DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage

Frame	: 132M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3T
Duty cycle	: S1	Direct of rotation[1]	: Both
Ambient temperature	: -20 ℃ to +40 ℃	Starting method	: VFD
Altitude	: 1000 m.a.s.l	Approx. weight[3]	: 74.0 kg
Degree of protection	: IP55	Moment of inertia (J)	: 0.0563 kgm²
Design	: N		

Output		7.5 kW	7.5 kW	7.5 kW	7.5 kW
Poles		4	4	4	4
Frequency		50 Hz	50 Hz	50 Hz	60 Hz
Rated voltage		380/660 V	400/690 V	415 V	460 V
Rated current		14.7/8.46 A	14.2/8.23 A	13.9 A	12.4 A
L. R. Amperes		122/70.2 A	118/68.3 A	115 A	118 A
LRC (p.u.)		8.3	8.3	8.3	9.5 x Code L
No load current		6.53/3.76 A	6.82/3.95 A	8.07 A	6.68 A
Rated speed		1460 rpm	1460 rpm	1465 rpm	1770 rpm
Slip		2.67 %	2.67 %	2.33 %	1.67 %
Rated torque		49.1 Nm	49.1 Nm	48.9 Nm	40.5 Nm
Locked rotor torque		220 %	240 %	260 %	250 %
Breakdown torque		310 %	350 %	380 %	400 %
Service factor		1.00	1.00	1.00	1.00
Noise level[2]		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	58.0 dB(A)
Locked rotor time		7 s (hot) 13 s (cold)	7 s (hot) 13 s (cold)	7 s (hot) 13 s (cold)	7 s (hot) 13 s (cold)
Efficiency (%)	50%	90.0	90.5	89.2	90.1
	75%	90.2	90.8	90.3	91.2
	100%	90.4	90.6	90.4	91.7
Power factor	Start	0.55	0.57	0.57	0.55
	50%	0.66	0.63	0.60	0.65
	75%	0.79	0.76	0.73	0.77
	100%	0.86	0.84	0.83	0.83

	Drive end	Non drive end
Bearing type	6308-ZZ	6207-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads

Maximum traction : 3079 N

Maximum compression : 3805 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.

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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): 49.1 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		

Rev.	Summary of changes	Performed	Checked	Date

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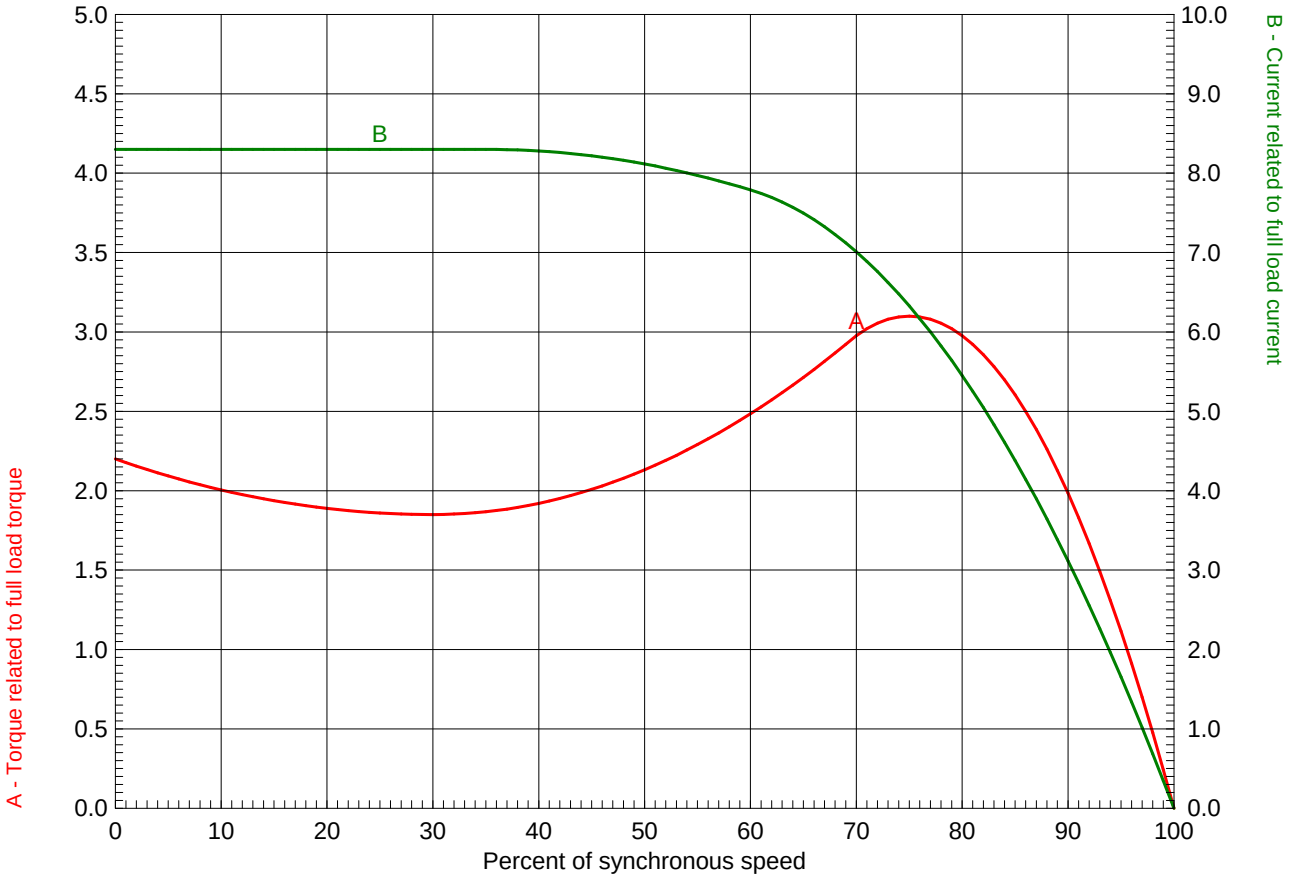
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TORQUE AND CURRENT X SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 7.5 kW 380/660 V 50 Hz 4P 132M

Rated current	: 14.7/8.46 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 49.1 Nm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

Locked rotor time 100% : 7 s (hot) 13 s (cold)
Load inertia (J=GD²/4) : 0.0563 kgm²

Rev.	Summary of changes	Performed	Checked	Date

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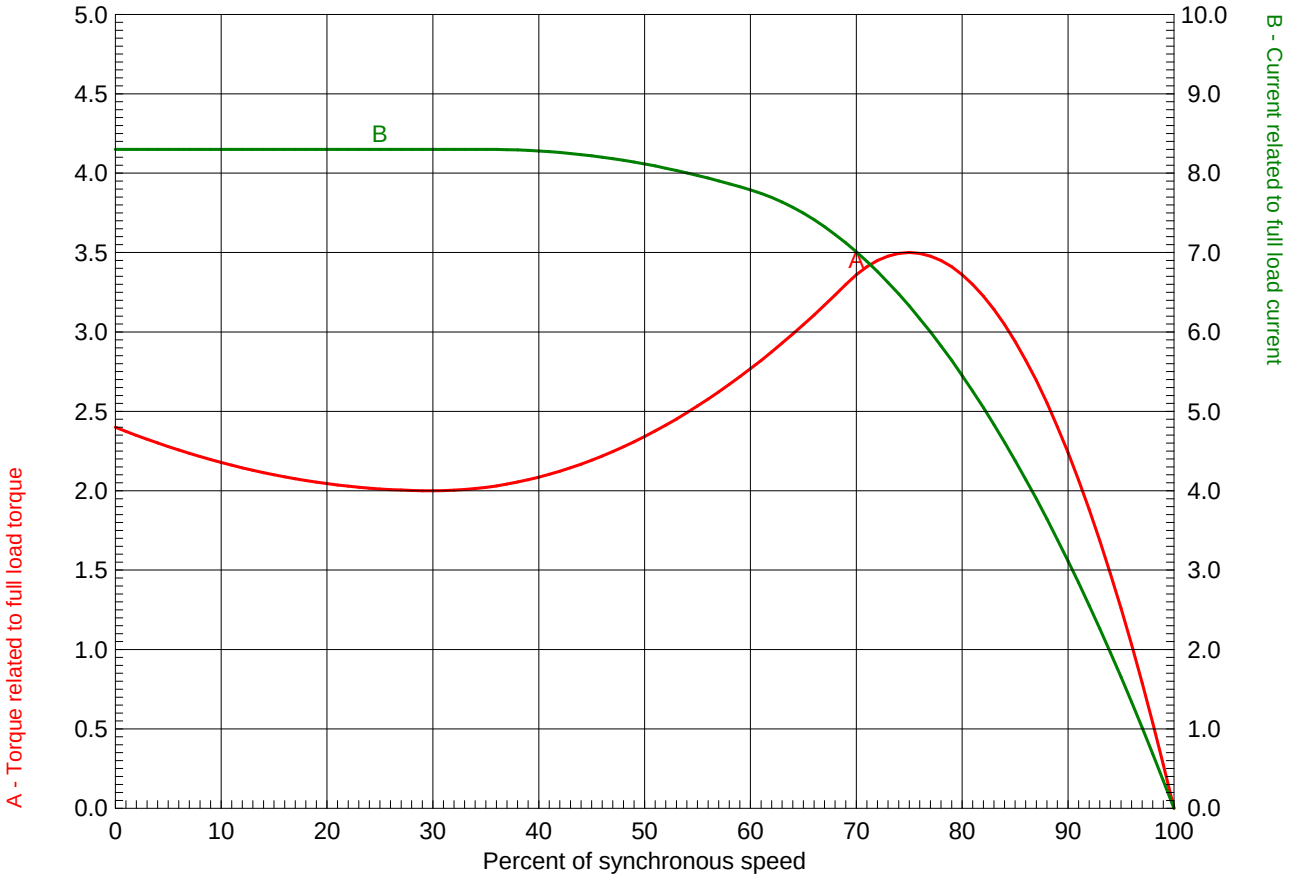
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TORQUE AND CURRENT X SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 7.5 kW 400/690 V 50 Hz 4P 132M

Rated current	: 14.2/8.23 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 49.1 Nm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

Locked rotor time 100% : 7 s (hot) 13 s (cold)
Load inertia (J=GD²/4) : 0.0563 kgm²

Rev.	Summary of changes	Performed	Checked	Date

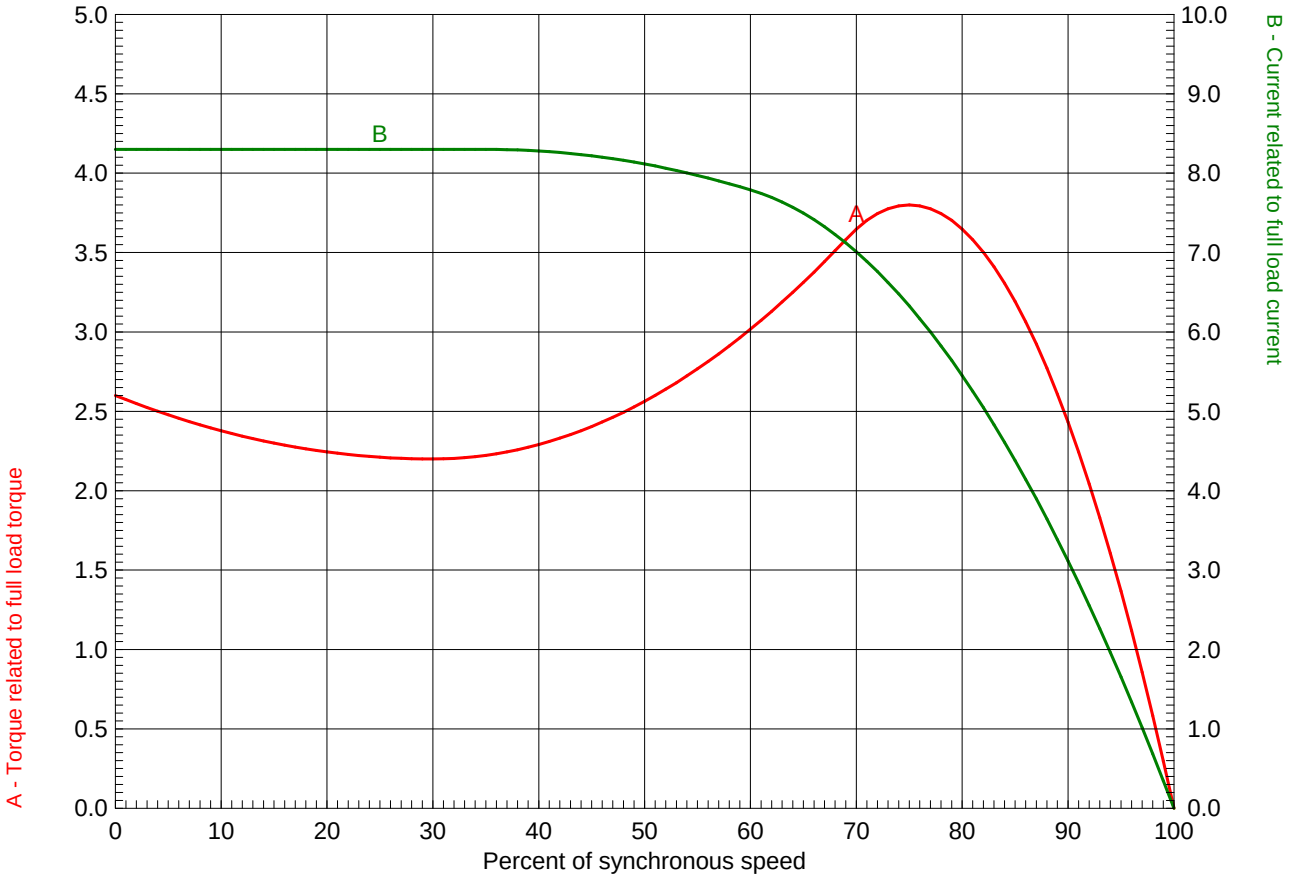
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TORQUE AND CURRENT X SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 415 V 50 Hz 4P 132M			
Rated current	:	13.9 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	8.3	Duty cycle	:	S1
Rated torque	:	48.9 Nm	Insulation class	:	F
Locked rotor torque	:	260 %	Service factor	:	1.00
Breakdown torque	:	380 %	Temperature rise	:	80 K
Rated speed	:	1465 rpm	Design	:	N
Locked rotor time 100%	:	7 s (hot) 13 s (cold)			
Load inertia (J=GD²/4)	:	0.0563 kgm²			

Rev.	Summary of changes	Performed	Checked	Date

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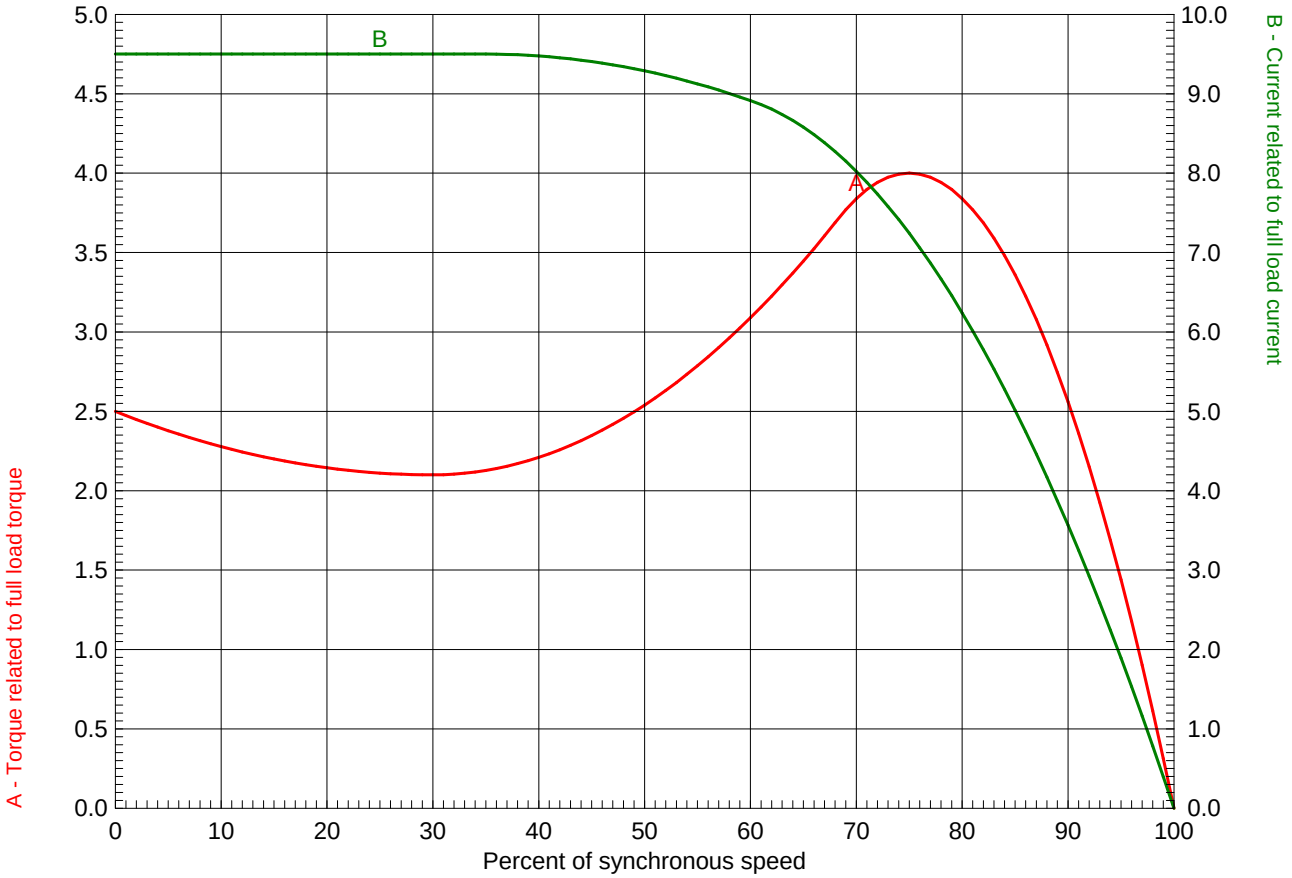
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TORQUE AND CURRENT X SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 7.5 kW 460 V 60 Hz 4P 132M

Rated current	: 12.4 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 9.5 Code L	Duty cycle	: S1
Rated torque	: 40.5 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

Locked rotor time 100% : 7 s (hot) 13 s (cold)
Load inertia (J=GD²/4) : 0.0563 kgm²

Rev.	Summary of changes	Performed	Checked	Date

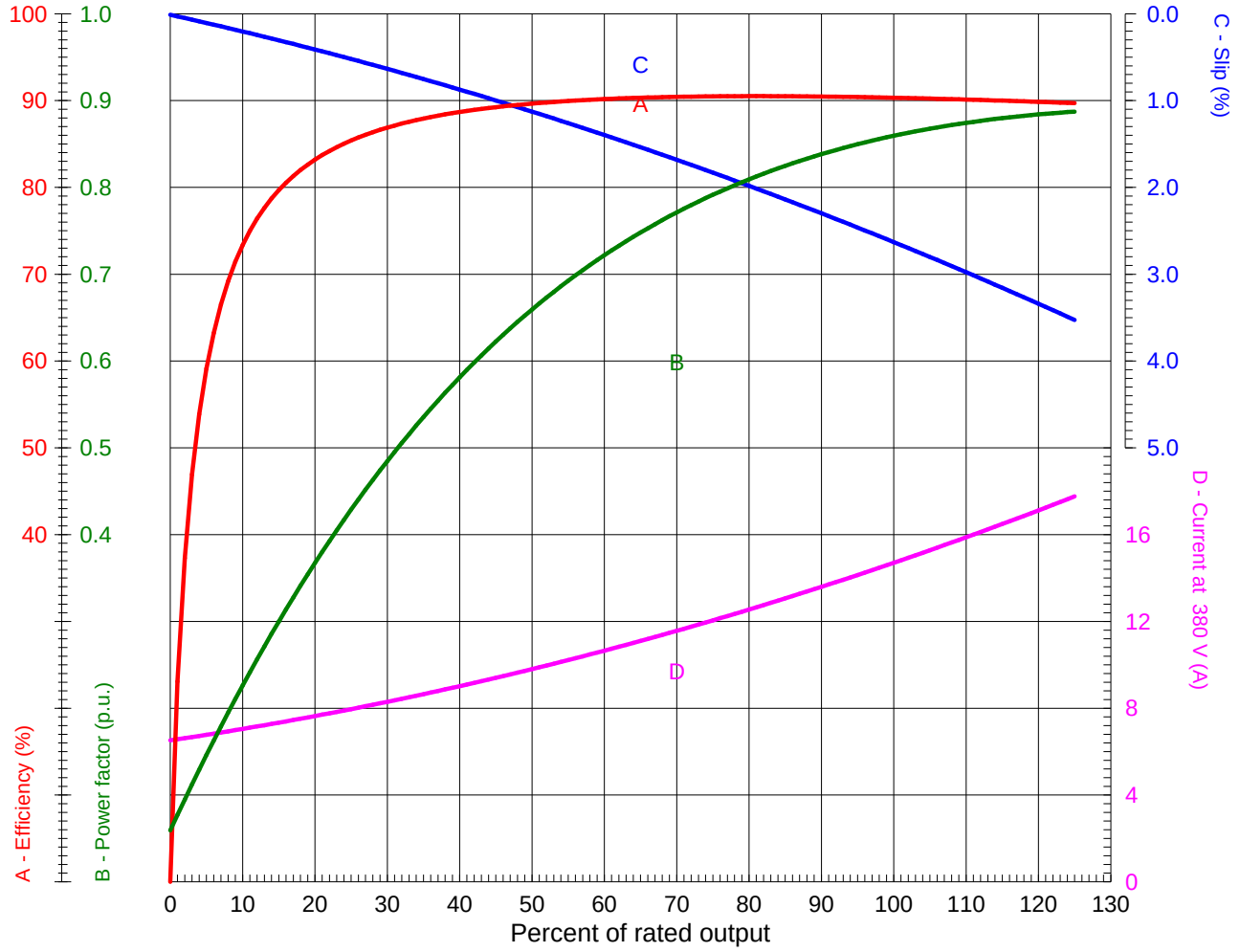
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 380/660 V 50 Hz 4P 132M

Rated current	:	14.7/8.46 A	
LRC (p.u.)	:	8.3	
Rated torque	:	49.1 Nm	
Locked rotor torque	:	220 %	
Breakdown torque	:	310 %	
Rated speed	:	1460 rpm	
Moment of inertia (J)	:	0.0563 kgm²	
Duty cycle	:	S1	
Insulation class	:	F	
Service factor	:	1.00	
Temperature rise	:	80 K	
Design	:	N	

Rev.	Summary of changes	Performed	Checked	Date

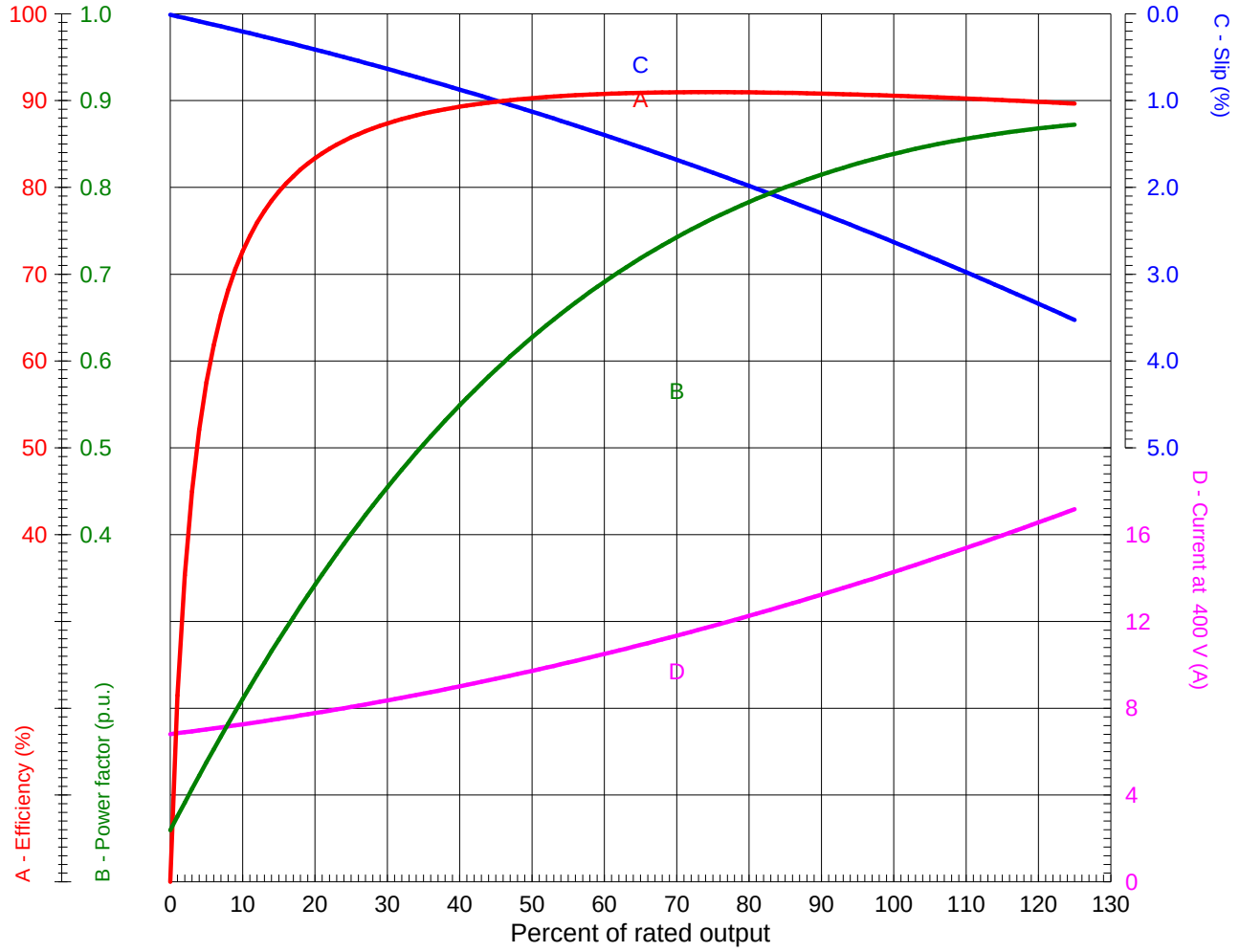
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage



Performance	: 7.5 kW 400/690 V 50 Hz 4P 132M

Rated current	: 14.2/8.23 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 49.1 Nm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

Rev.	Summary of changes	Performed	Checked	Date

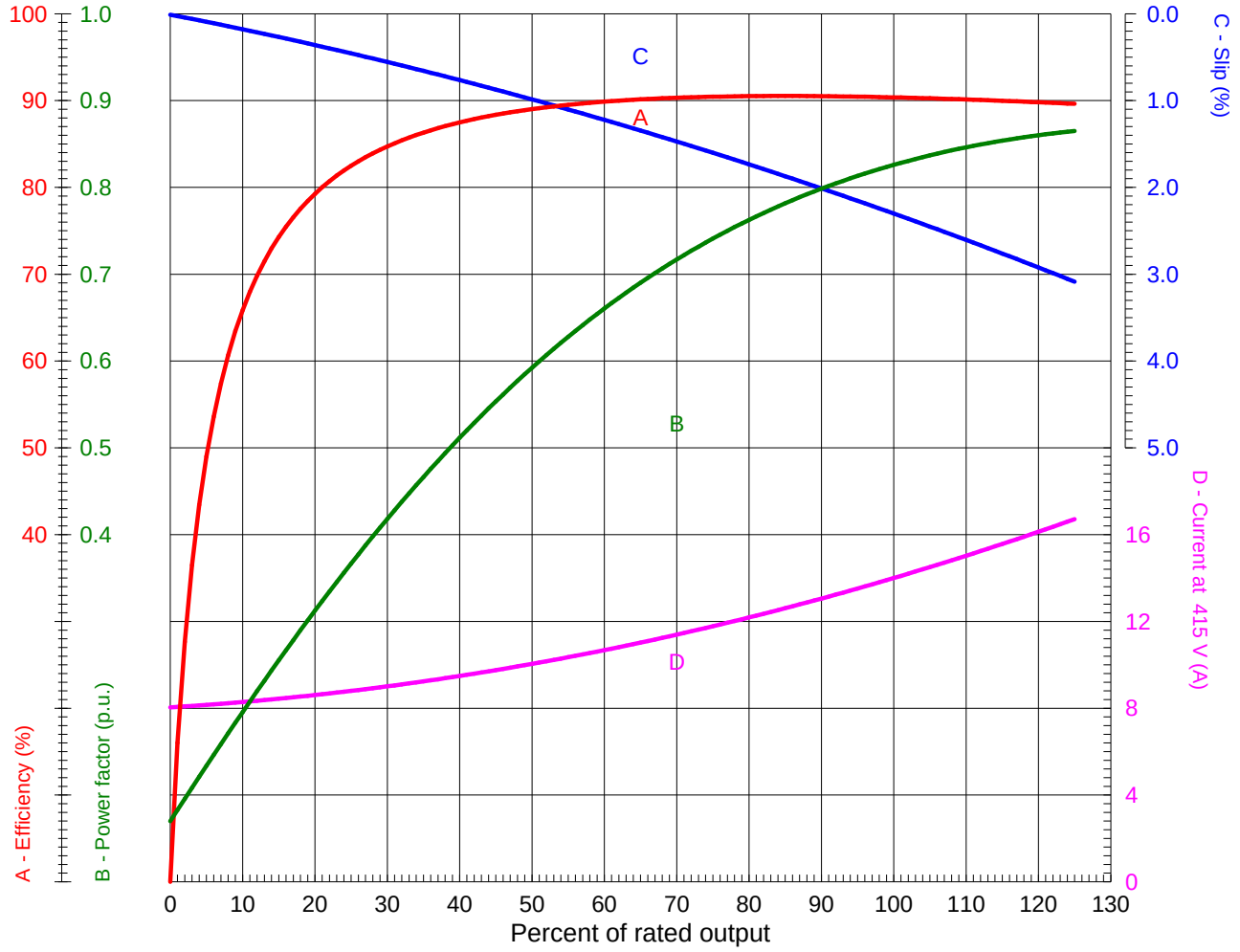
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage



Performance	: 7.5 kW 415 V 50 Hz 4P 132M

Rated current	: 13.9 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 48.9 Nm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

Rev.	Summary of changes	Performed	Checked	Date

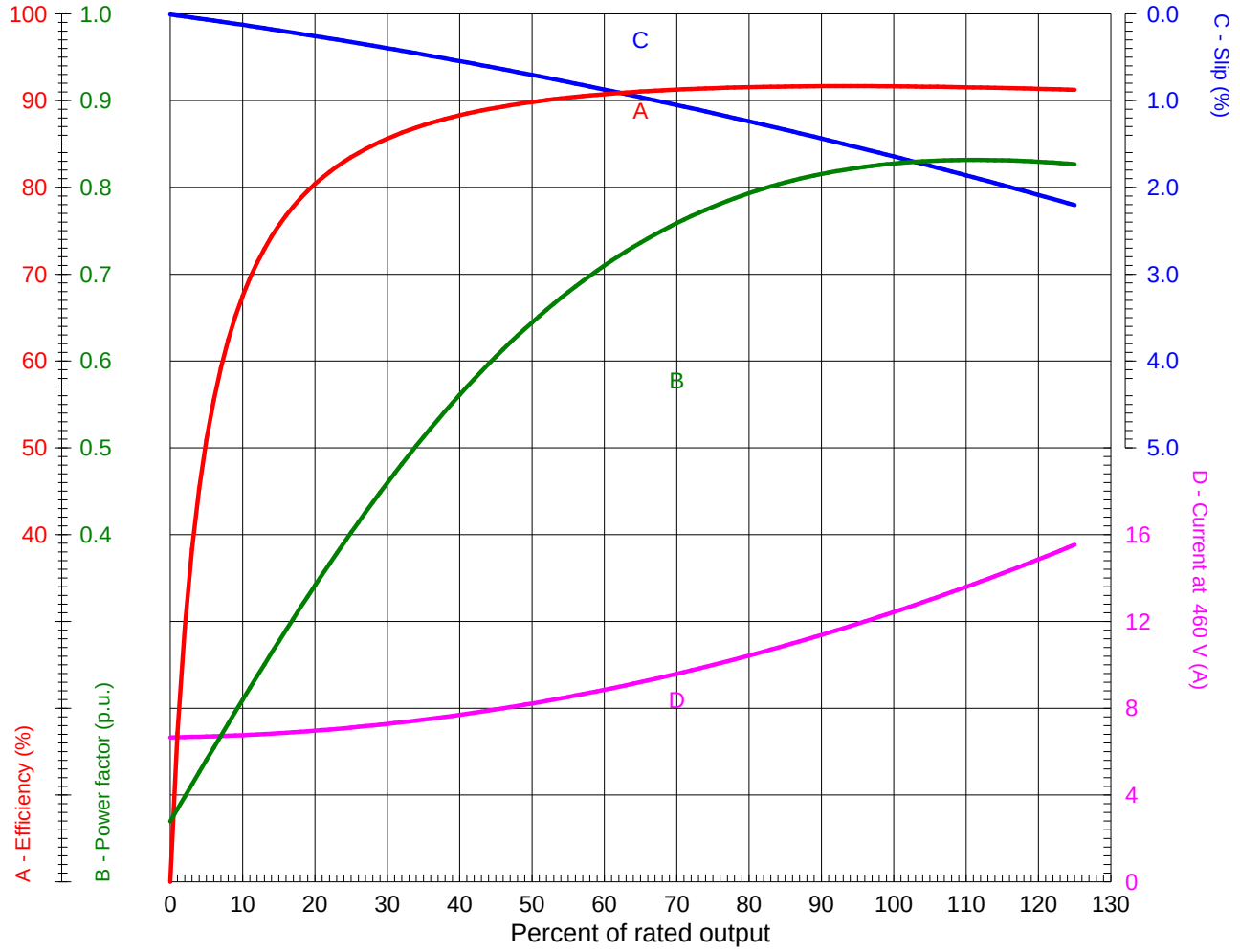
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - IE3 Premium Efficiency Multivoltage



Performance	: 7.5 kW 460 V 60 Hz 4P 132M

Rated current	: 12.4 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 9.5 Code L	Duty cycle	: S1
Rated torque	: 40.5 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

Rev.	Summary of changes	Performed	Checked	Date

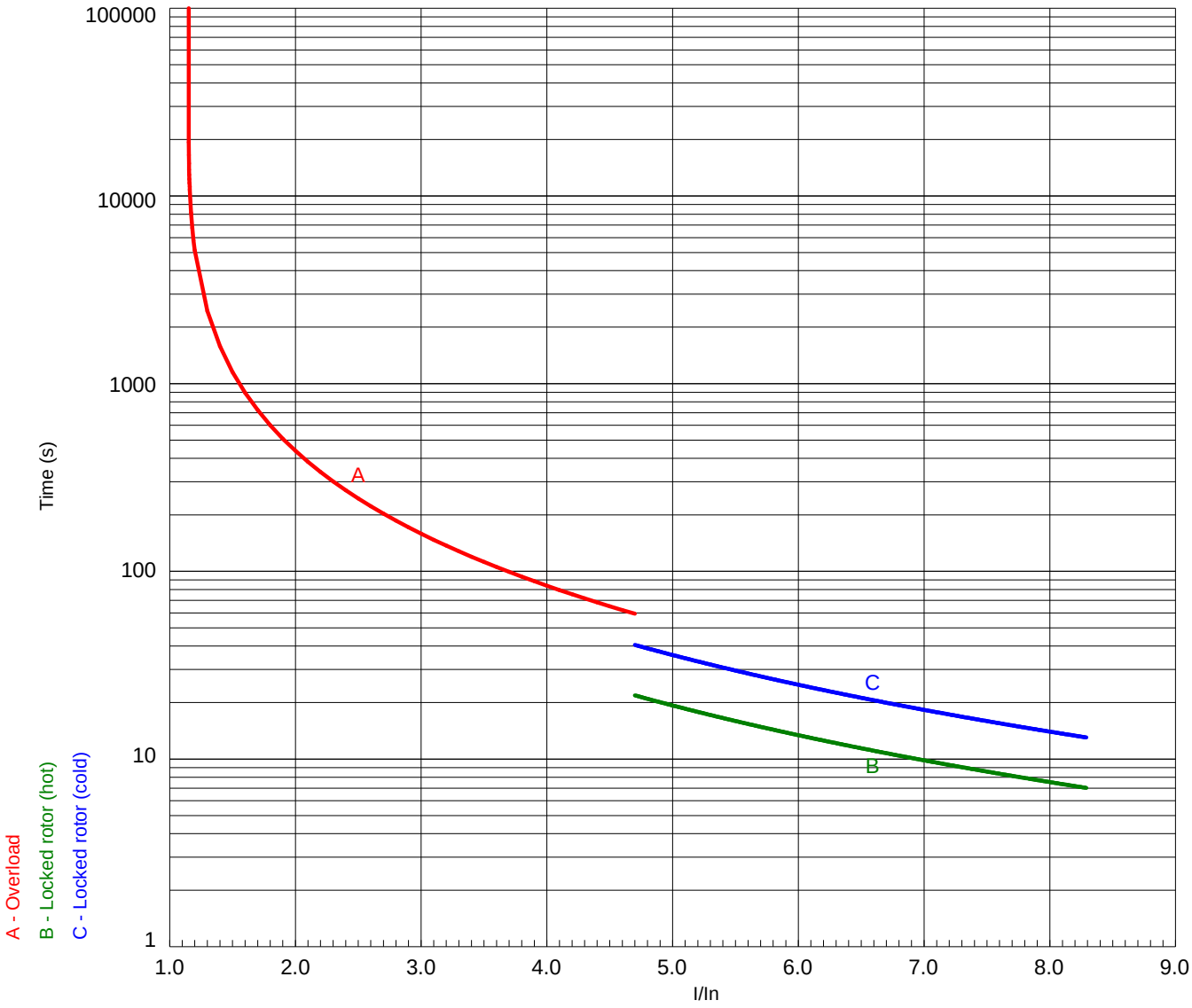
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 380/660 V 50 Hz 4P 132M

Rated current	: 14.7/8.46 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 49.1 Nm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

Heating constant	: 21.3 min
Cooling constant	: 63.8 min

Rev.	Summary of changes	Performed	Checked	Date

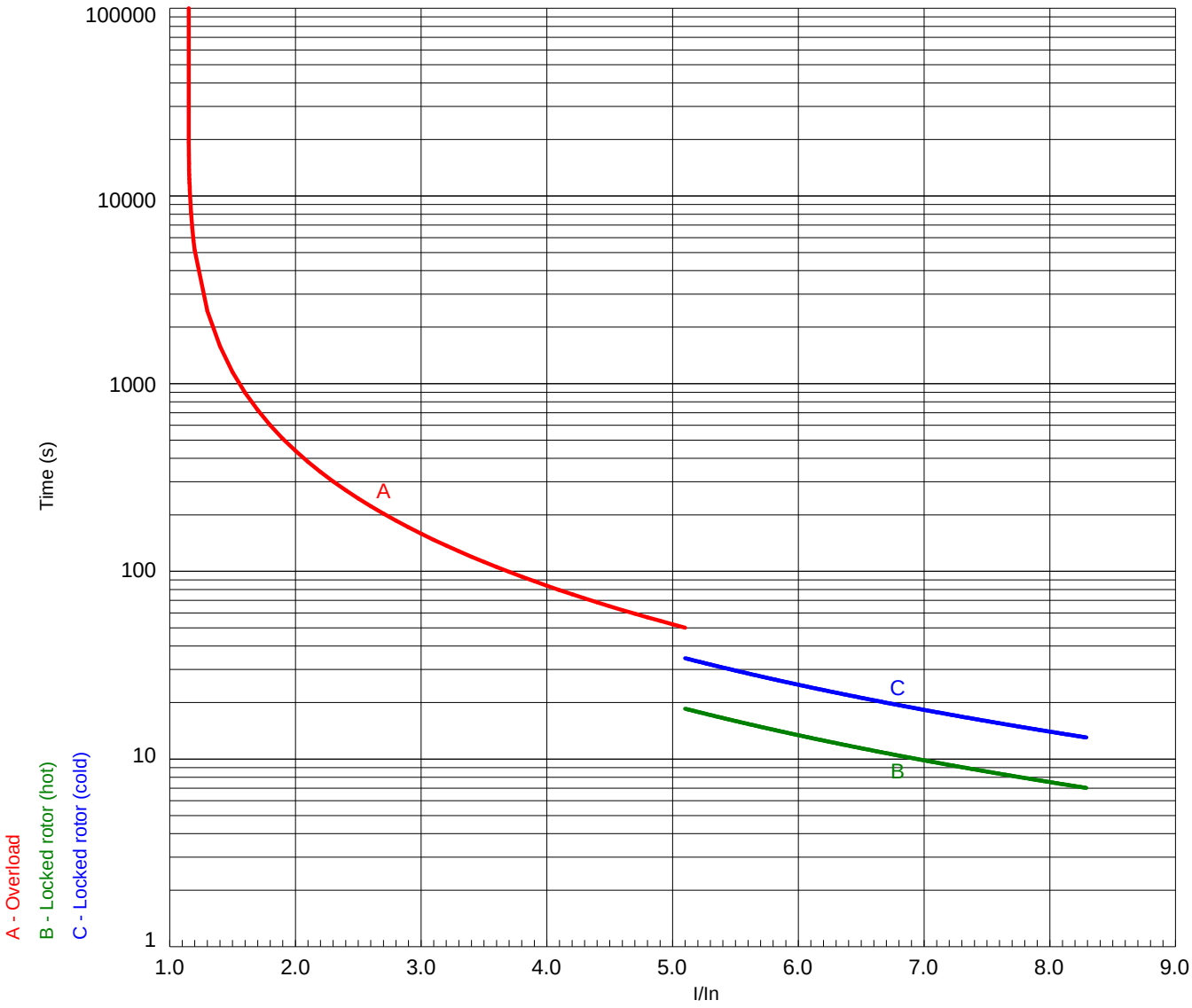
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 400/690 V 50 Hz 4P 132M			
Rated current	:	14.2/8.23 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	8.3	Duty cycle	:	S1
Rated torque	:	49.1 Nm	Insulation class	:	F
Locked rotor torque	:	240 %	Service factor	:	1.00
Breakdown torque	:	350 %	Temperature rise	:	80 K
Rated speed	:	1460 rpm	Design	:	N
Heating constant	:	21.3 min			
Cooling constant	:	63.8 min			

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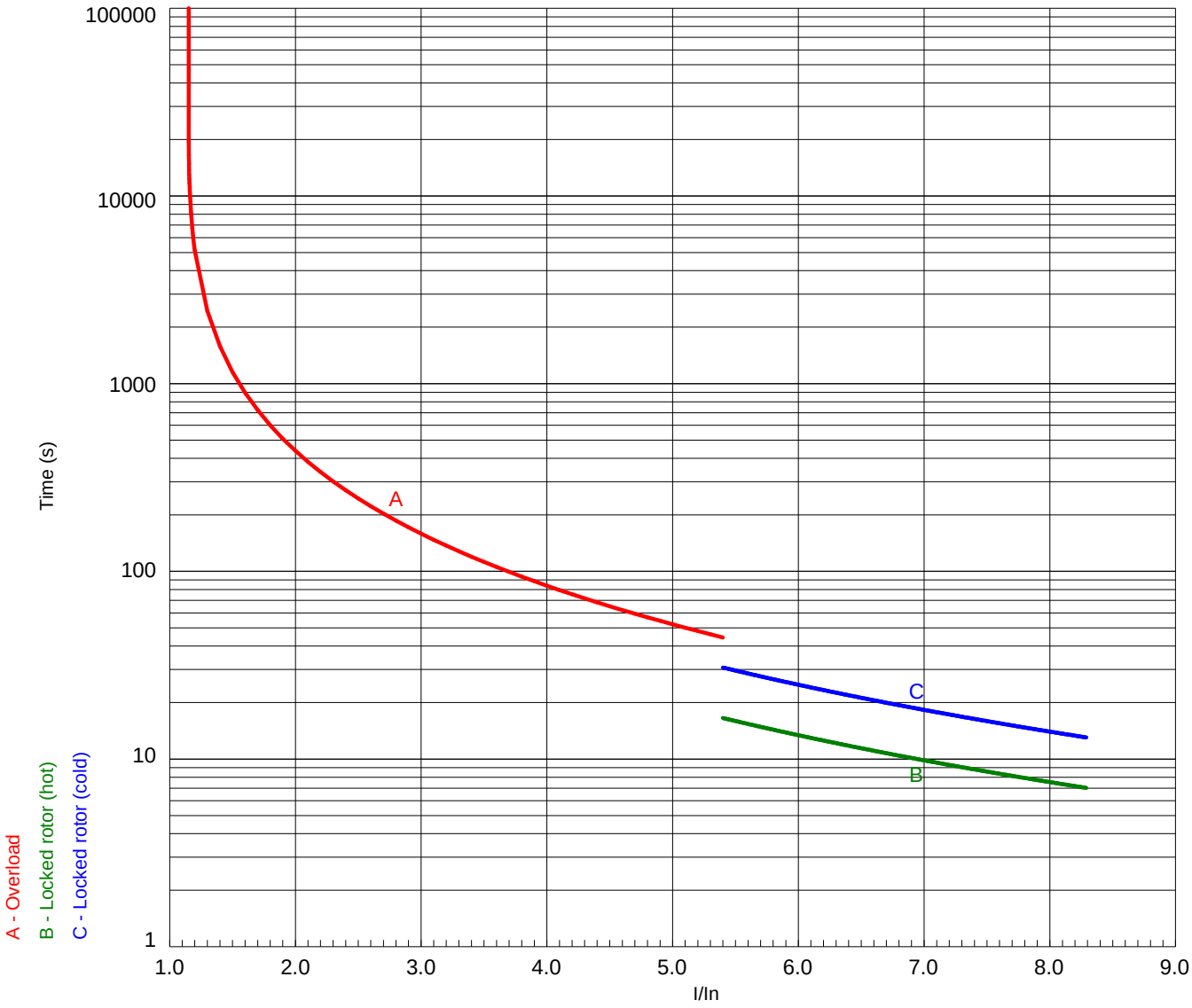
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 7.5 kW 415 V 50 Hz 4P 132M

Rated current	: 13.9 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 48.9 Nm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

Heating constant	: 21.3 min
Cooling constant	: 63.8 min

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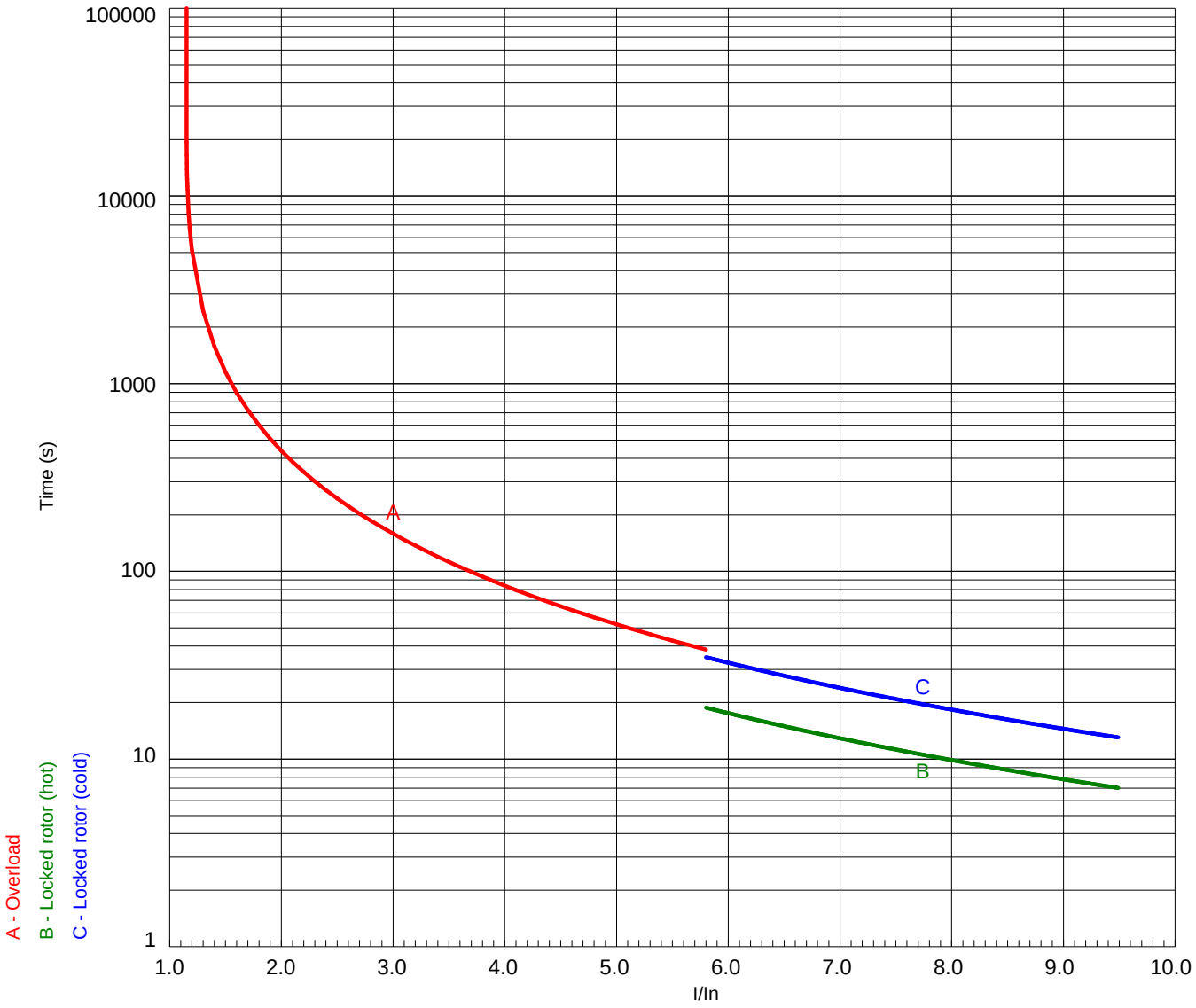
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 7.5 kW 460 V 60 Hz 4P 132M

Rated current	: 12.4 A	Moment of inertia (J)	: 0.0563 kgm²
LRC (p.u.)	: 9.5 Code L	Duty cycle	: S1
Rated torque	: 40.5 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

Heating constant : 21.3 min
Cooling constant : 63.8 min

Rev.	Summary of changes	Performed	Checked	Date

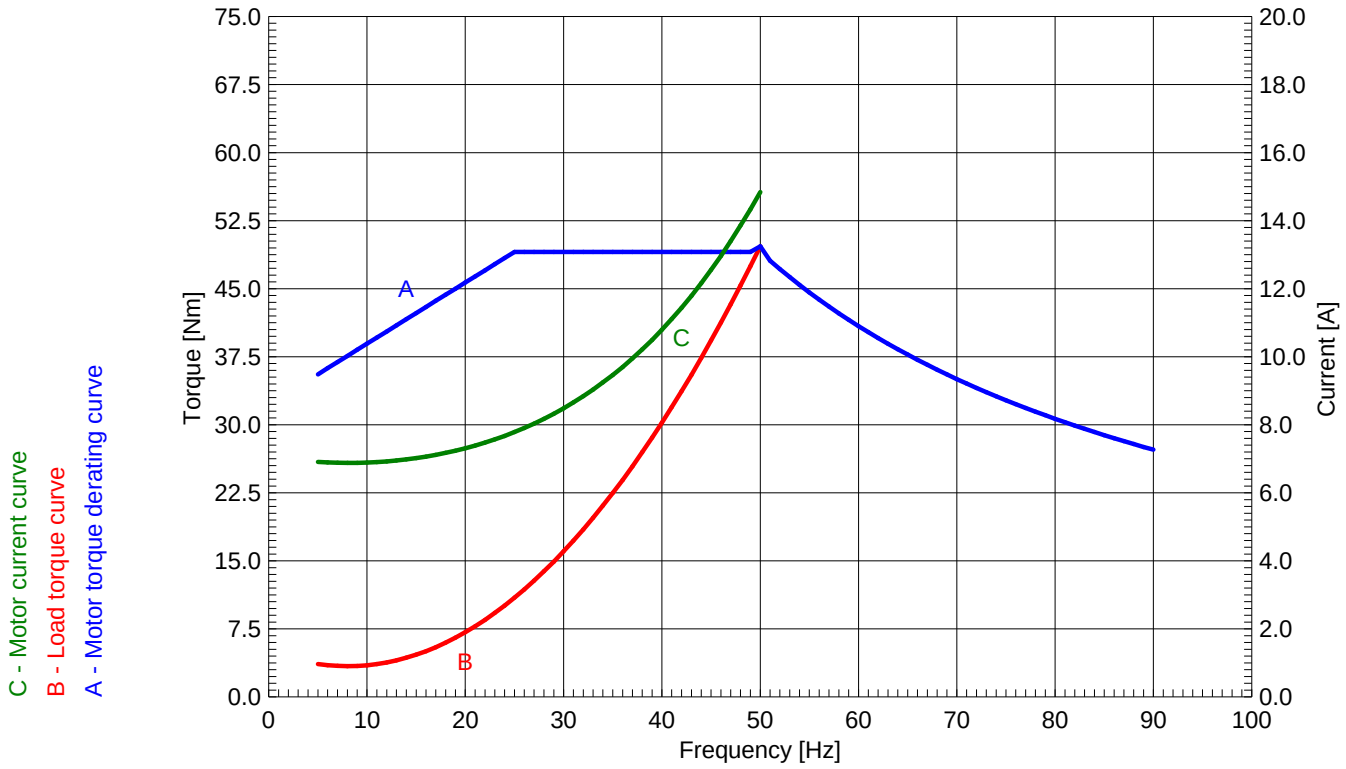
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INVERTER CURVE WITH LOAD TORQUE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 380/660 V 50 Hz 4P 132M			
Rated current	:	14.7/8.46 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	8.3	Duty cycle	:	S1
Rated torque	:	49.1 Nm	Insulation class	:	F
Locked rotor torque	:	220 %	Service factor	:	1.00
Breakdown torque	:	310 %	Temperature rise	:	80 K
Rated speed	:	1460 rpm	Design	:	N
Maximum absorbed power	:	7.5 kW	Maximum torque	:	49.1 Nm
Minimum frequency	:	5 Hz	Minimum speed	:	150 rpm
Maximum frequency	:	50 Hz	Maximum speed	:	1500 rpm

Rev.	Summary of changes	Performed	Checked	Date

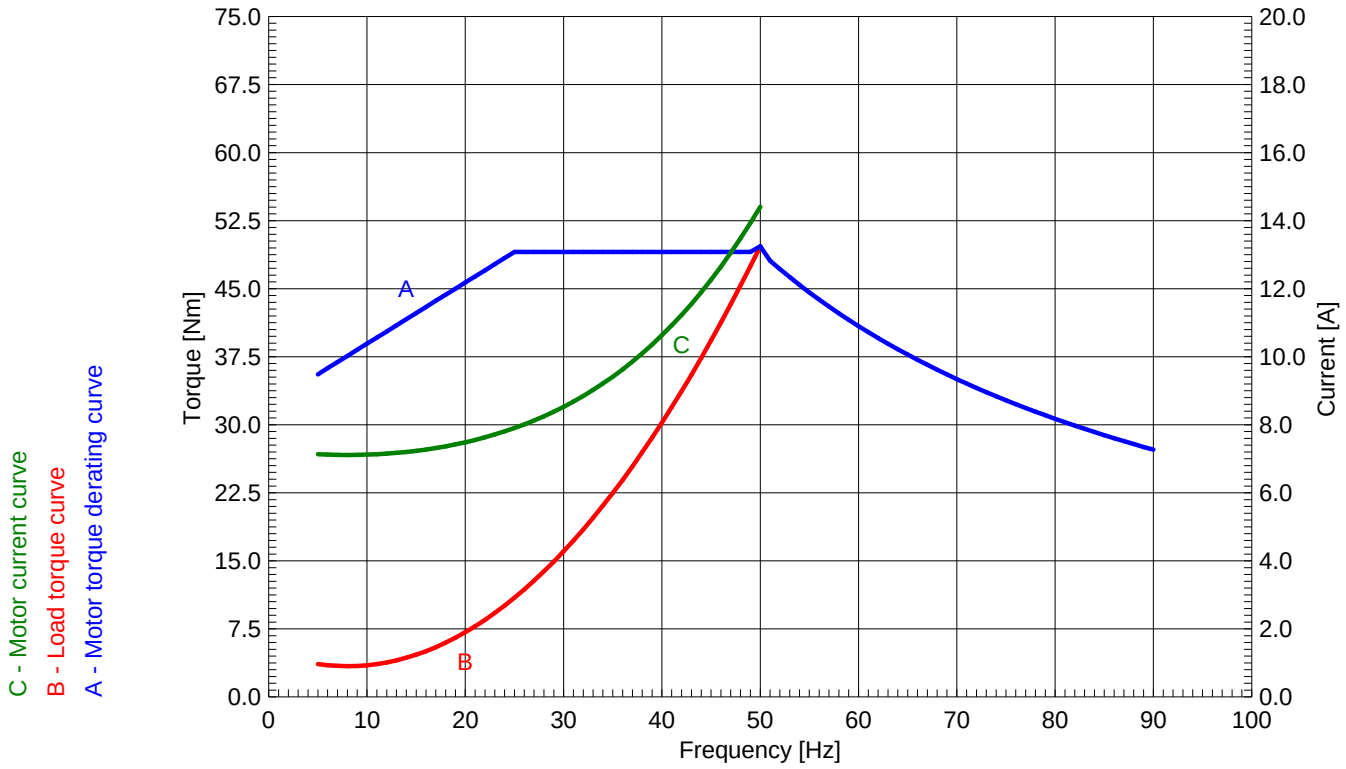
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INVERTER CURVE WITH LOAD TORQUE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 400/690 V 50 Hz 4P 132M			
Rated current	:	14.2/8.23 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	8.3	Duty cycle	:	S1
Rated torque	:	49.1 Nm	Insulation class	:	F
Locked rotor torque	:	240 %	Service factor	:	1.00
Breakdown torque	:	350 %	Temperature rise	:	80 K
Rated speed	:	1460 rpm	Design	:	N
Maximum absorbed power	:	7.5 kW	Maximum torque	:	49.1 Nm
Minimum frequency	:	5 Hz	Minimum speed	:	150 rpm
Maximum frequency	:	50 Hz	Maximum speed	:	1500 rpm

Rev.	Summary of changes	Performed	Checked	Date

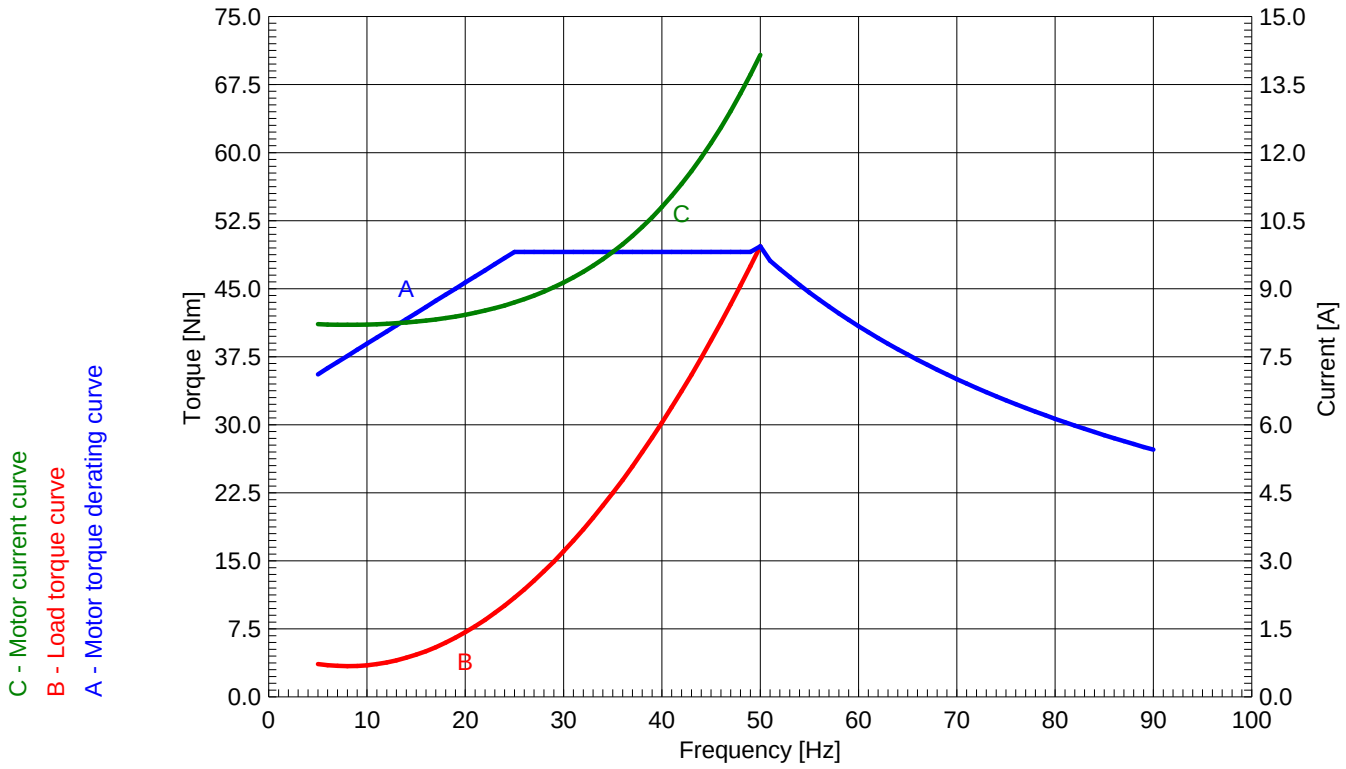
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INVERTER CURVE WITH LOAD TORQUE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 415 V 50 Hz 4P 132M			
Rated current	:	13.9 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	8.3	Duty cycle	:	S1
Rated torque	:	48.9 Nm	Insulation class	:	F
Locked rotor torque	:	260 %	Service factor	:	1.00
Breakdown torque	:	380 %	Temperature rise	:	80 K
Rated speed	:	1465 rpm	Design	:	N
Maximum absorbed power	:	7.5 kW	Maximum torque	:	49.1 Nm
Minimum frequency	:	5 Hz	Minimum speed	:	150 rpm
Maximum frequency	:	50 Hz	Maximum speed	:	1500 rpm

Rev.	Summary of changes	Performed	Checked	Date

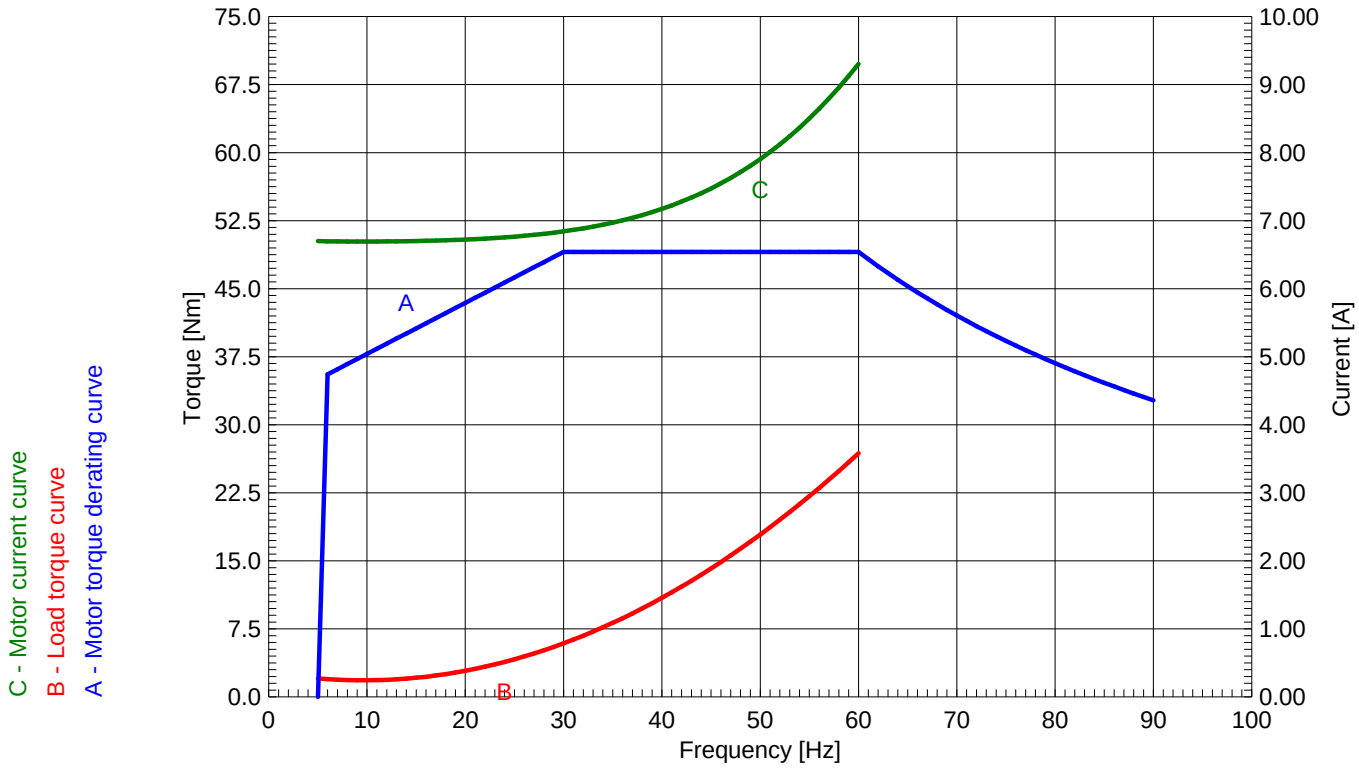
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INVERTER CURVE WITH LOAD TORQUE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 460 V 60 Hz 4P 132M			
Rated current	:	12.4 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	9.5 Code L	Duty cycle	:	S1
Rated torque	:	40.5 Nm	Insulation class	:	F
Locked rotor torque	:	250 %	Service factor	:	1.00
Breakdown torque	:	400 %	Temperature rise	:	80 K
Rated speed	:	1770 rpm	Design	:	N
Maximum absorbed power	:	7.5 kW	Maximum torque	:	49.1 Nm
Minimum frequency	:	5 Hz	Minimum speed	:	150 rpm
Maximum frequency	:	60 Hz	Maximum speed	:	1800 rpm

Rev.	Summary of changes	Performed	Checked	Date

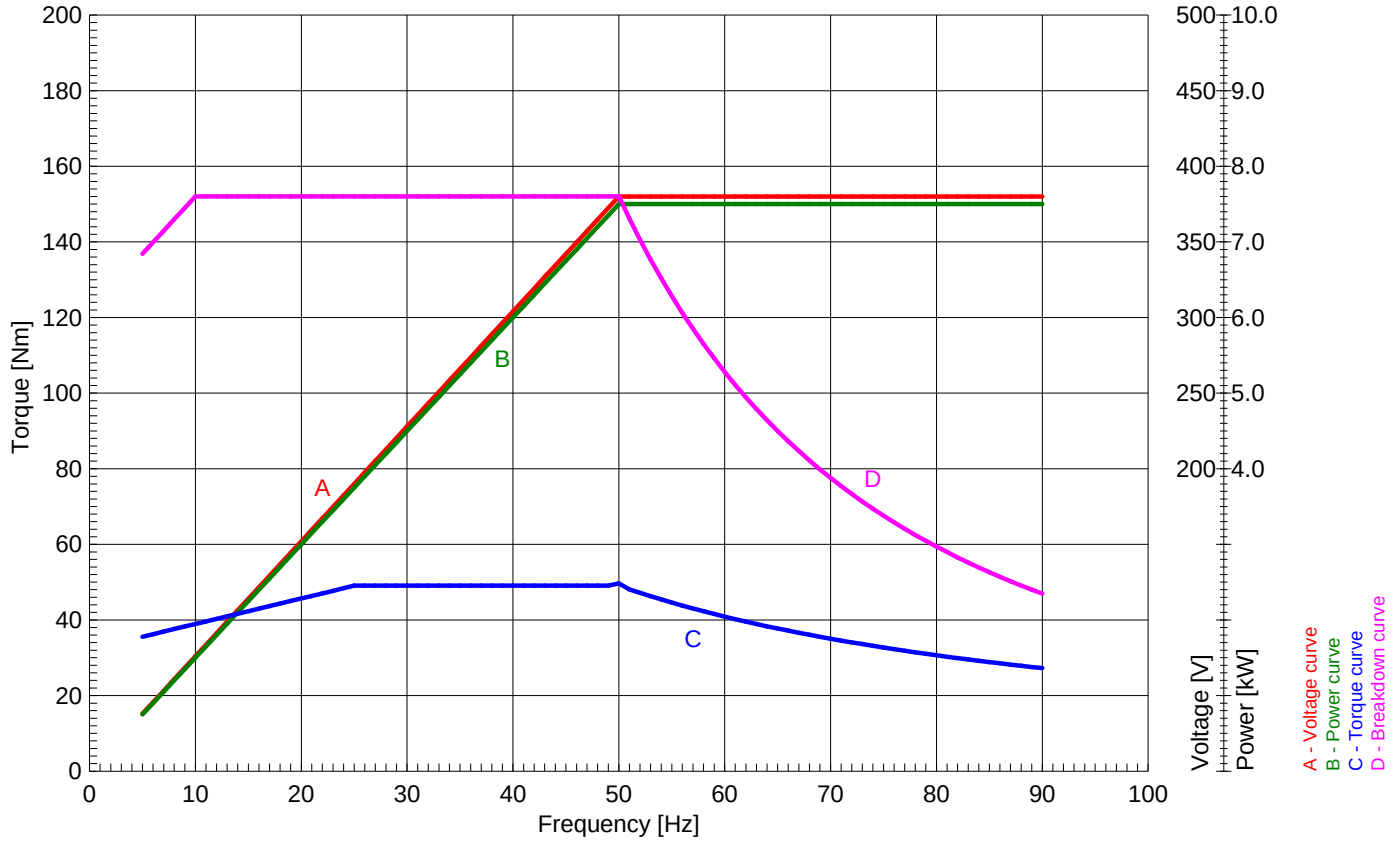
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Checked by			Page	Revision
Date	17/07/2020		18/22	0

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 380/660 V 50 Hz 4P 132M			
Rated current	:	14.7/8.46 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	8.3	Duty cycle	:	S1
Rated torque	:	49.1 Nm	Insulation class	:	F
Locked rotor torque	:	220 %	Service factor	:	1.00
Breakdown torque	:	310 %	Temperature rise	:	80 K
Rated speed	:	1460 rpm	Design	:	N
Operation limits with inverter 5 Hz up to 50 Hz (Variable torque): 49.1 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

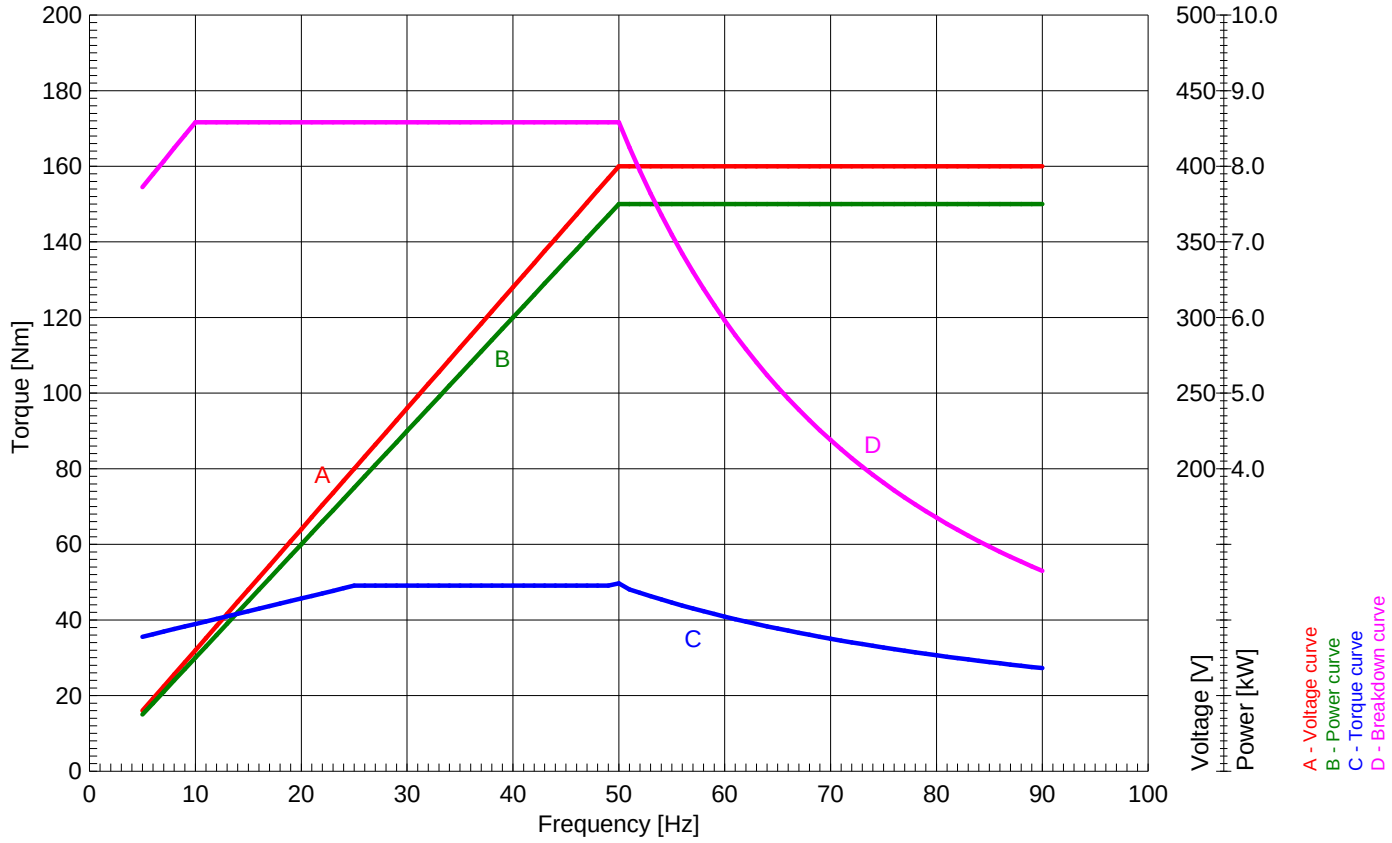
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 400/690 V 50 Hz 4P 132M			
Rated current	:	14.2/8.23 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	8.3	Duty cycle	:	S1
Rated torque	:	49.1 Nm	Insulation class	:	F
Locked rotor torque	:	240 %	Service factor	:	1.00
Breakdown torque	:	350 %	Temperature rise	:	80 K
Rated speed	:	1460 rpm	Design	:	N
Operation limits with inverter 5 Hz up to 50 Hz (Variable torque): 49.1 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

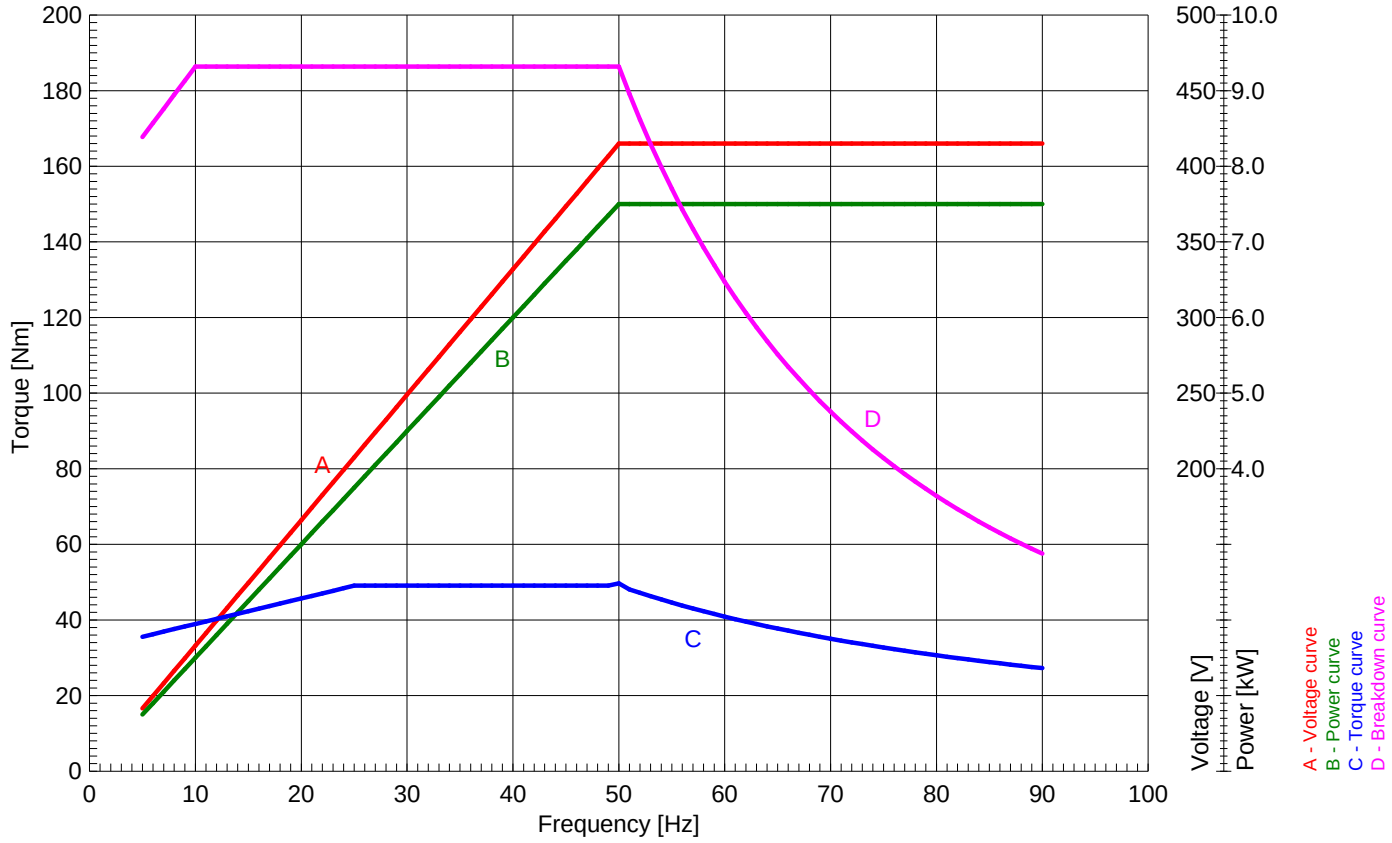
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 415 V 50 Hz 4P 132M			
Rated current	:	13.9 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	8.3	Duty cycle	:	S1
Rated torque	:	48.9 Nm	Insulation class	:	F
Locked rotor torque	:	260 %	Service factor	:	1.00
Breakdown torque	:	380 %	Temperature rise	:	80 K
Rated speed	:	1465 rpm	Design	:	N
Operation limits with inverter 5 Hz up to 50 Hz (Variable torque): 49.1 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

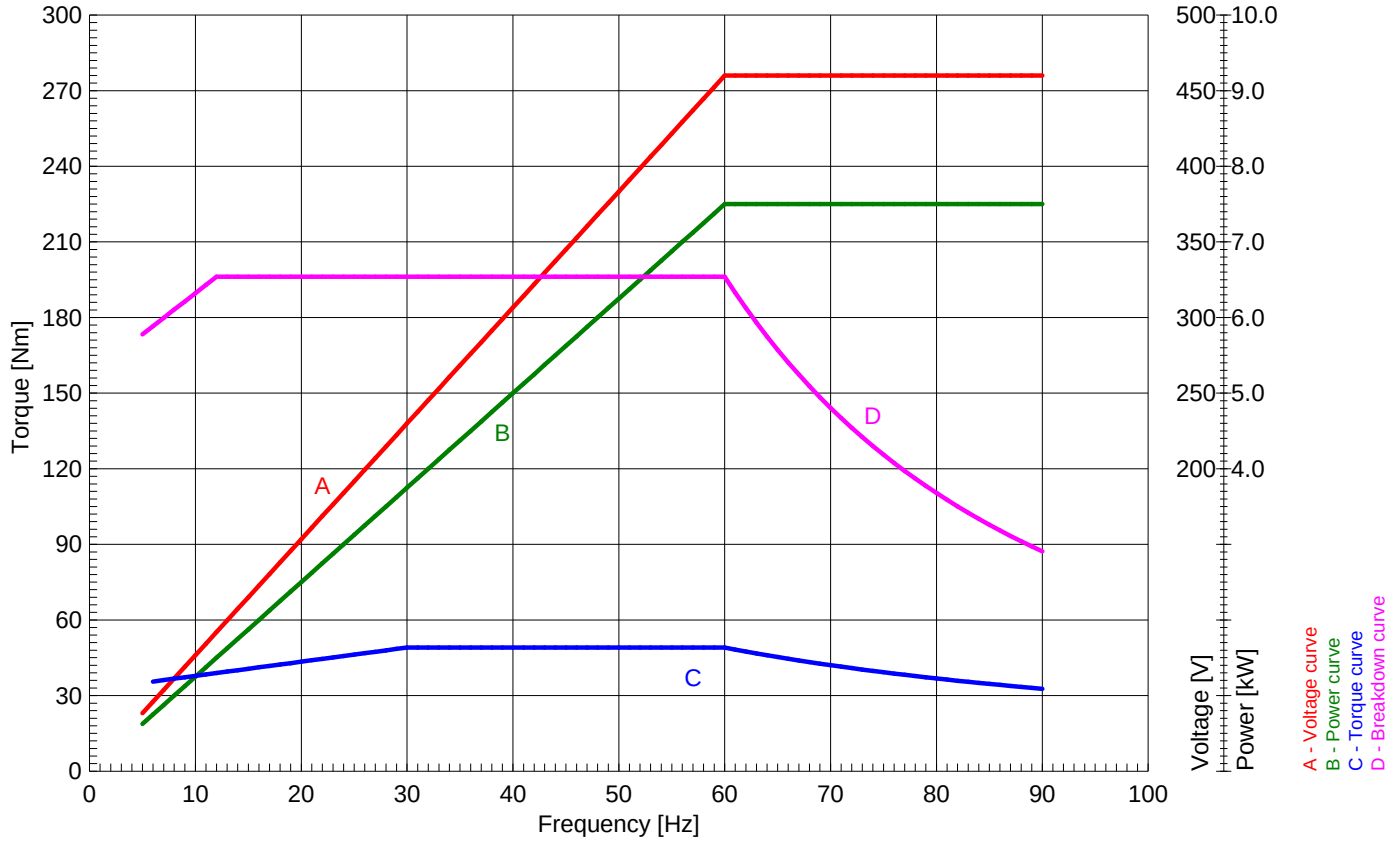
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:	
Product line	:	W22 - IE3 Premium Efficiency Multivoltage



Performance	:	7.5 kW 460 V 60 Hz 4P 132M			
Rated current	:	12.4 A	Moment of inertia (J)	:	0.0563 kgm²
LRC (p.u.)	:	9.5 Code L	Duty cycle	:	S1
Rated torque	:	40.5 Nm	Insulation class	:	F
Locked rotor torque	:	250 %	Service factor	:	1.00
Breakdown torque	:	400 %	Temperature rise	:	80 K
Rated speed	:	1770 rpm	Design	:	N
Operation limits with inverter 5 Hz up to 50 Hz (Variable torque): 49.1 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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