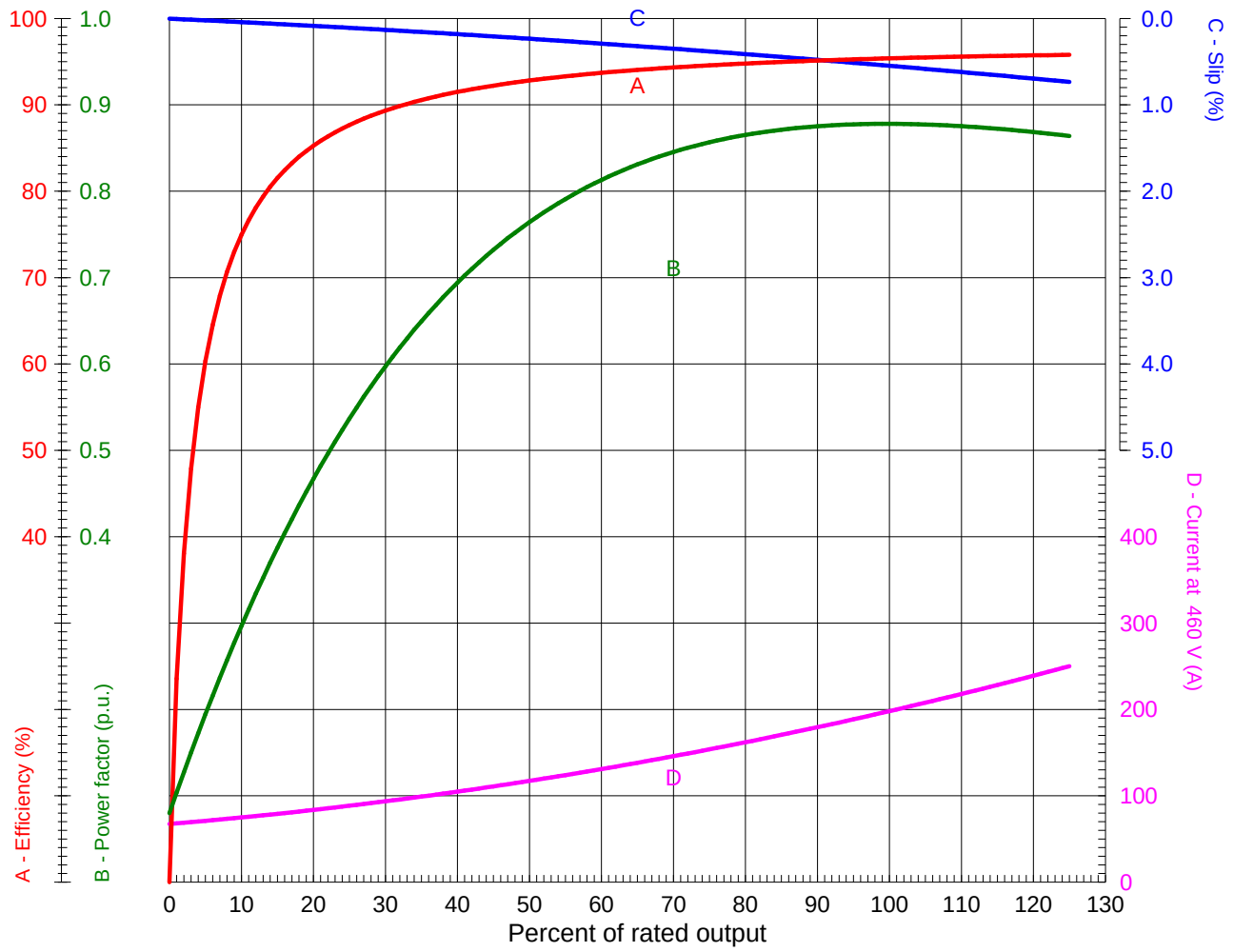
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage



Performance	: 132 kW 460 V 60 Hz 2P 315S/M

Rated current	: 197 A	Moment of inertia (J)	: 1.96 kgm²
LRC (p.u.)	: 8.5 Code J	Duty cycle	: S1
Rated torque	: 352 Nm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 3580 rpm	Design	: N

Rev.	Summary of changes	Performed	Checked	Date

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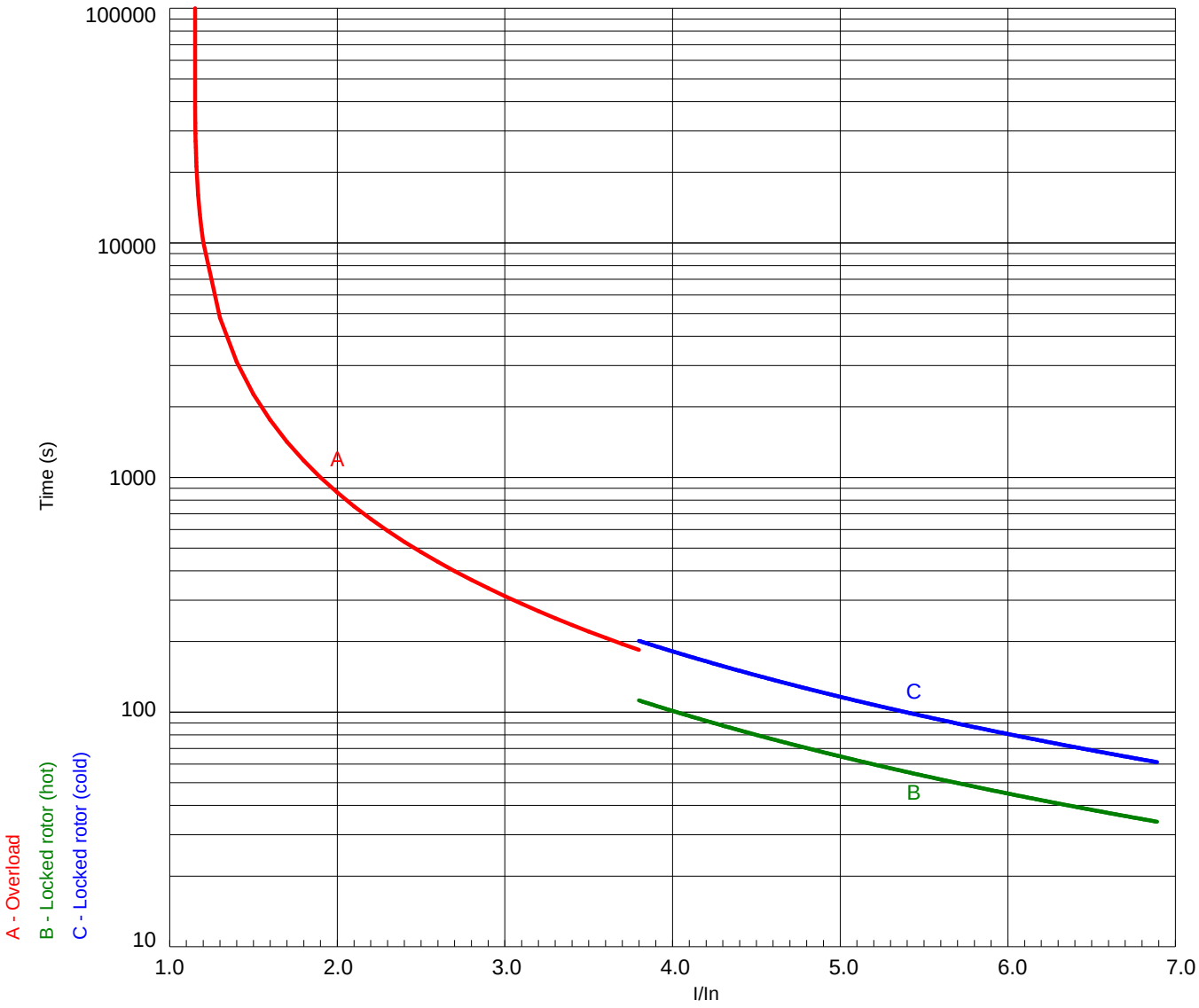
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 132 kW 380/660 V 50 Hz 2P 315S/M

Rated current	: 233/134 A	Moment of inertia (J)	: 1.96 kgm²
LRC (p.u.)	: 6.9	Duty cycle	: S1
Rated torque	: 424 Nm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2975 rpm	Design	: N

Heating constant : 41.8 min
Cooling constant : 125.3 min

Rev.	Summary of changes	Performed	Checked	Date

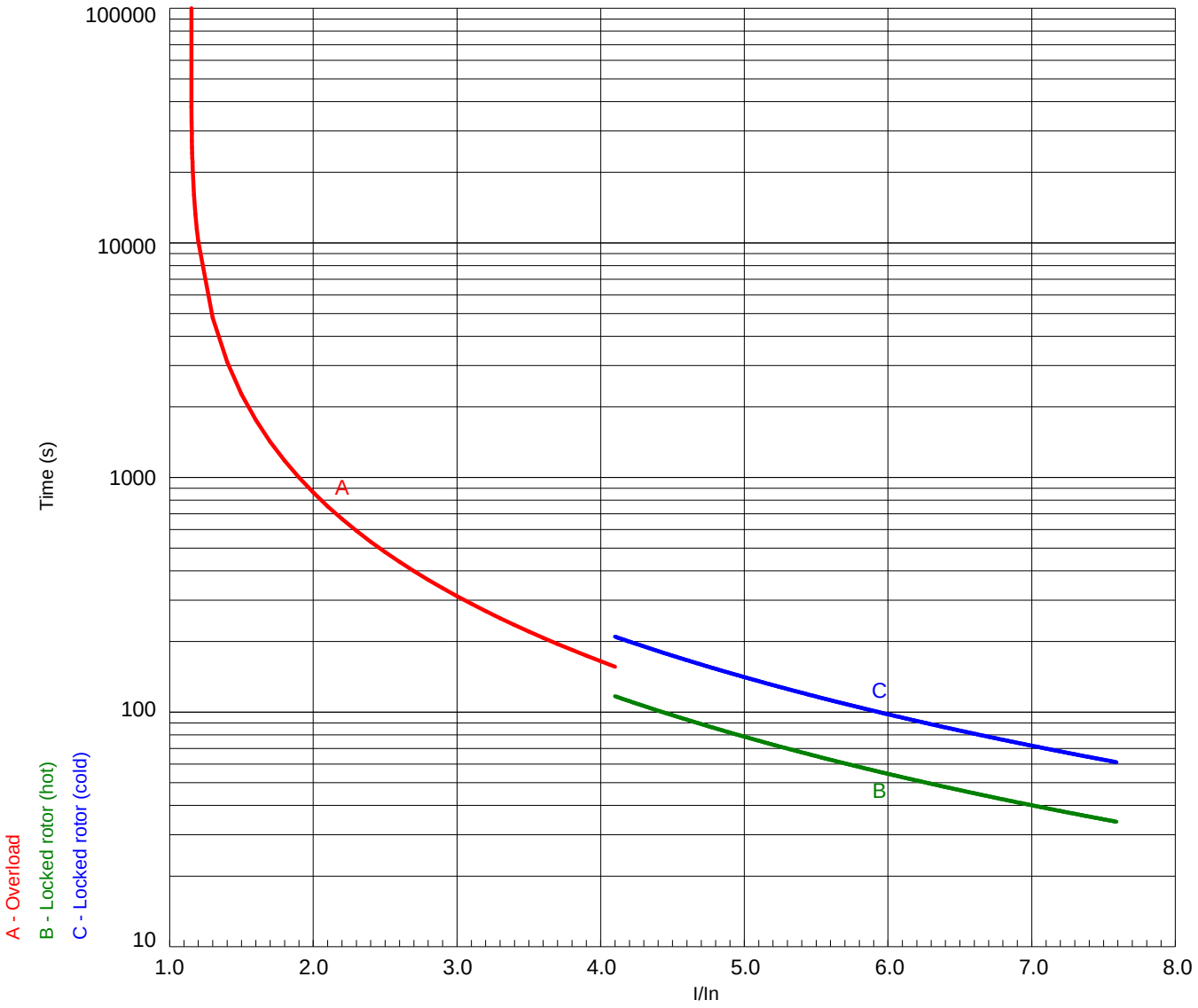
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 400/690 V 50 Hz 2P 315S/M			
Rated current	:	224/130 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	7.6	Duty cycle	:	S1
Rated torque	:	423 Nm	Insulation class	:	F
Locked rotor torque	:	210 %	Service factor	:	1.00
Breakdown torque	:	310 %	Temperature rise	:	80 K
Rated speed	:	2980 rpm	Design	:	N
Heating constant	:	41.8 min			
Cooling constant	:	125.3 min			

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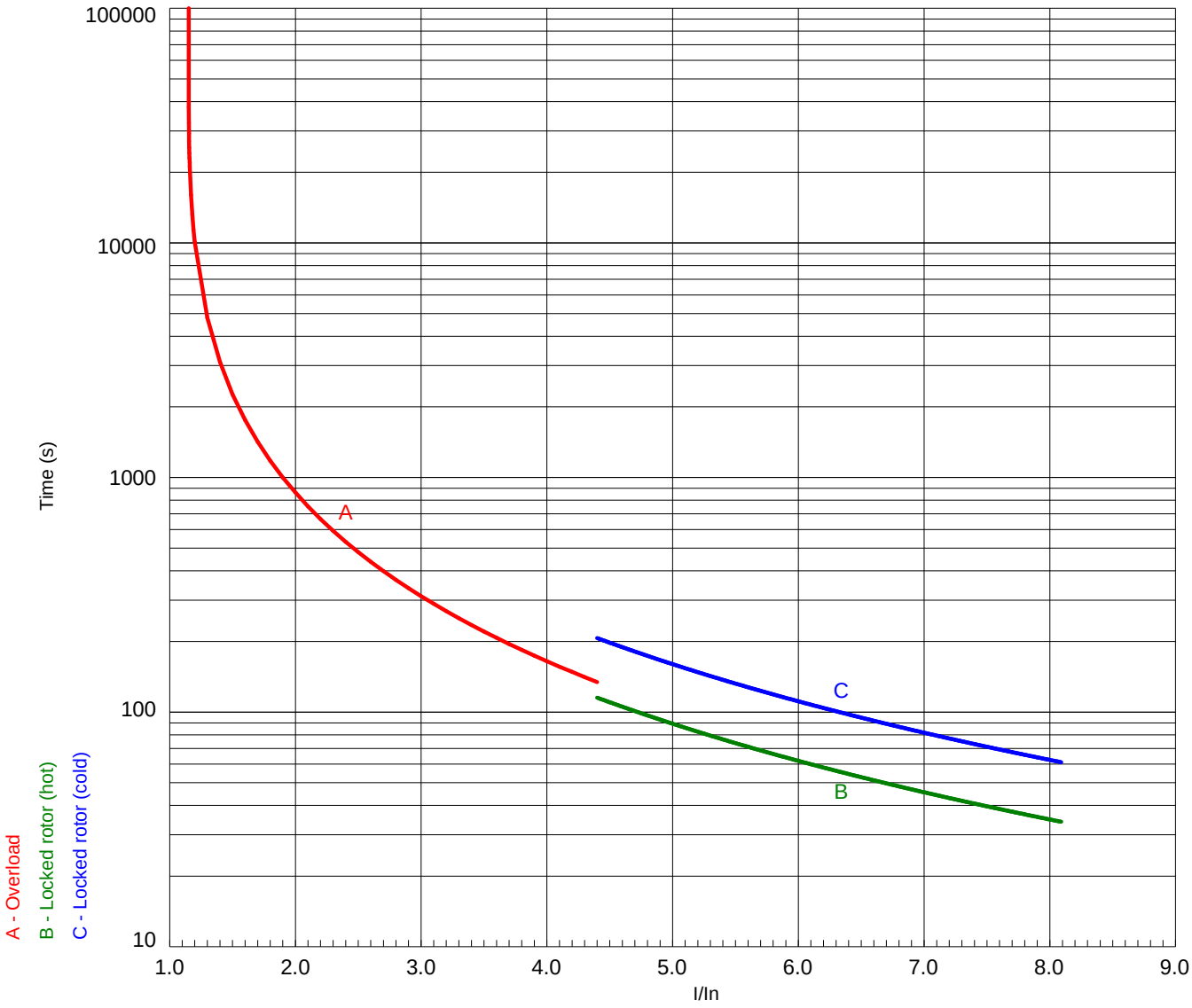
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 132 kW 415 V 50 Hz 2P 315S/M

Rated current	: 218 A	Moment of inertia (J)	: 1.96 kgm²
LRC (p.u.)	: 8.1	Duty cycle	: S1
Rated torque	: 423 Nm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2980 rpm	Design	: N

Heating constant : 41.8 min
Cooling constant : 125.3 min

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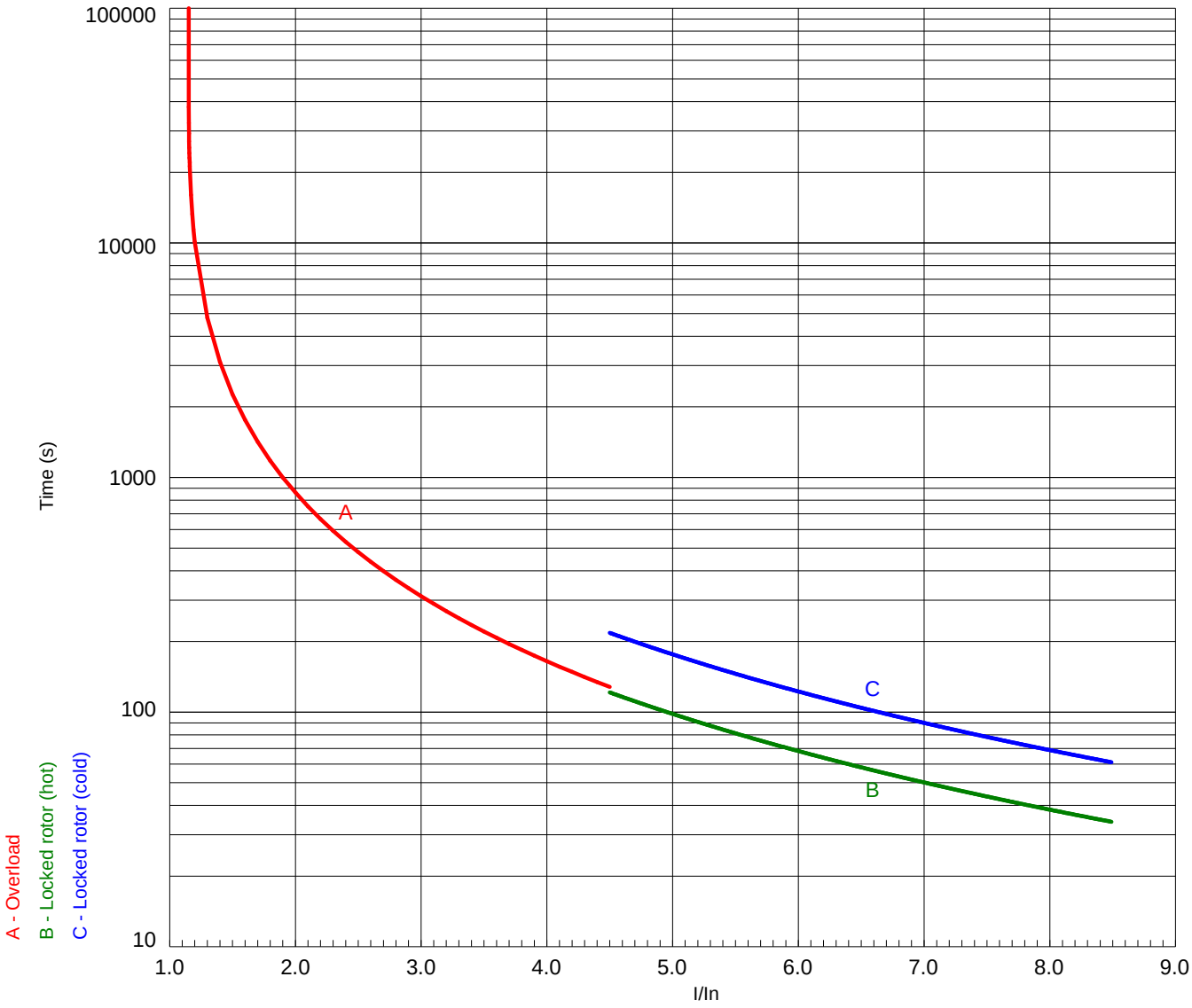
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 132 kW 460 V 60 Hz 2P 315S/M

Rated current	: 197 A	Moment of inertia (J)	: 1.96 kgm²
LRC (p.u.)	: 8.5 Code J	Duty cycle	: S1
Rated torque	: 352 Nm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 3580 rpm	Design	: N

Heating constant : 41.8 min
Cooling constant : 125.3 min

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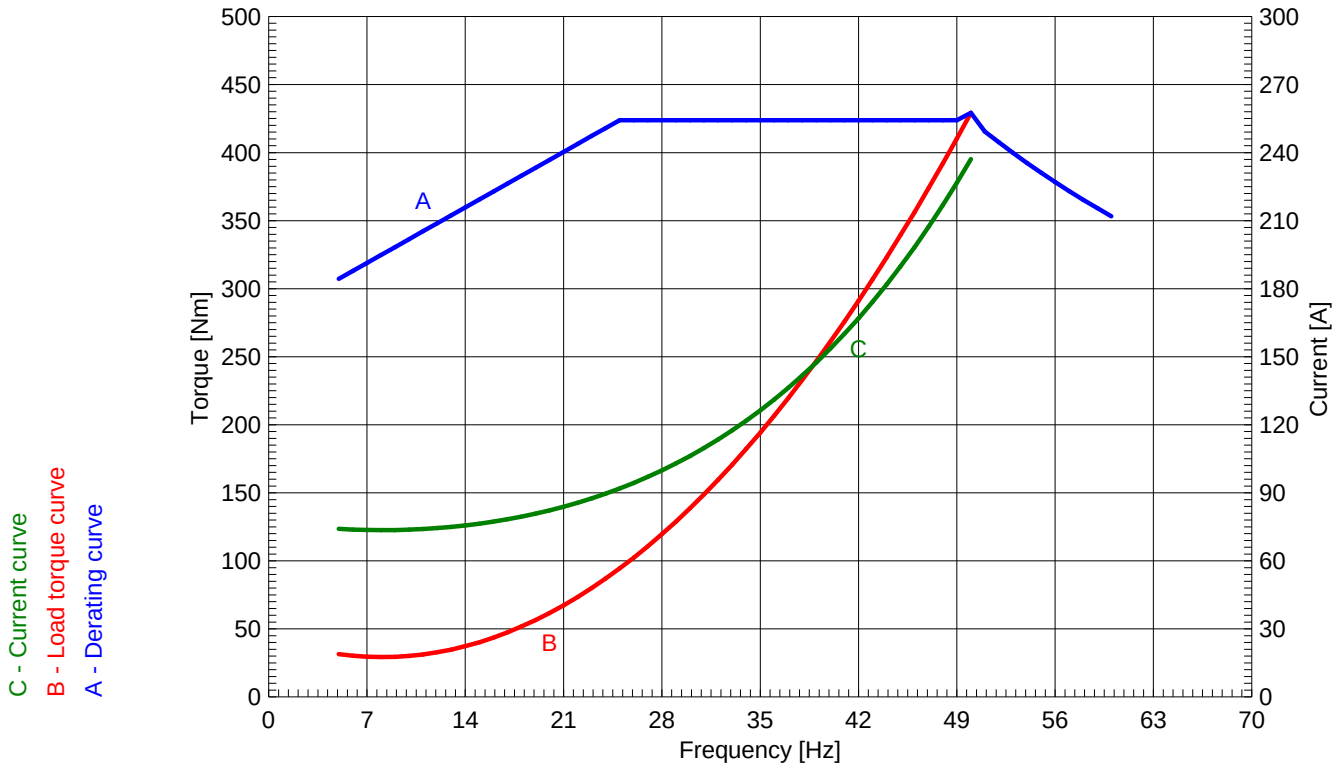
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INVERTER CURVE WITH LOAD TORQUE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 380/660 V 50 Hz 2P 315S/M			
Rated current	:	233/134 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	6.9	Duty cycle	:	S1
Rated torque	:	424 Nm	Insulation class	:	F
Locked rotor torque	:	180 %	Service factor	:	1.00
Breakdown torque	:	280 %	Temperature rise	:	80 K
Rated speed	:	2975 rpm	Design	:	N
Maximum absorbed power	:	132 kW	Maximum torque	:	424 Nm
Minimum frequency	:	5 Hz	Minimum speed	:	300 rpm
Maximum frequency	:	50 Hz	Maximum speed	:	3000 rpm

Rev.	Summary of changes	Performed	Checked	Date

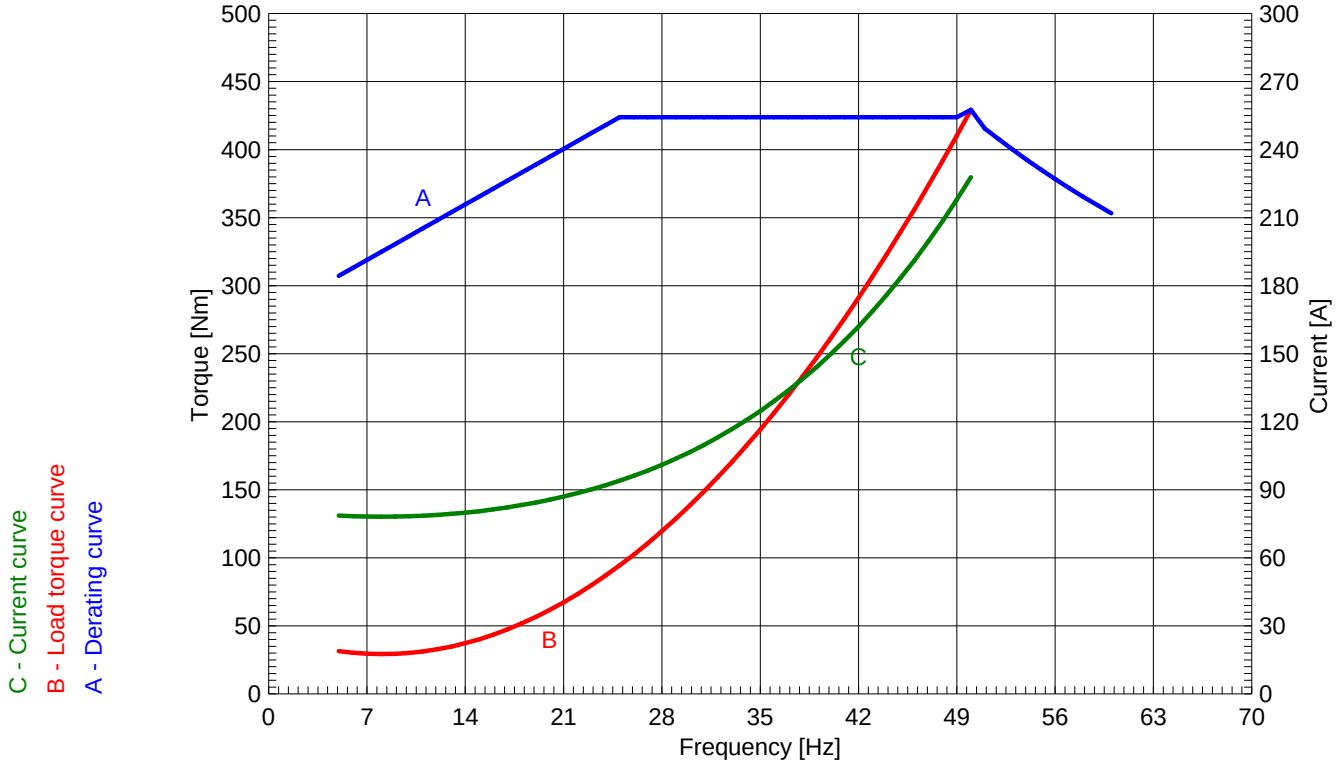
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INVERTER CURVE WITH LOAD TORQUE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 400/690 V 50 Hz 2P 315S/M			
Rated current	:	224/130 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	7.6	Duty cycle	:	S1
Rated torque	:	423 Nm	Insulation class	:	F
Locked rotor torque	:	210 %	Service factor	:	1.00
Breakdown torque	:	310 %	Temperature rise	:	80 K
Rated speed	:	2980 rpm	Design	:	N
Maximum absorbed power	:	132 kW	Maximum torque	:	424 Nm
Minimum frequency	:	5 Hz	Minimum speed	:	300 rpm
Maximum frequency	:	50 Hz	Maximum speed	:	3000 rpm

Rev.	Summary of changes	Performed	Checked	Date

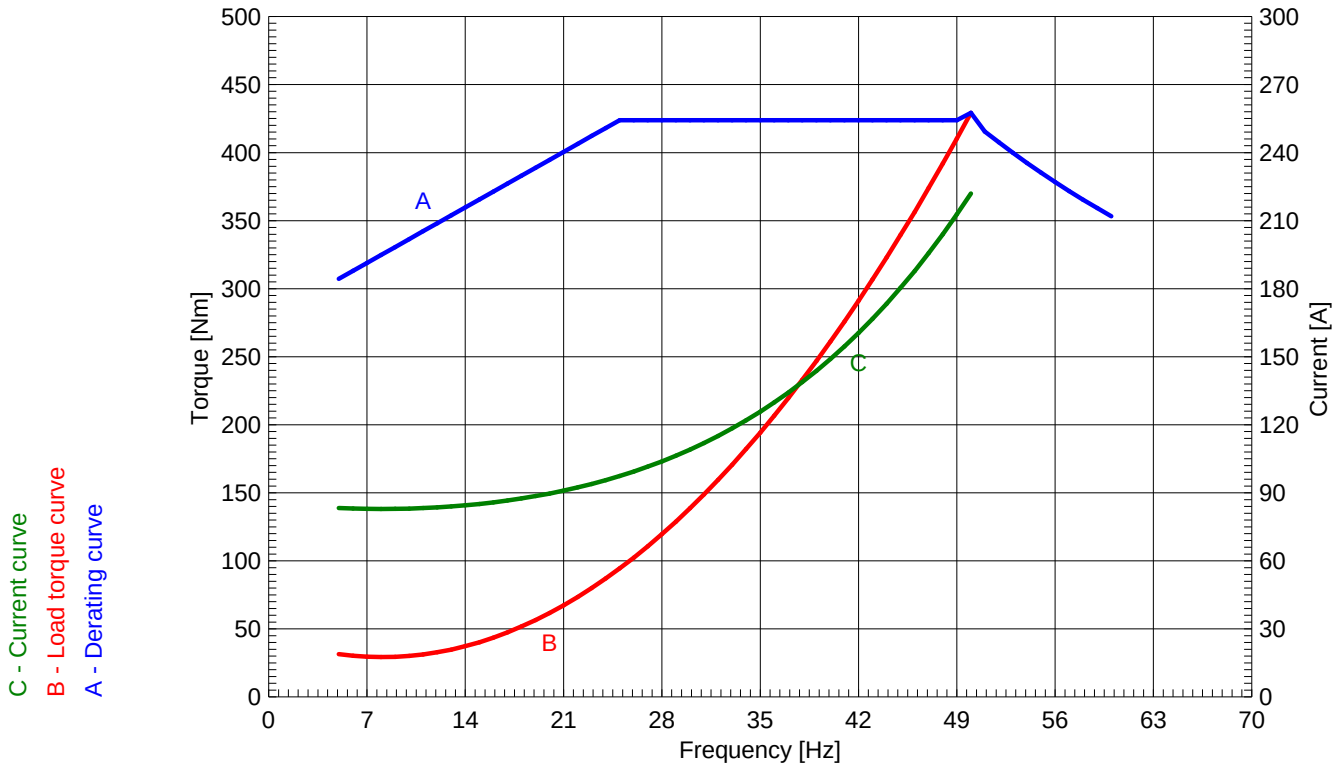
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INVERTER CURVE WITH LOAD TORQUE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 415 V 50 Hz 2P 315S/M			
Rated current	:	218 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	8.1	Duty cycle	:	S1
Rated torque	:	423 Nm	Insulation class	:	F
Locked rotor torque	:	220 %	Service factor	:	1.00
Breakdown torque	:	340 %	Temperature rise	:	80 K
Rated speed	:	2980 rpm	Design	:	N
Maximum absorbed power	:	132 kW	Maximum torque	:	424 Nm
Minimum frequency	:	5 Hz	Minimum speed	:	300 rpm
Maximum frequency	:	50 Hz	Maximum speed	:	3000 rpm

Rev.	Summary of changes	Performed	Checked	Date

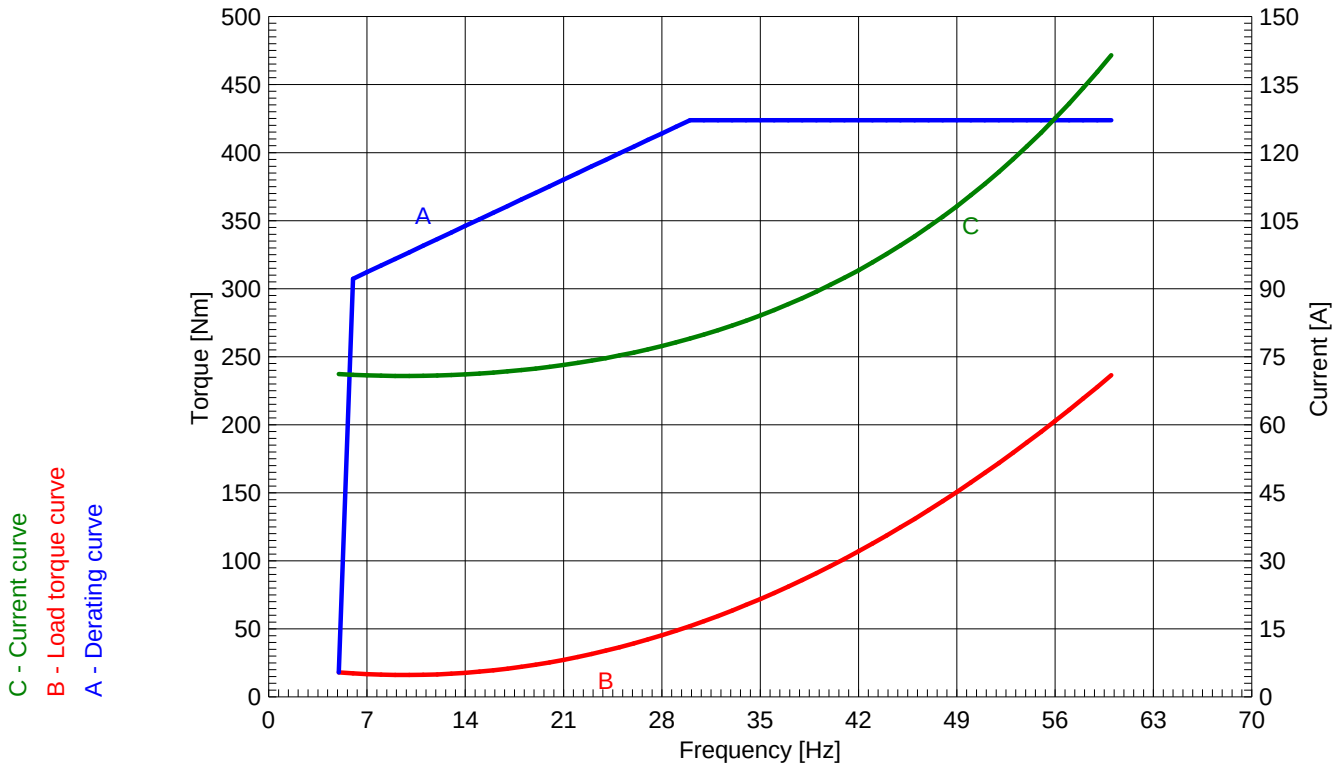
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INVERTER CURVE WITH LOAD TORQUE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 460 V 60 Hz 2P 315S/M			
Rated current	:	197 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	8.5 Code J	Duty cycle	:	S1
Rated torque	:	352 Nm	Insulation class	:	F
Locked rotor torque	:	230 %	Service factor	:	1.00
Breakdown torque	:	340 %	Temperature rise	:	80 K
Rated speed	:	3580 rpm	Design	:	N
Maximum absorbed power	:	132 kW	Maximum torque	:	424 Nm
Minimum frequency	:	5 Hz	Minimum speed	:	300 rpm
Maximum frequency	:	60 Hz	Maximum speed	:	3600 rpm

Rev.	Summary of changes	Performed	Checked	Date

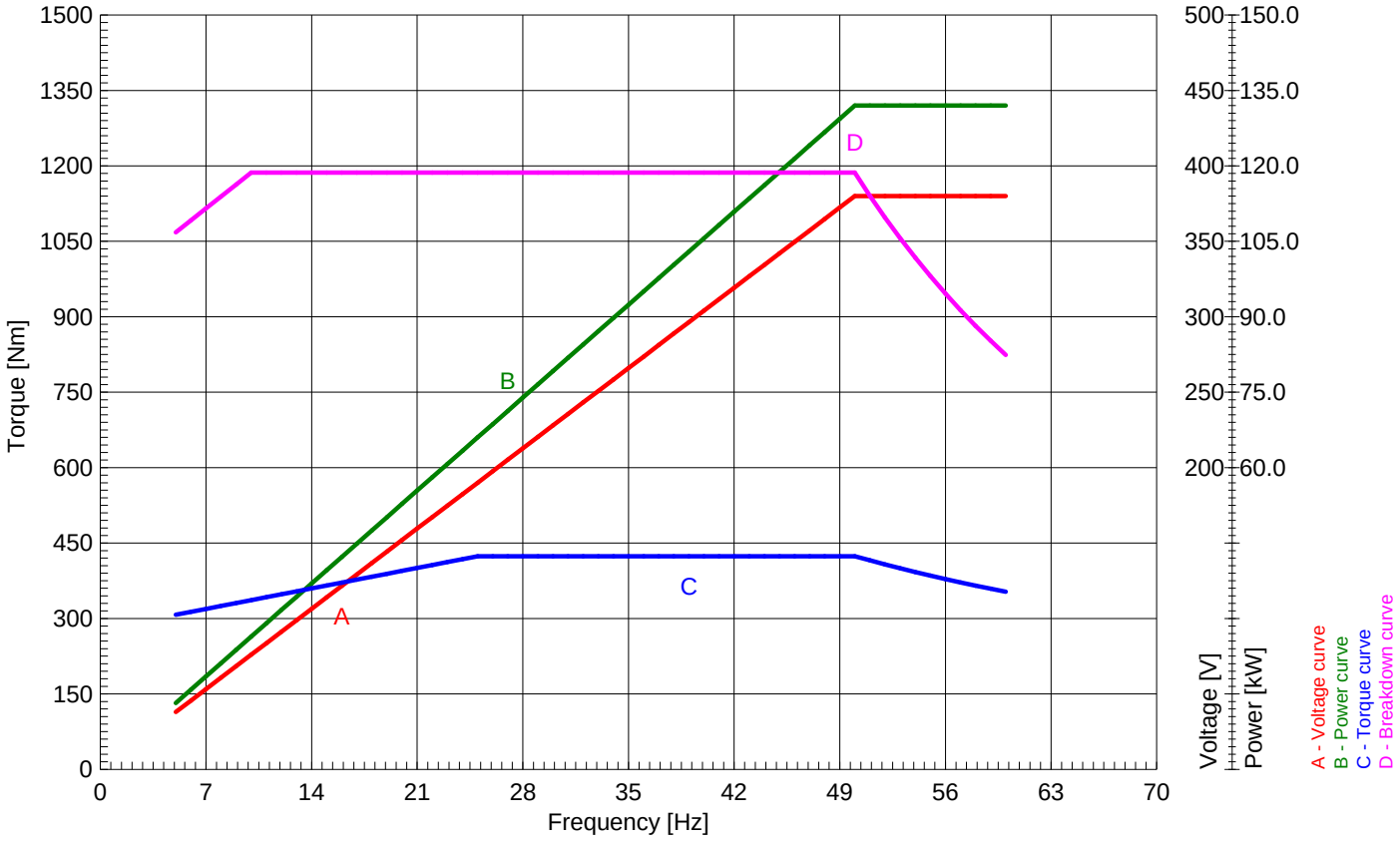
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 380/660 V 50 Hz 2P 315S/M			
Rated current	:	233/134 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	6.9	Duty cycle	:	S1
Rated torque	:	424 Nm	Insulation class	:	F
Locked rotor torque	:	180 %	Service factor	:	1.00
Breakdown torque	:	280 %	Temperature rise	:	80 K
Rated speed	:	2975 rpm	Design	:	N
Operation limits with inverter 5 Hz up to 50 Hz (Variable torque): 424 Nm			Maximum peak voltage phase-to-phase dV/dt Rise time	<= <= >=	1600 V 5200 V/µs 0,1 µs

Rev.	Summary of changes	Performed	Checked	Date

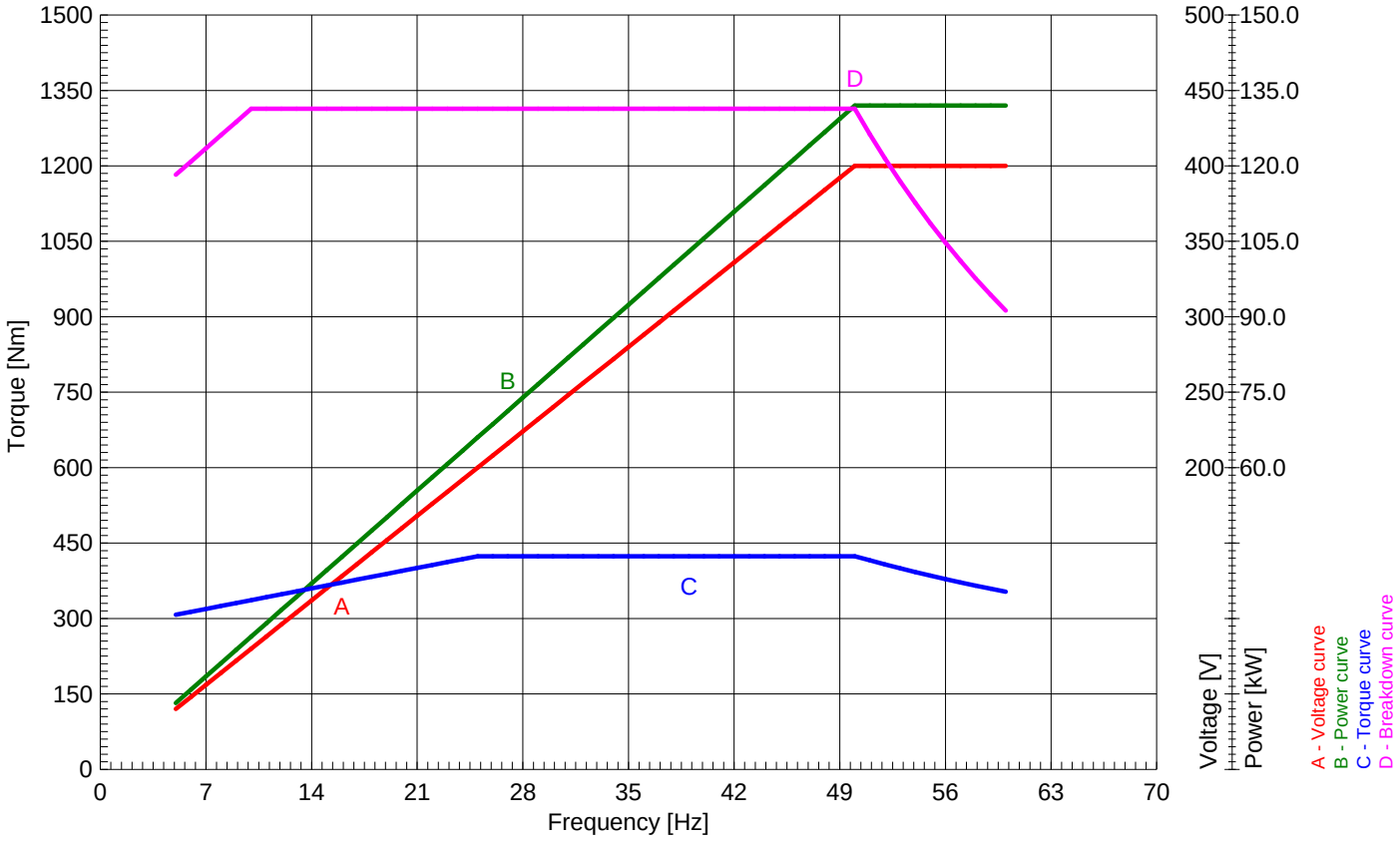
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	132 kW 400/690 V 50 Hz 2P 315S/M			
Rated current	:	224/130 A	Moment of inertia (J)	:	1.96 kgm²
LRC (p.u.)	:	7.6	Duty cycle	:	S1
Rated torque	:	423 Nm	Insulation class	:	F
Locked rotor torque	:	210 %	Service factor	:	1.00
Breakdown torque	:	310 %	Temperature rise	:	80 K
Rated speed	:	2980 rpm	Design	:	N
Operation limits with inverter 5 Hz up to 50 Hz (Variable torque): 424 Nm			Maximum peak voltage phase-to-phase dV/dt Rise time	<= <= >=	1600 V 5200 V/µs 0,1 µs

Rev.	Summary of changes	Performed	Checked	Date

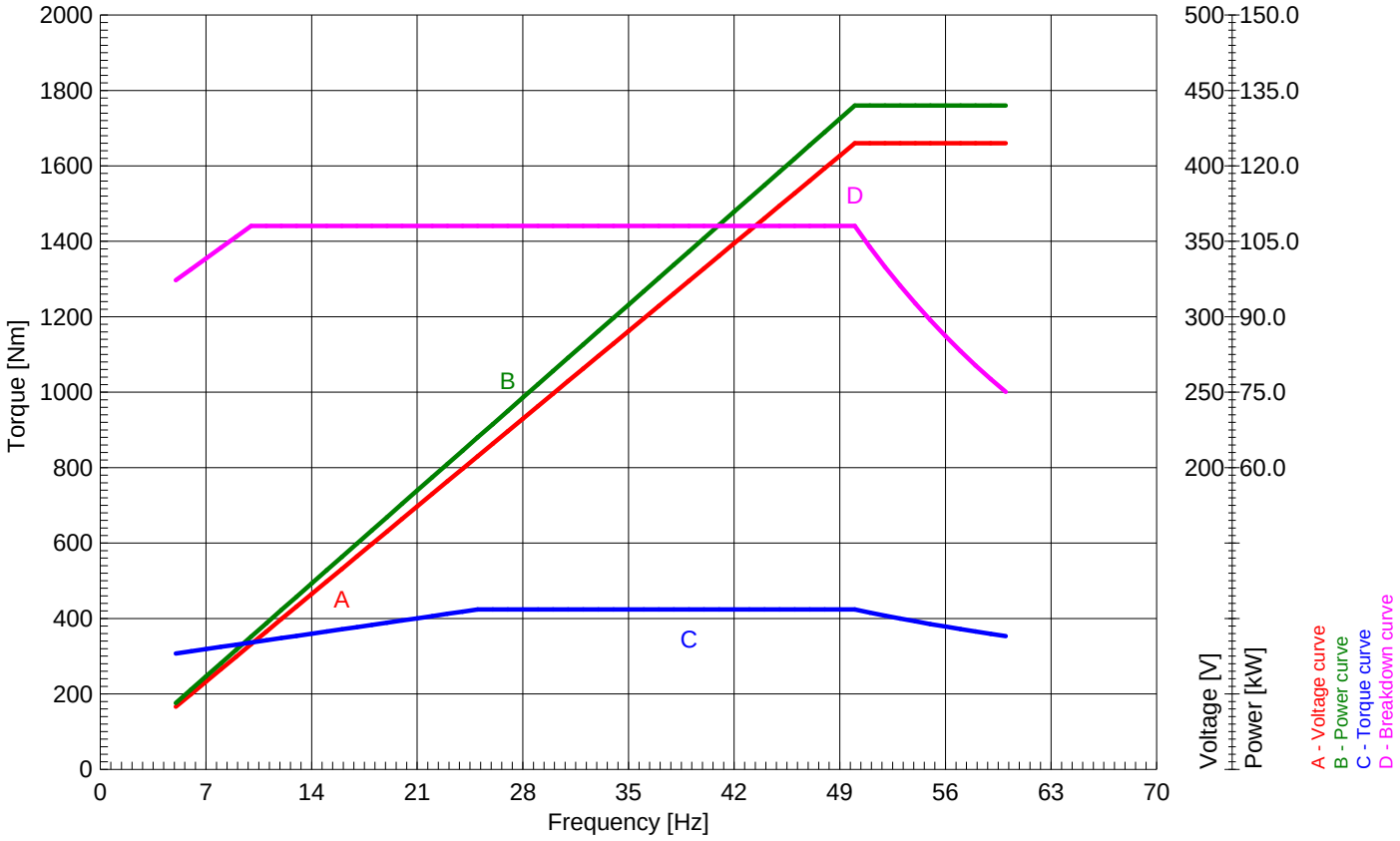
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage



Performance	: 132 kW 415 V 50 Hz 2P 315S/M

Rated current	: 218 A	Moment of inertia (J)	: 1.96 kgm²
LRC (p.u.)	: 8.1	Duty cycle	: S1
Rated torque	: 423 Nm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2980 rpm	Design	: N

Operation limits with inverter 5 Hz up to 50 Hz (Variable torque): 424 Nm	Maximum peak voltage phase-to-phase <= 1600 V dV/dt <= 5200 V/µs Rise time >= 0,1 µs

Rev.	Summary of changes	Performed	Checked	Date

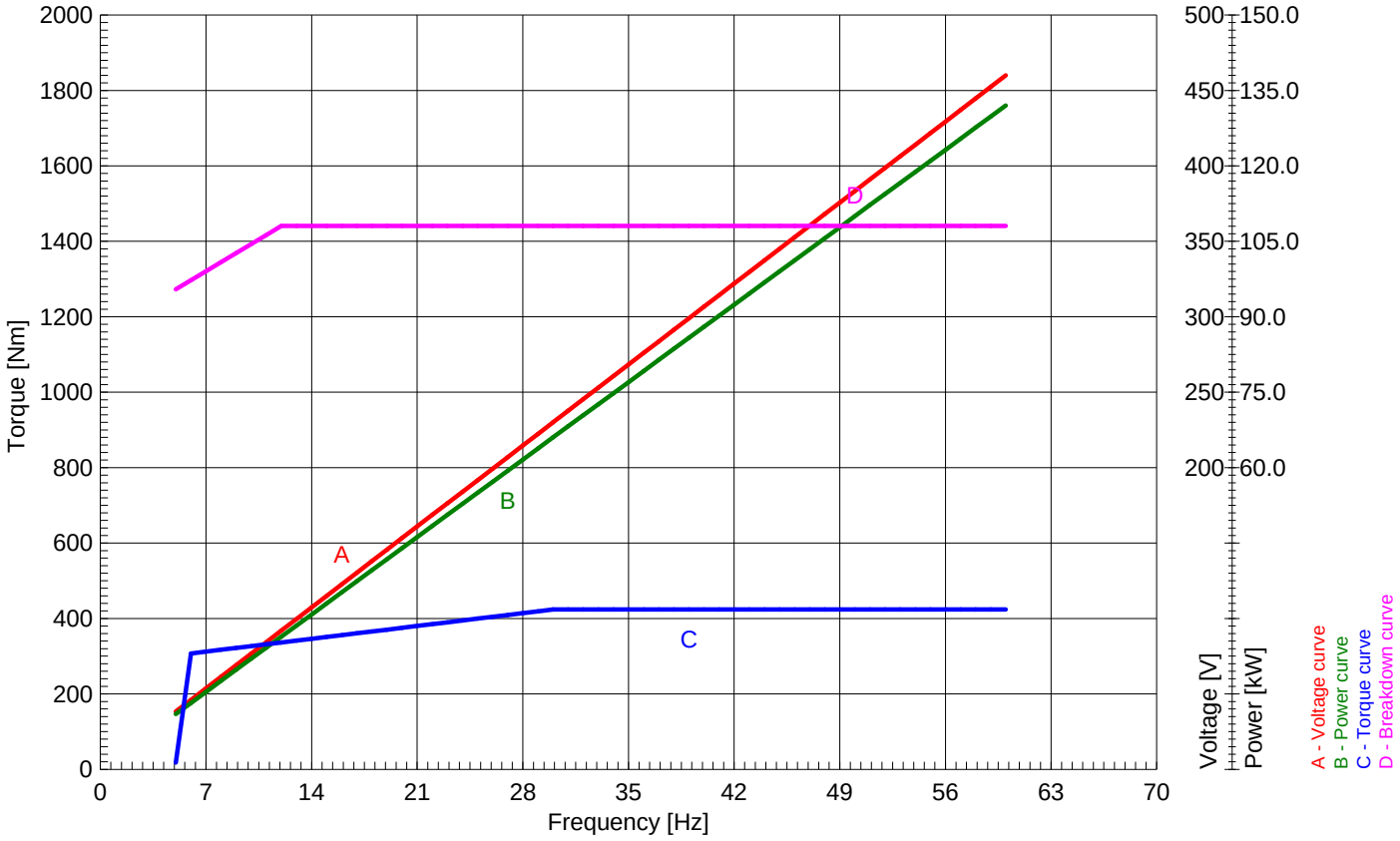
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage



Performance	: 132 kW 460 V 60 Hz 2P 315S/M

Rated current	: 197 A	Moment of inertia (J)	: 1.96 kgm²
LRC (p.u.)	: 8.5 Code J	Duty cycle	: S1
Rated torque	: 352 Nm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 3580 rpm	Design	: N

Operation limits with inverter 5 Hz up to 50 Hz (Variable torque): 424 Nm	Maximum peak voltage phase-to-phase <= 1600 V dV/dt <= 5200 V/µs Rise time >= 0,1 µs

Rev.	Summary of changes	Performed	Checked	Date

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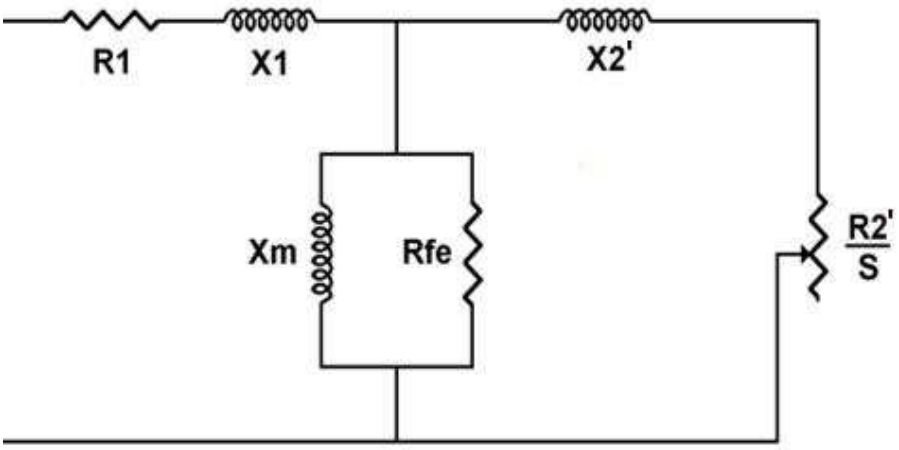
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EQUIVALENT CIRCUIT

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Rated			
R1	1.6744 ohms	**X1**	3.5490 ohms
R2'	0.9857 ohms	**X2'**	4.2803 ohms
Rfe	3036.2900 ohms	**Xm**	111.9098 ohms

All parameters reflected to stator side.
Per phase values, for T connection.
Resistances at 20.0 ℃, reactances at rated voltage and frequency.

Performance : 132 kW 380 V 50 Hz 4P 315S/M

R1	= Stator resistance	T"do	= Open circuit AC time constant
R2'	= Rotor resistance	T"d	= Short circuit AC time constant
Rfe	= Core loss resistance	Ta	= Short circuit DC time constant
X1	= Stator leakage reactance	X/R	= X/R Ratio
X2'	= Rotor leakage reactance	RS	= Supplementary losses resistance
Xm	= Magnetizing reactance	X"d = Xs	= Subtransient reactance
Zbase	= Base impedance	X2(-)	= Negative sequence reactance

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