

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage

Frame	: 132S	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3T
Duty cycle	: S1	Direct of rotation ¹	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: VFD
Altitude	: 1000 m.a.s.l	Approx. weight ³	: 66.0 kg
Degree of protection	: IP55	Moment of inertia (J)	: 0.0491 kgm ²
Design	: N		

Output	5.5 kW	5.5 kW	5.5 kW	5.5 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	10.8/6.22 A	10.5/6.09 A	10.4 A	9.18 A
L. R. Amperes	81.0/46.6 A	87.2/50.5 A	91.5 A	82.6 A
LRC (p.u.)	7.5	8.3	8.8	9.0 x Code K
No load current	4.70/2.71 A	5.20/3.01 A	5.60 A	4.70 A
Rated speed	1460 rpm	1465 rpm	1470 rpm	1770 rpm
Slip	2.67 %	2.33 %	2.00 %	1.67 %
Rated torque	36.0 Nm	35.9 Nm	35.7 Nm	29.7 Nm
Locked rotor torque	210 %	230 %	250 %	250 %
Breakdown torque	300 %	330 %	360 %	390 %
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	14 s (hot) 25 s (cold)	12 s (hot) 22 s (cold)	12 s (hot) 22 s (cold)	16 s (hot) 29 s (cold)
Efficiency (%)	50%	89.0	89.0	89.4
	75%	89.6	89.6	89.6
	100%	89.6	89.7	89.8
Power factor	Start	0.56	0.57	0.57
	50%	0.71	0.66	0.63
	75%	0.81	0.78	0.75
	100%	0.86	0.84	0.82

Bearing type Lubrication interval Lubricant amount Lubricant type	Drive end	Non drive end	Foundation loads	
	6308-ZZ	6207-ZZ	Maximum traction	: 2060 N
	-	-	Maximum compression	: 2707 N
	-	-		
	MOBIL POLYREX EM			

This revision replaces and cancels the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.	
(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.			

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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): 36.0 Nm

Maximum peak voltage phase-to-phase ≤ 1600 V

dV/dt ≤ 5200 V/ μ s

Rise time $\geq 0,1$ μ s

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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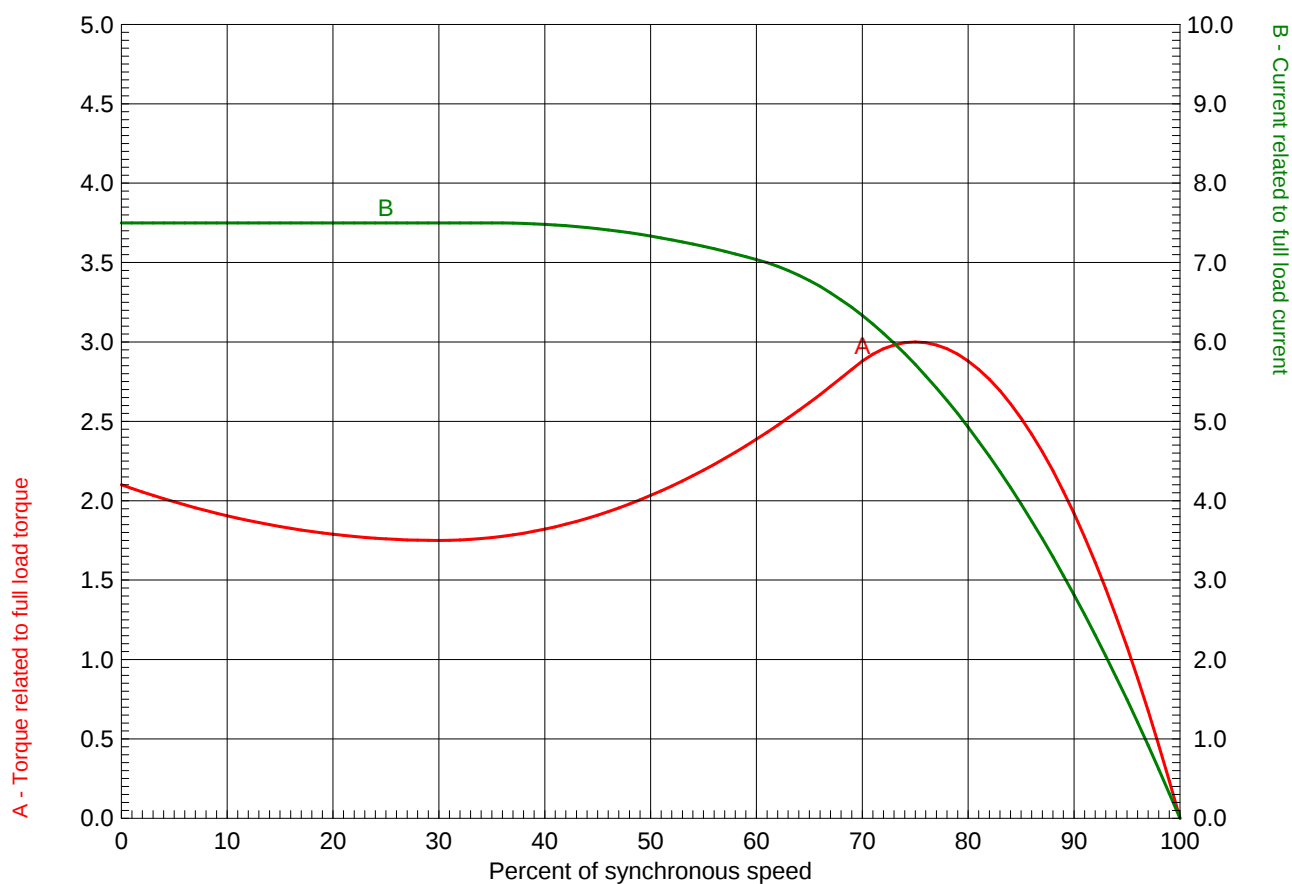
TORQUE AND CURRENT X SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 380/660 V 50 Hz 4P 132S

Rated current	: 10.8/6.22 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 7.5	Duty cycle	: S1
Rated torque	: 36.0 Nm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

Locked rotor time 100% : 14 s (hot) 25 s (cold)
Load inertia (J=GD²/4) : 0.0491 kgm²

Rev.	Summary of changes		Performed	Checked	Date
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Date	17/07/2020				
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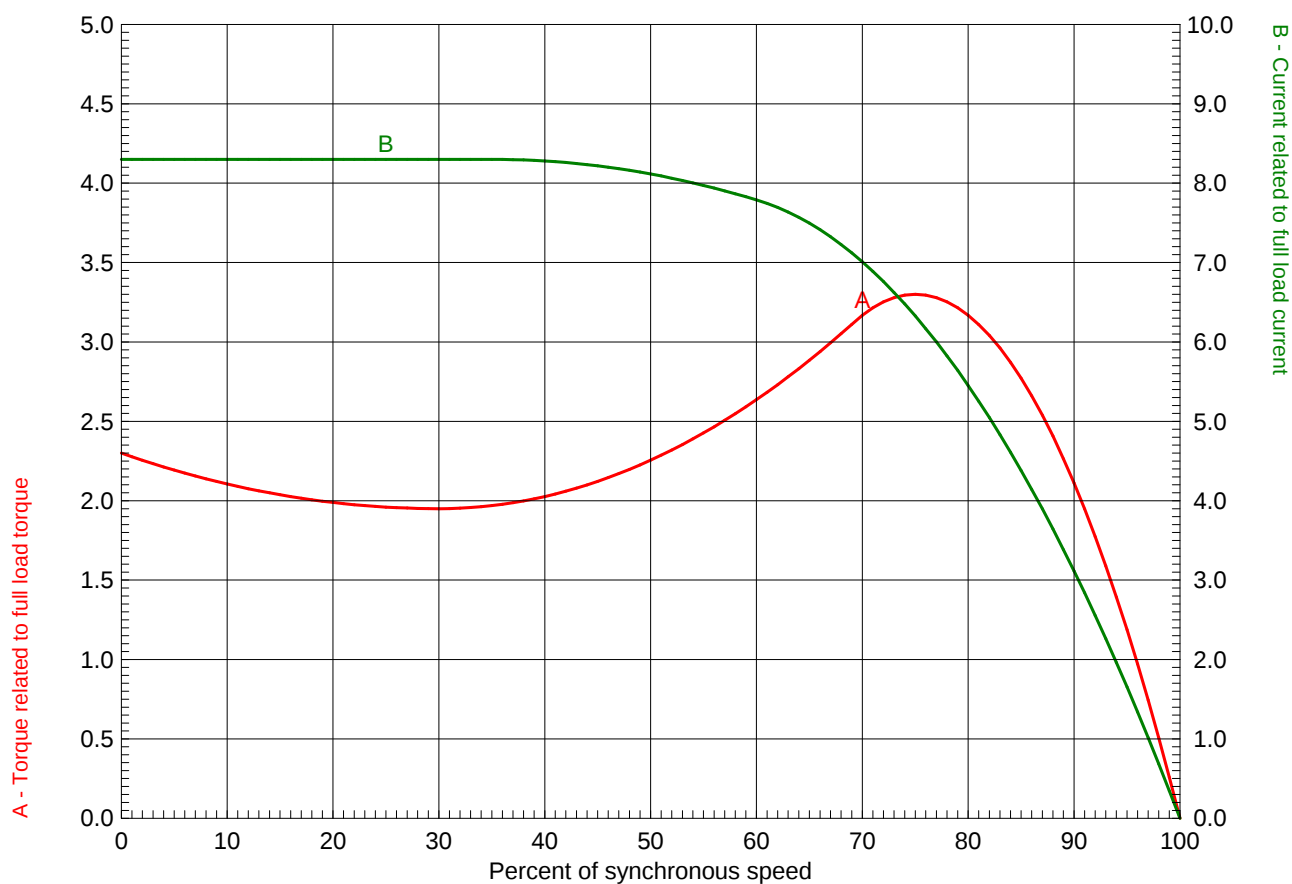
TORQUE AND CURRENT X SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 400/690 V 50 Hz 4P 132S

Rated current	: 10.5/6.09 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 35.9 Nm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

Locked rotor time 100% : 12 s (hot) 22 s (cold)
Load inertia (J=GD²/4) : 0.0491 kgm²

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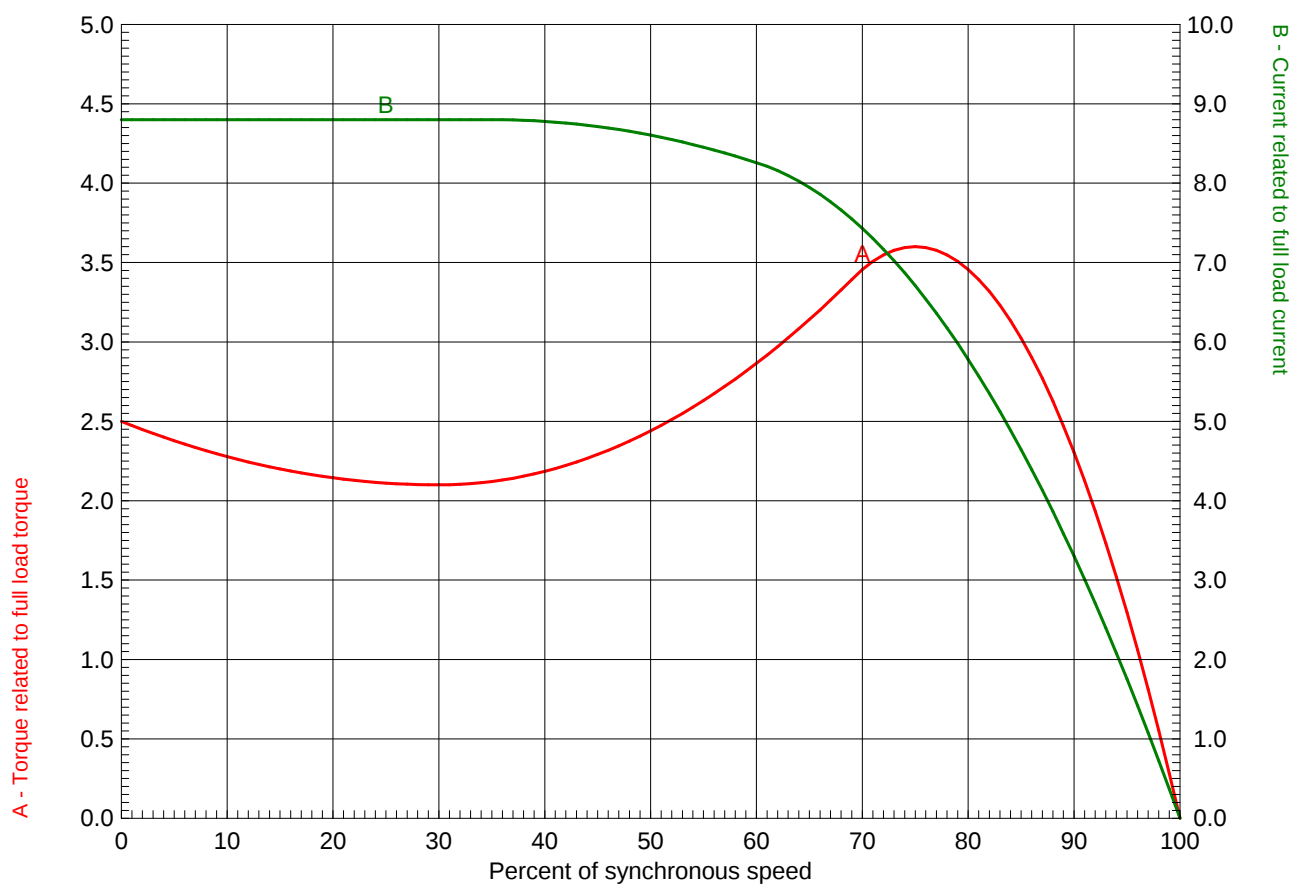
TORQUE AND CURRENT X SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 415 V 50 Hz 4P 132S

Rated current	: 10.4 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.8	Duty cycle	: S1
Rated torque	: 35.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: N

Locked rotor time 100% : 12 s (hot) 22 s (cold)
Load inertia (J=GD²/4) : 0.0491 kgm²

Rev.	Summary of changes		Performed	Checked	Date
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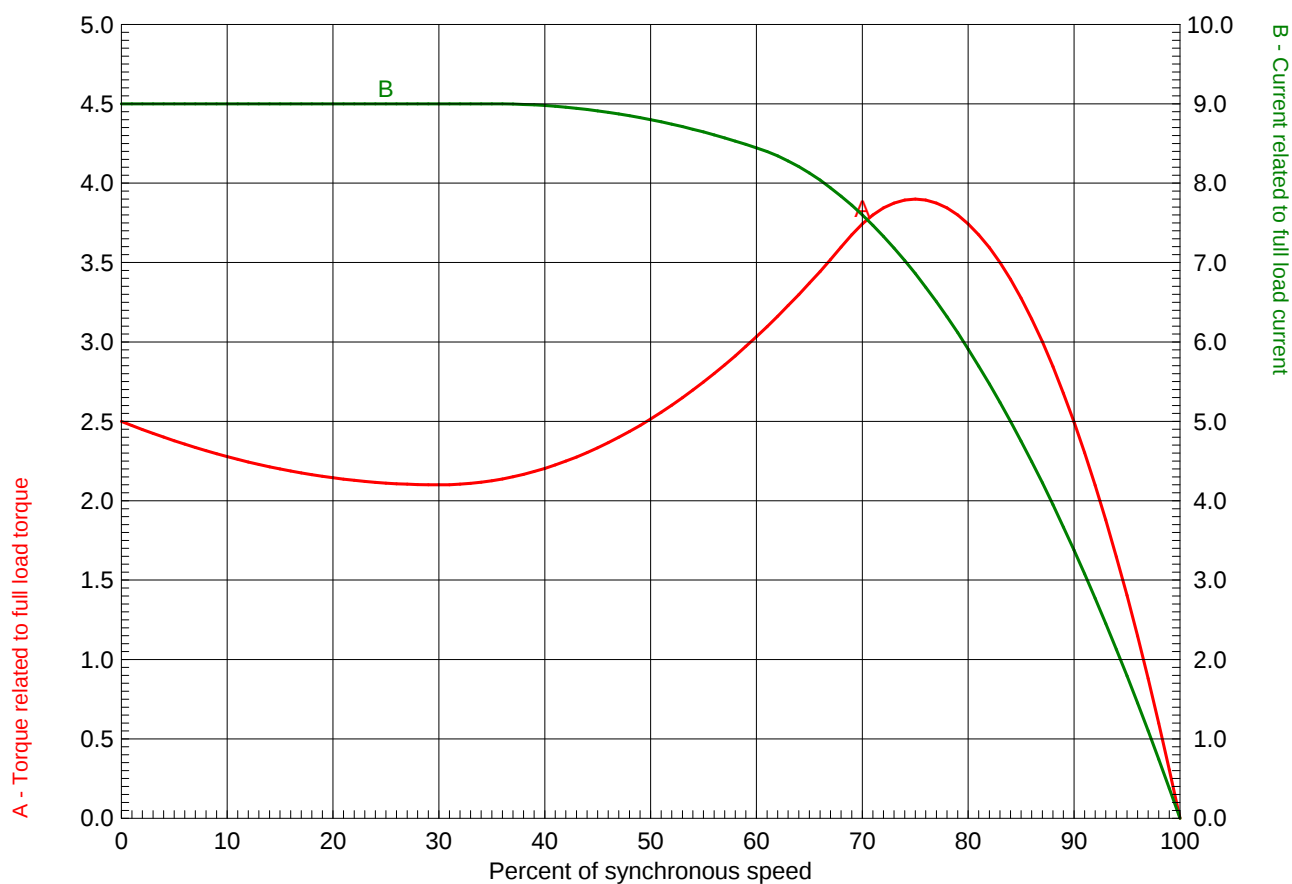
TORQUE AND CURRENT X SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 460 V 60 Hz 4P 132S

Rated current	: 9.18 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 9.0 Code K	Duty cycle	: S1
Rated torque	: 29.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

Locked rotor time 100% : 16 s (hot) 29 s (cold)
Load inertia (J=GD²/4) : 0.0491 kgm²

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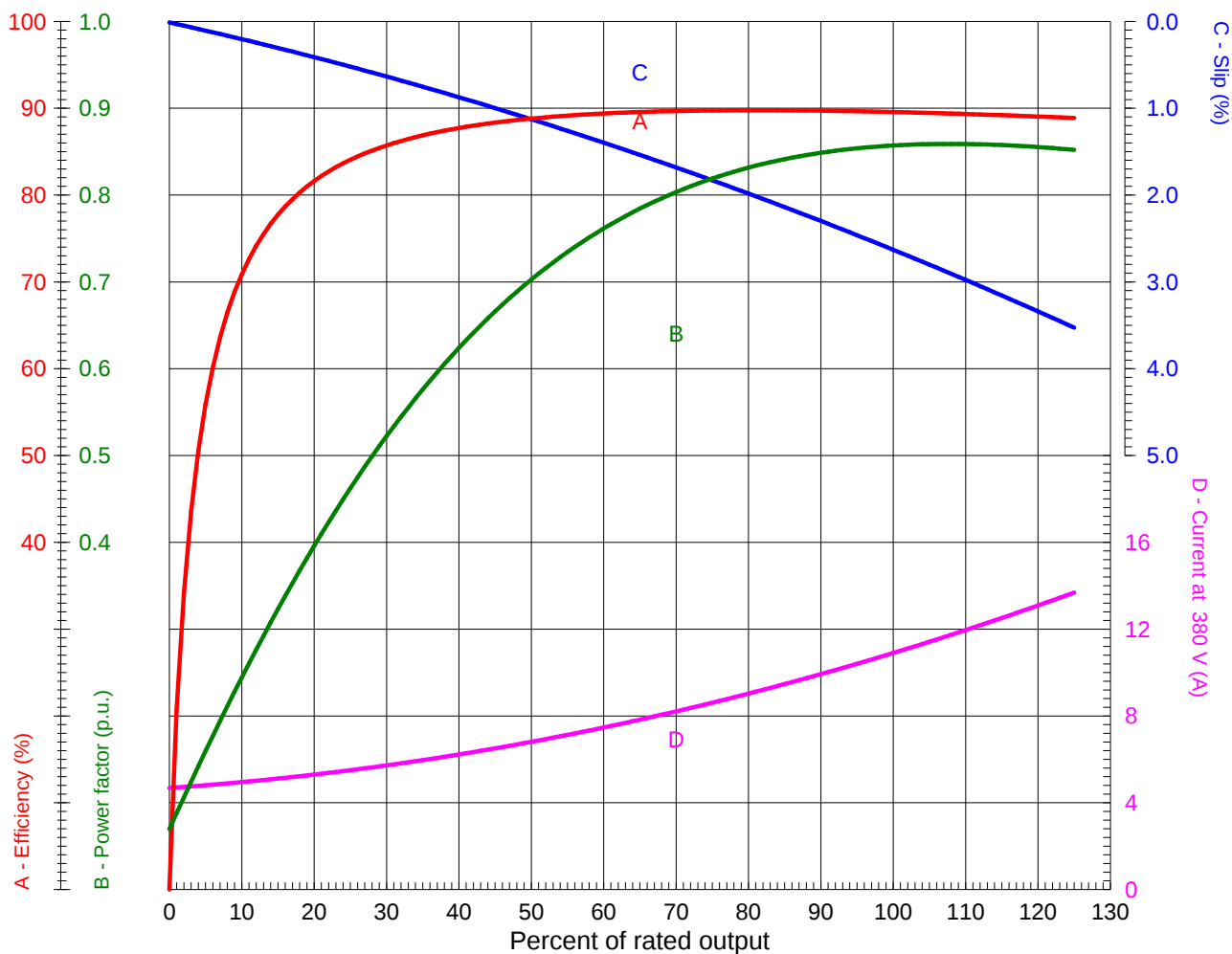
LOAD PERFORMANCE CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 380/660 V 50 Hz 4P 132S

Rated current	: 10.8/6.22 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 7.5	Duty cycle	: S1
Rated torque	: 36.0 Nm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

Rev.	Summary of changes		Performed	Checked	Date
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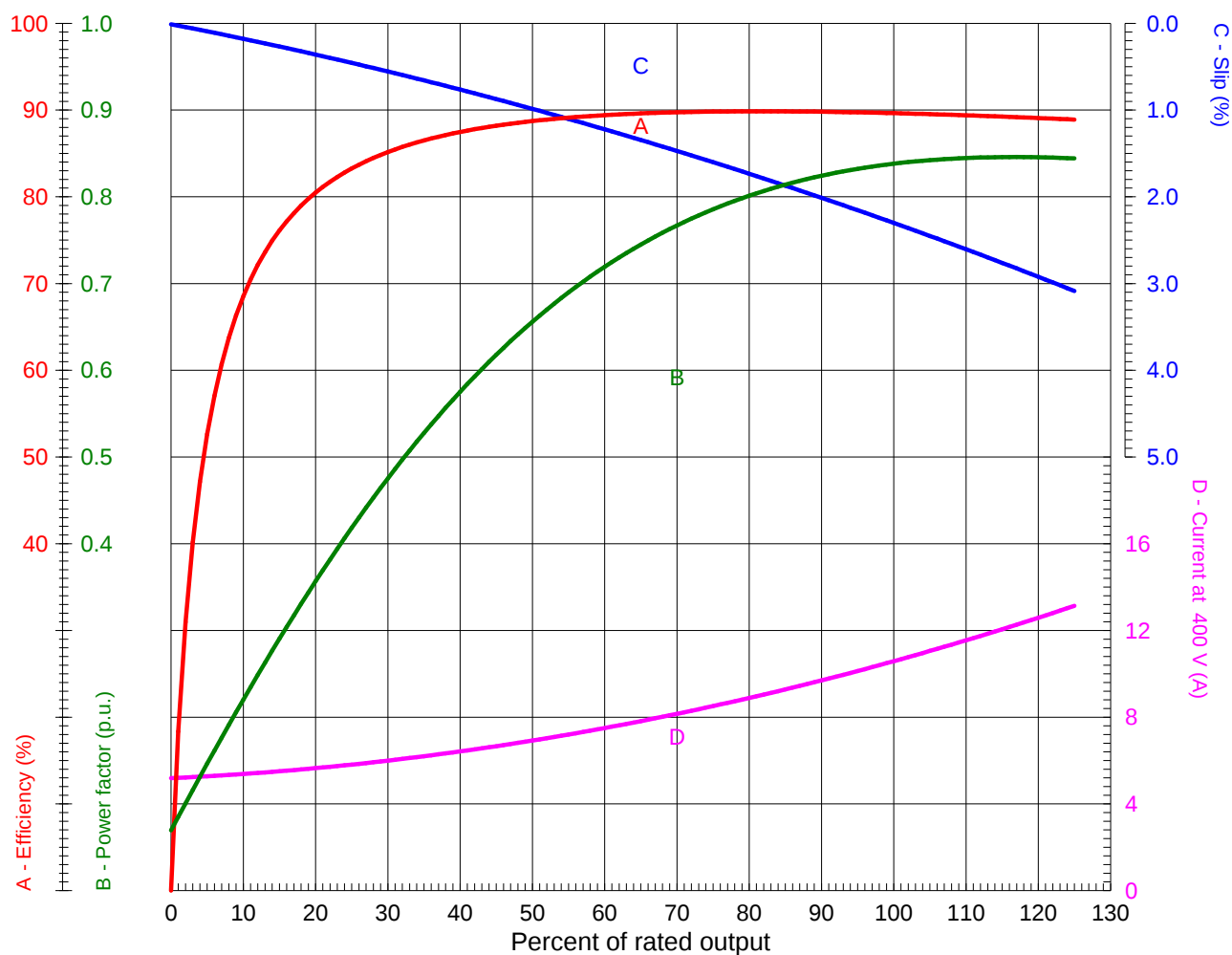
LOAD PERFORMANCE CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 400/690 V 50 Hz 4P 132S

Rated current	: 10.5/6.09 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 35.9 Nm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

Rev.	Summary of changes		Performed	Checked	Date
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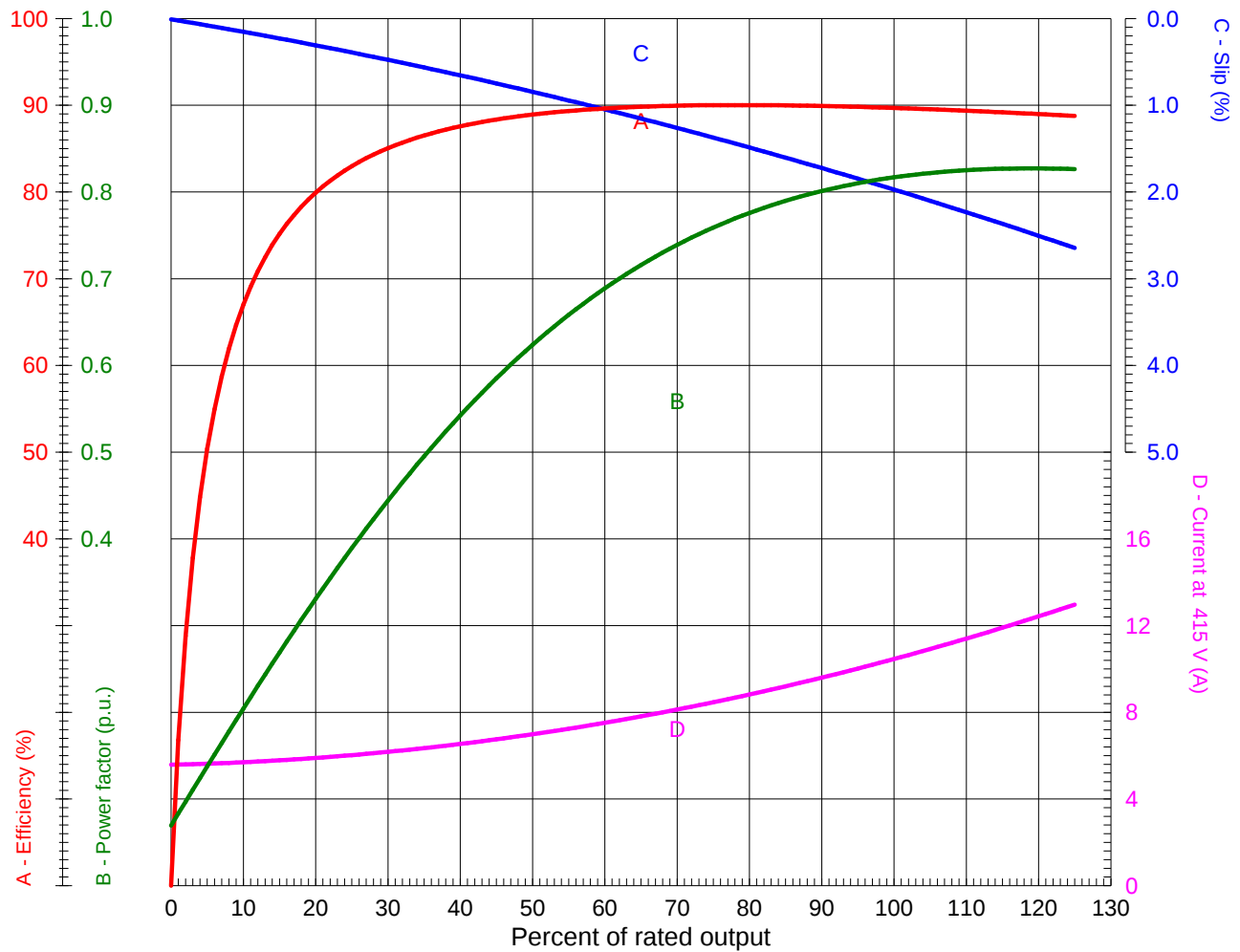
LOAD PERFORMANCE CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 415 V 50 Hz 4P 132S

Rated current	: 10.4 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.8	Duty cycle	: S1
Rated torque	: 35.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: N

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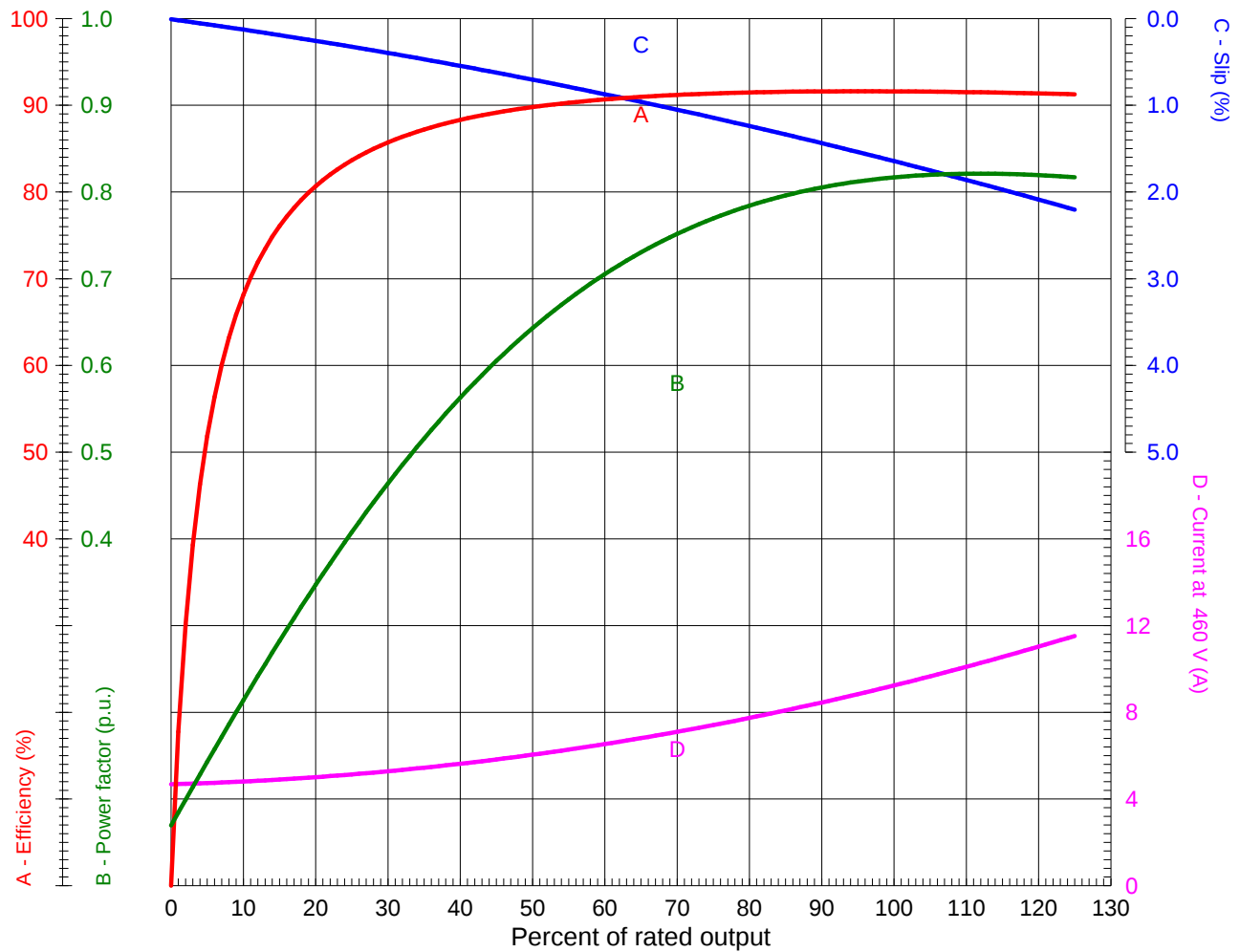
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 460 V 60 Hz 4P 132S

Rated current	: 9.18 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 9.0 Code K	Duty cycle	: S1
Rated torque	: 29.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

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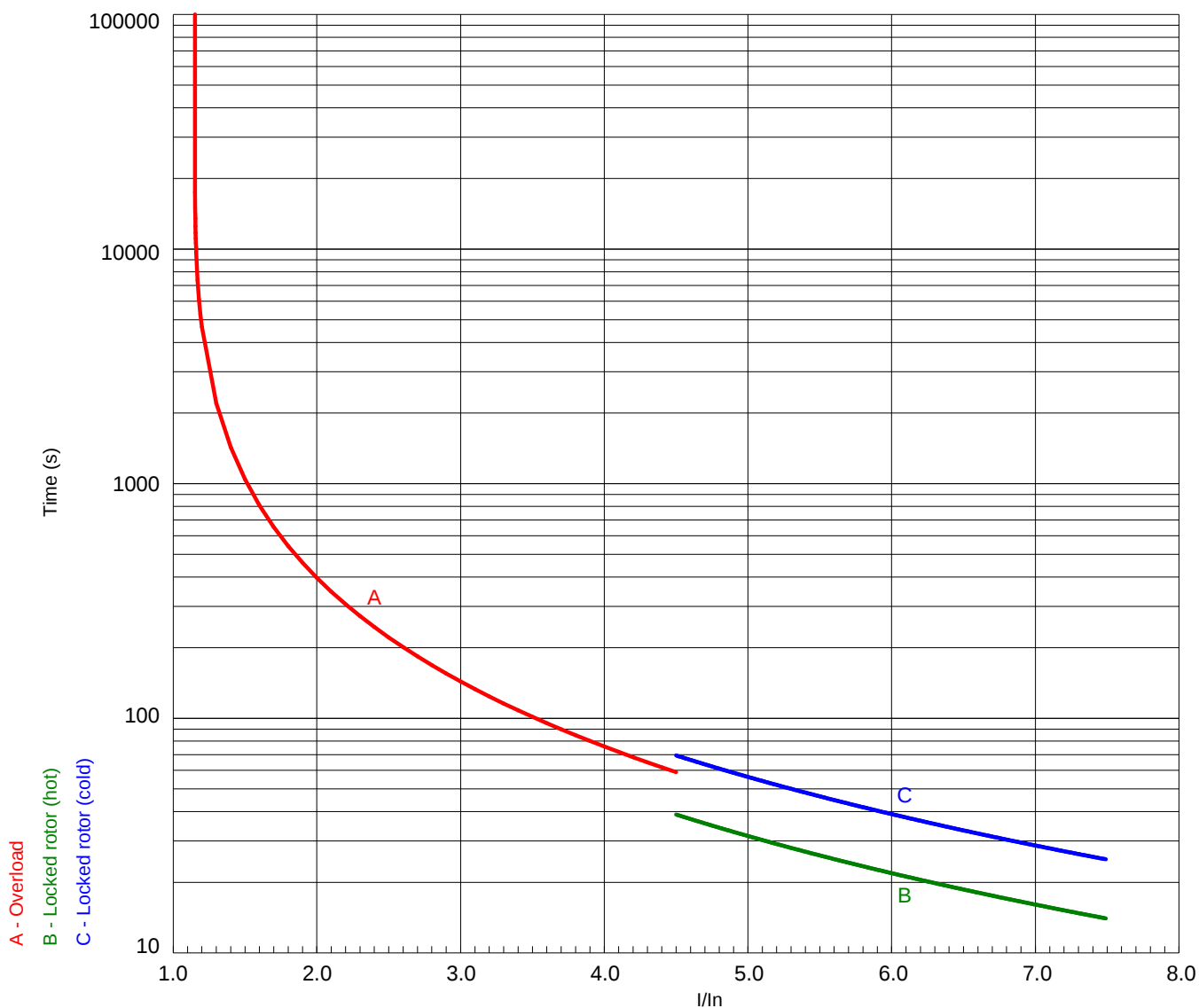
THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 380/660 V 50 Hz 4P 132S

Rated current	: 10.8/6.22 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 7.5	Duty cycle	: S1
Rated torque	: 36.0 Nm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

Heating constant	: 19.2 min
Cooling constant	: 57.7 min

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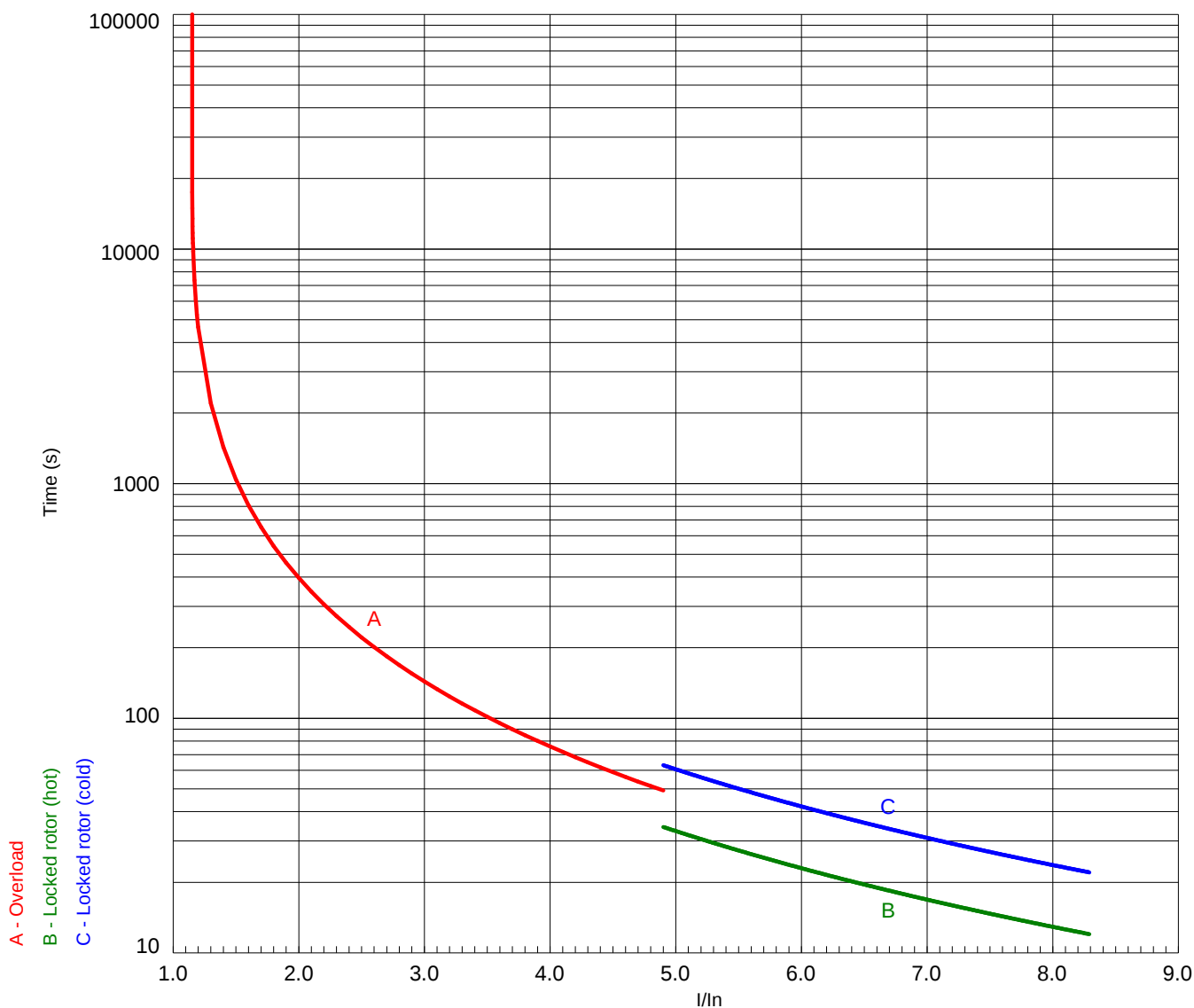
THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 400/690 V 50 Hz 4P 132S

Rated current	: 10.5/6.09 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 35.9 Nm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

Heating constant	: 19.2 min
Cooling constant	: 57.7 min

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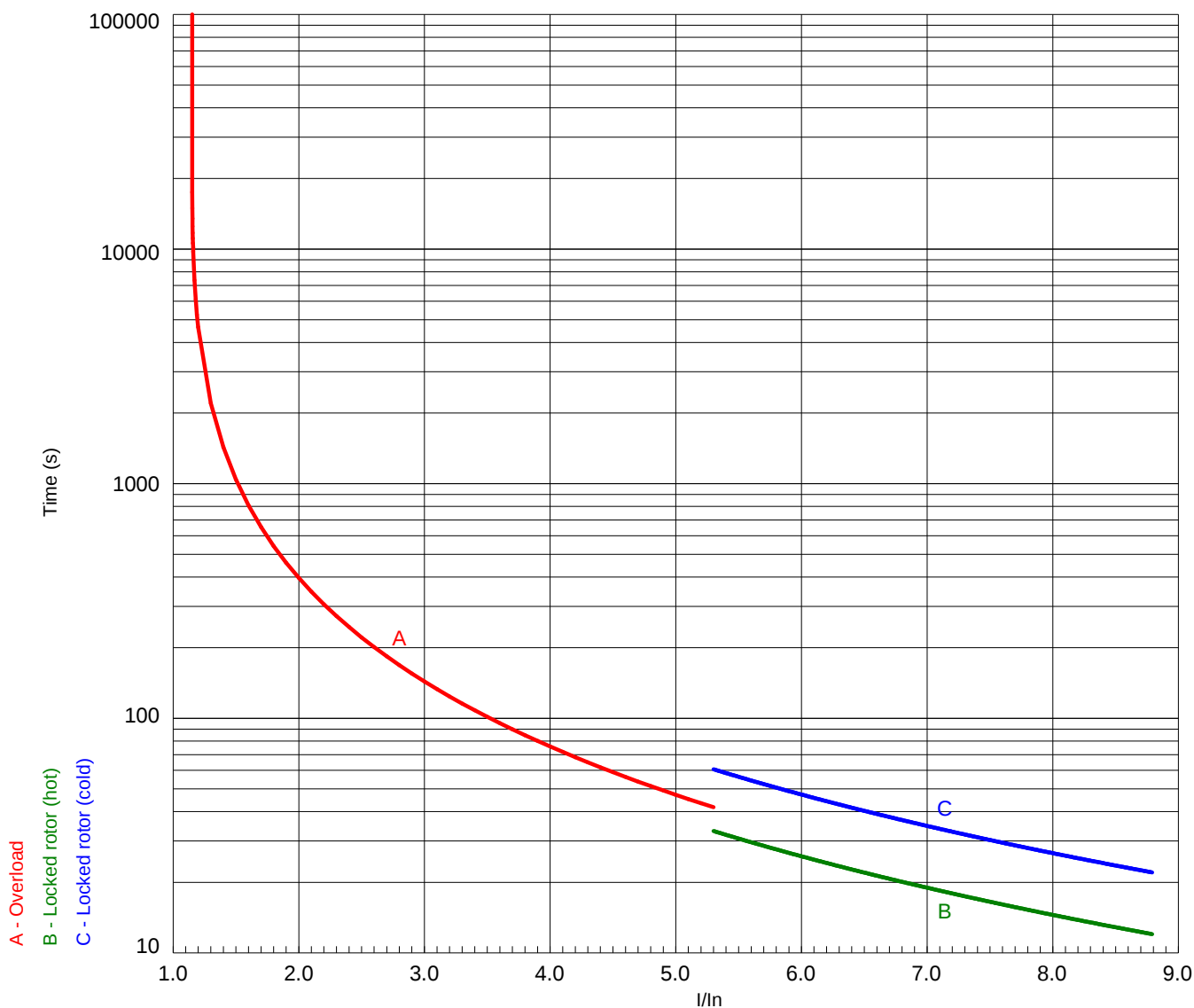
THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 415 V 50 Hz 4P 132S

Rated current	: 10.4 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.8	Duty cycle	: S1
Rated torque	: 35.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: N

Heating constant	: 19.2 min
Cooling constant	: 57.7 min

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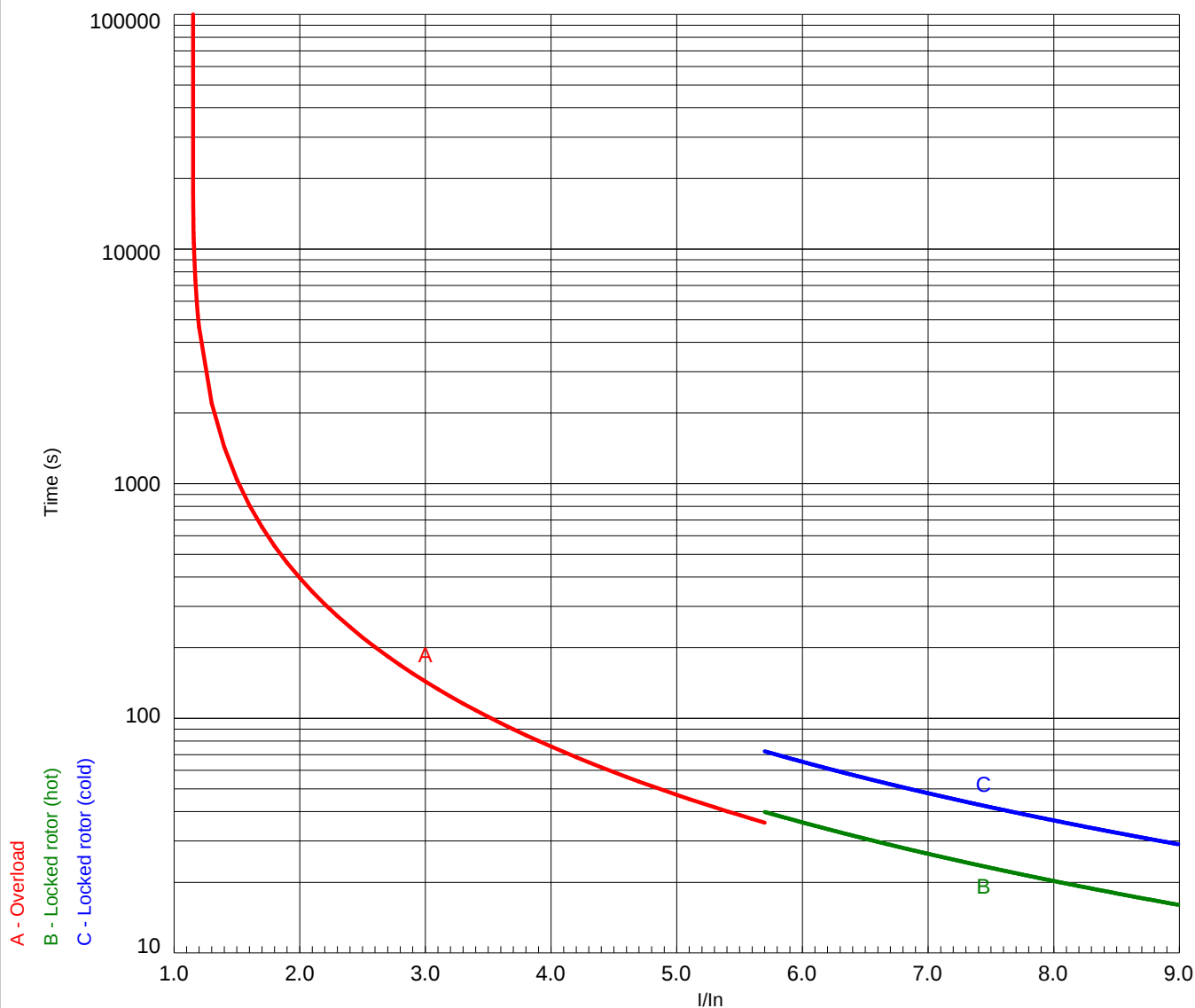
THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 460 V 60 Hz 4P 132S

Rated current	: 9.18 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 9.0 Code K	Duty cycle	: S1
Rated torque	: 29.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

Heating constant : 19.2 min
Cooling constant : 57.7 min

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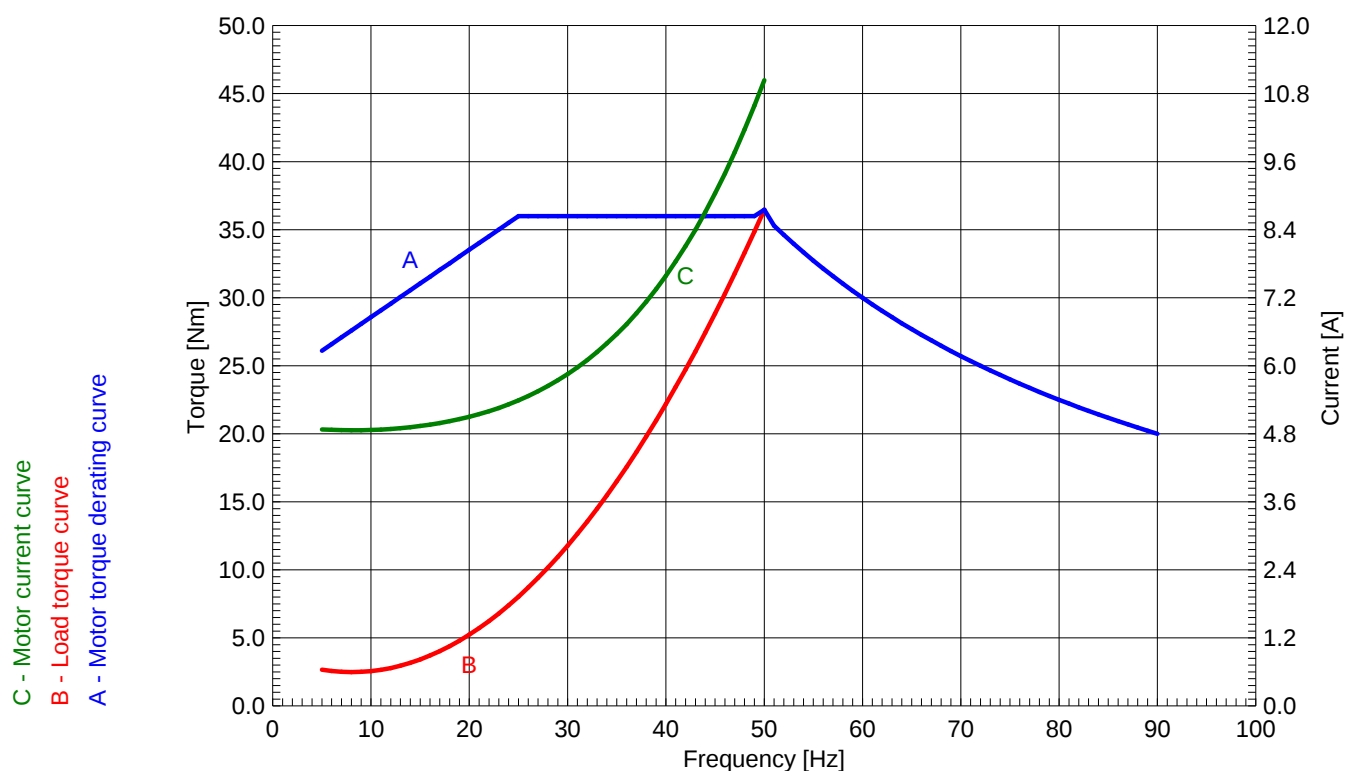
INVERTER CURVE WITH LOAD TORQUE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 380/660 V 50 Hz 4P 132S

Rated current	: 10.8/6.22 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 7.5	Duty cycle	: S1
Rated torque	: 36.0 Nm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N
Maximum absorbed power	: 5.5 kW	Maximum torque	: 36.0 Nm
Minimum frequency	: 5 Hz	Minimum speed	: 150 rpm
Maximum frequency	: 50 Hz	Maximum speed	: 1500 rpm

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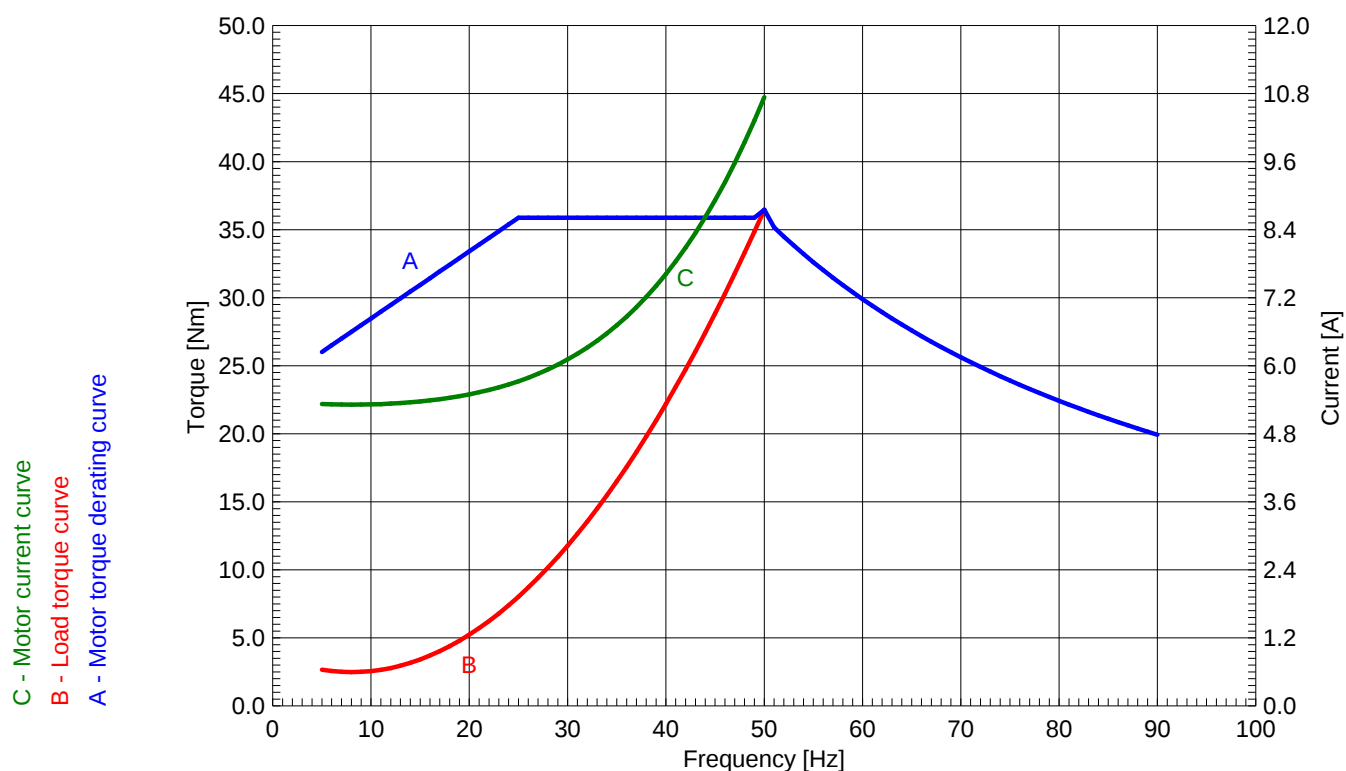
INVERTER CURVE WITH LOAD TORQUE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 400/690 V 50 Hz 4P 132S

Rated current	: 10.5/6.09 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 35.9 Nm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N
Maximum absorbed power	: 5.5 kW	Maximum torque	: 36.0 Nm
Minimum frequency	: 5 Hz	Minimum speed	: 150 rpm
Maximum frequency	: 50 Hz	Maximum speed	: 1500 rpm

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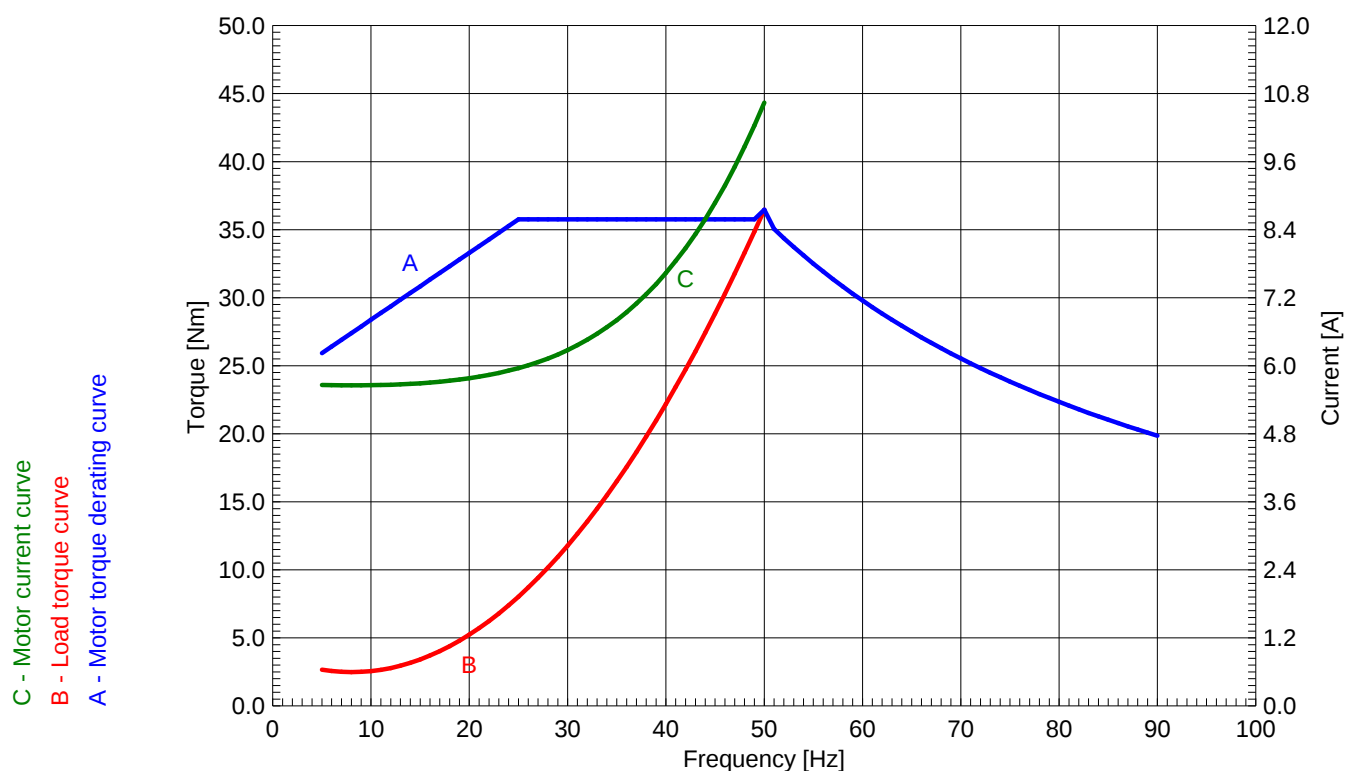
INVERTER CURVE WITH LOAD TORQUE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 415 V 50 Hz 4P 132S

Rated current	: 10.4 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.8	Duty cycle	: S1
Rated torque	: 35.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: N
Maximum absorbed power	: 5.5 kW	Maximum torque	: 36.0 Nm
Minimum frequency	: 5 Hz	Minimum speed	: 150 rpm
Maximum frequency	: 50 Hz	Maximum speed	: 1500 rpm

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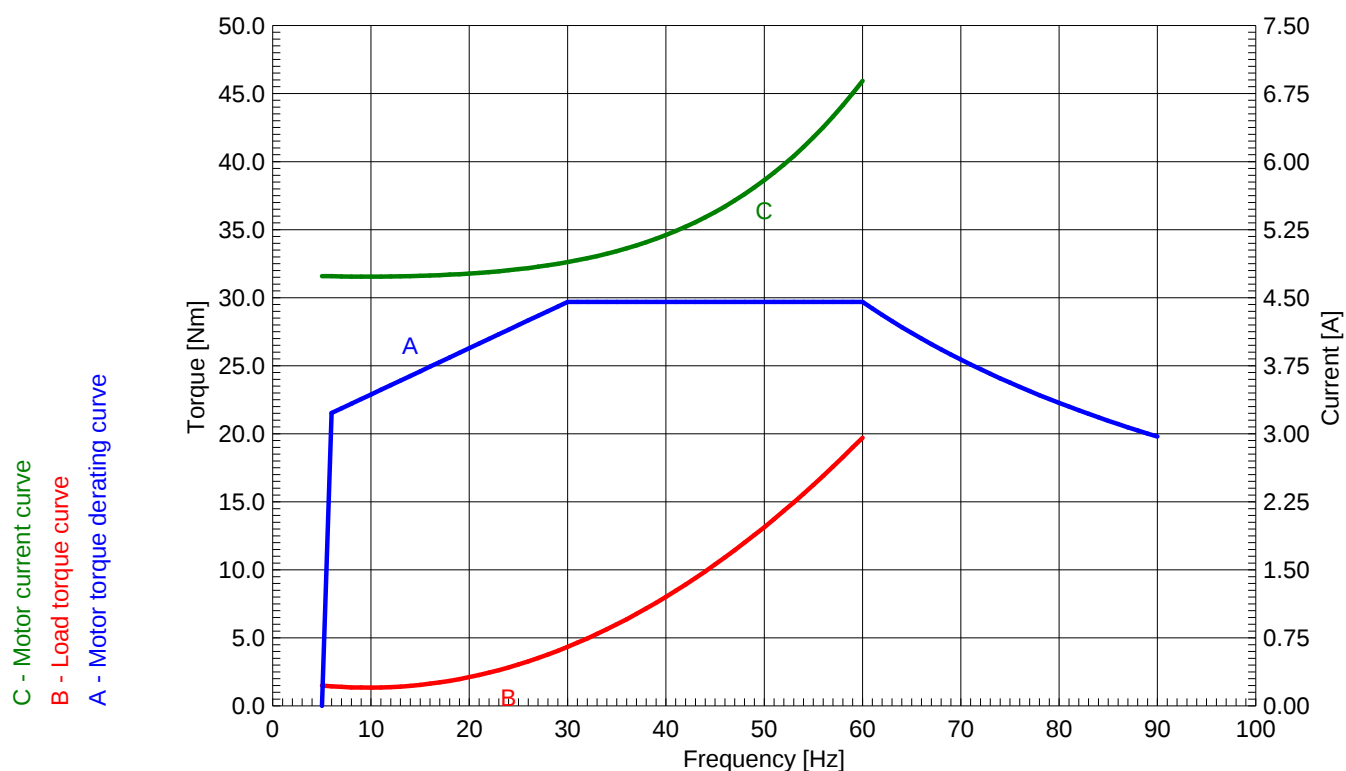
INVERTER CURVE WITH LOAD TORQUE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 460 V 60 Hz 4P 132S

Rated current	: 9.18 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 9.0 Code K	Duty cycle	: S1
Rated torque	: 29.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N
Maximum absorbed power	: 5.5 kW	Maximum torque	: 36.0 Nm
Minimum frequency	: 5 Hz	Minimum speed	: 150 rpm
Maximum frequency	: 60 Hz	Maximum speed	: 1800 rpm

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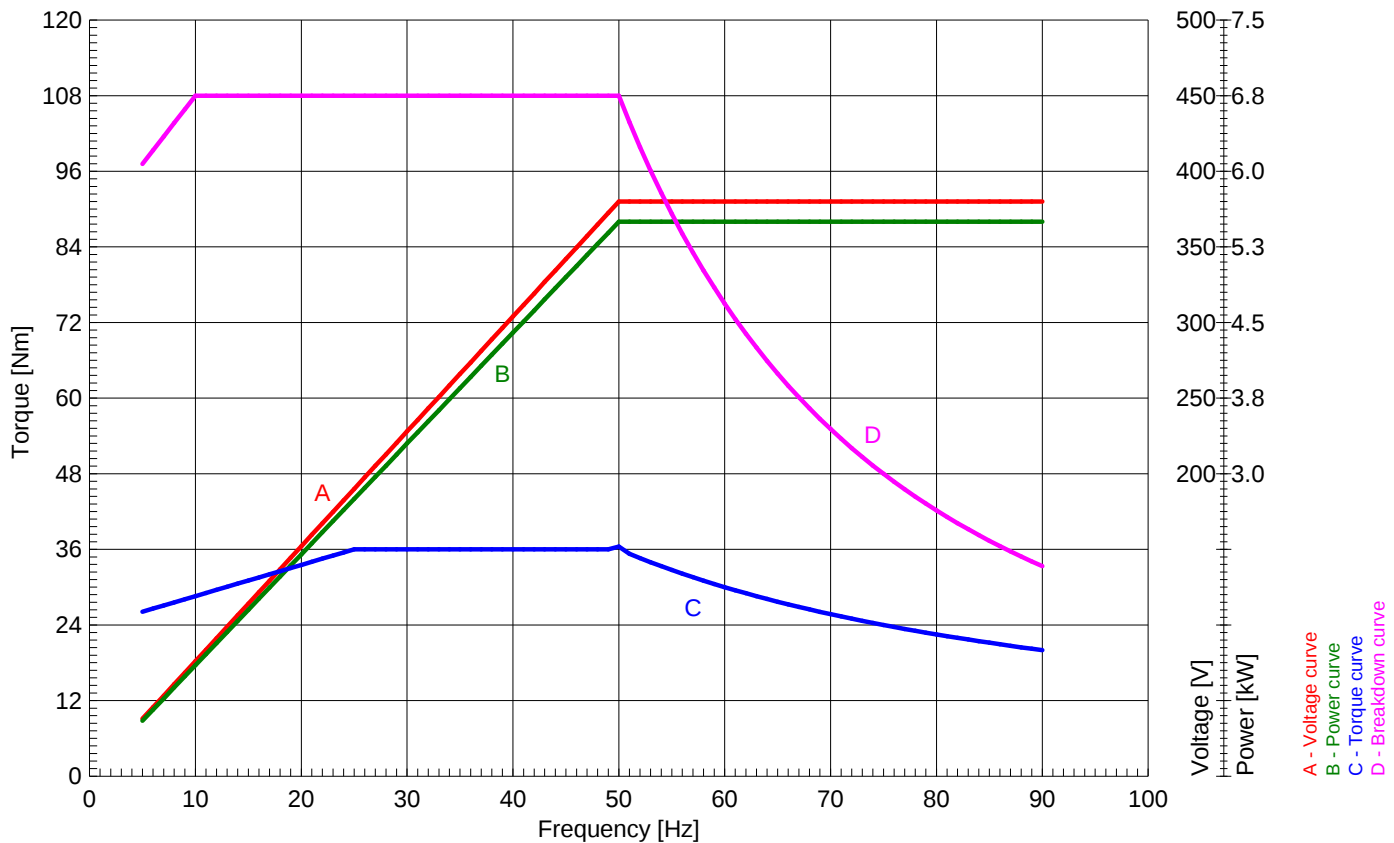
VFD OPERATION CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 380/660 V 50 Hz 4P 132S

Rated current	: 10.8/6.22 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 7.5	Duty cycle	: S1
Rated torque	: 36.0 Nm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

Operation limits with inverter	Maximum peak voltage phase-to-phase	<= 1600 V
5 Hz up to 50 Hz (Variable torque): 36.0 Nm	dV/dt	<= 5200 V/μs
	Rise time	>= 0,1 μs

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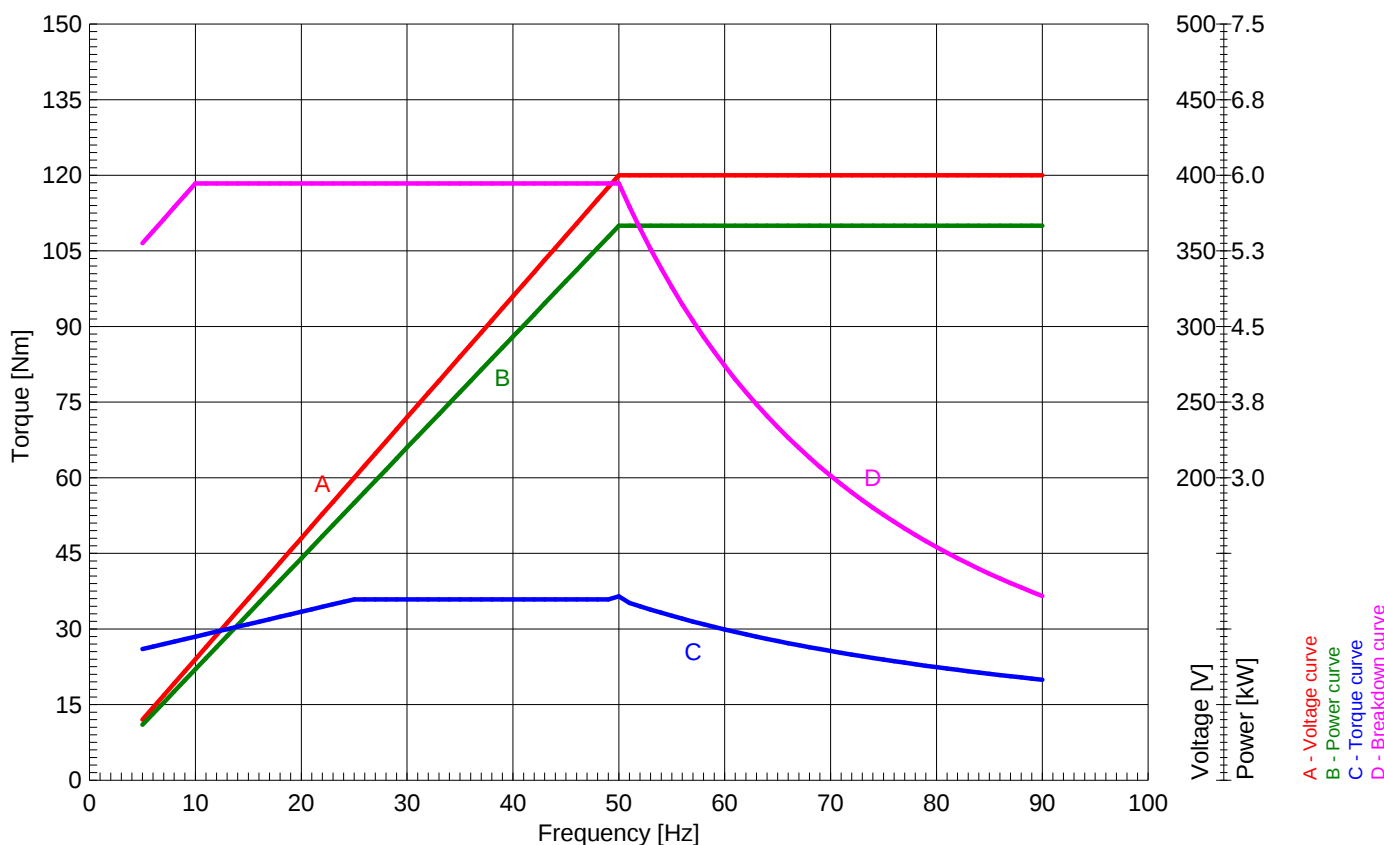
VFD OPERATION CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 400/690 V 50 Hz 4P 132S

Rated current	: 10.5/6.09 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.3	Duty cycle	: S1
Rated torque	: 35.9 Nm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

Operation limits with inverter	Maximum peak voltage phase-to-phase	<= 1600 V
5 Hz up to 50 Hz (Variable torque): 36.0 Nm	dV/dt	<= 5200 V/μs
	Rise time	>= 0,1 μs

Rev.	Summary of changes		Performed	Checked	Date
Performed by	jhodson				CI-251966/2020-A2
Checked by					Page Revision
Date	17/07/2020				20/22 0

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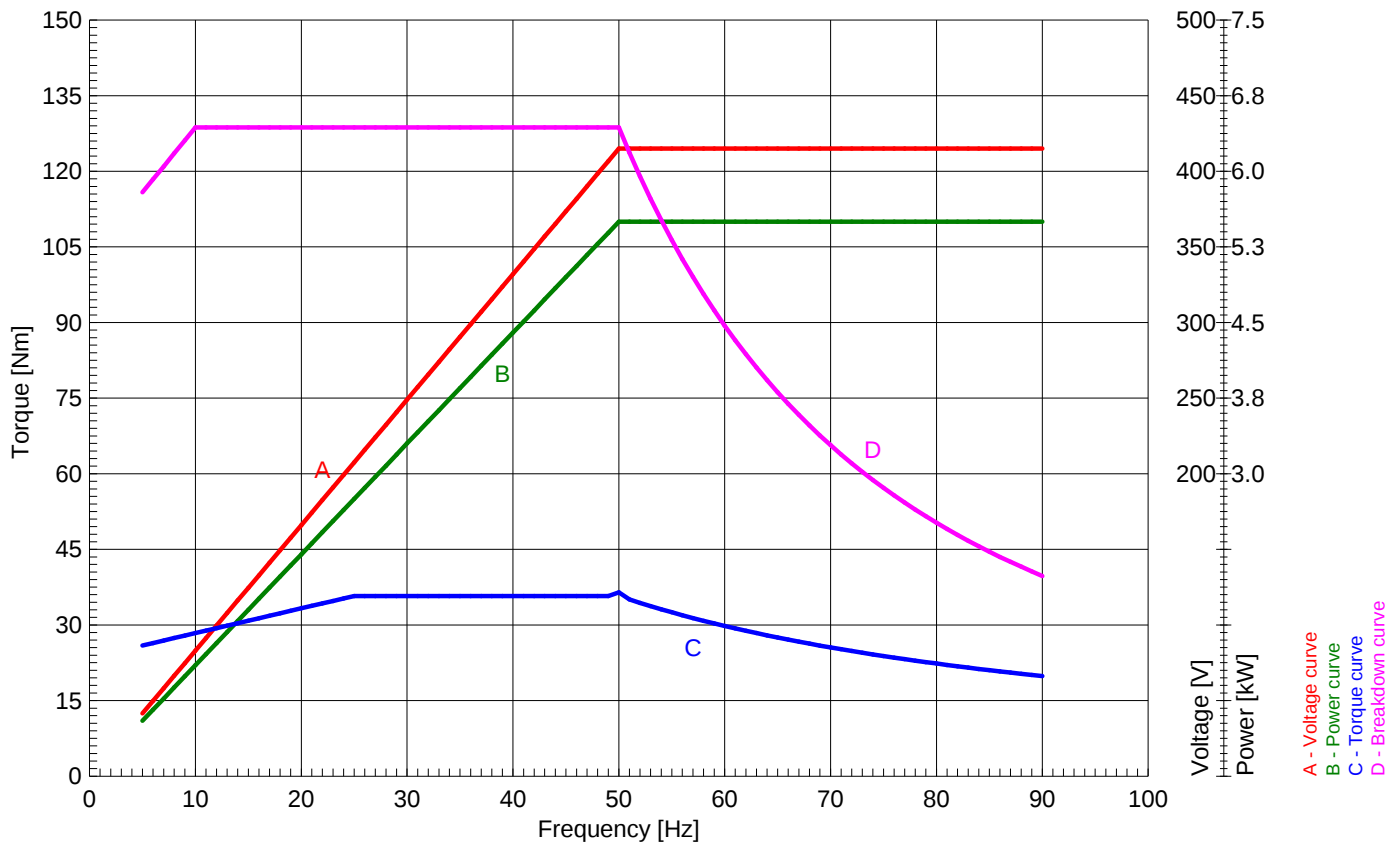
VFD OPERATION CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 415 V 50 Hz 4P 132S

Rated current	: 10.4 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 8.8	Duty cycle	: S1
Rated torque	: 35.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: N

Operation limits with inverter	Maximum peak voltage phase-to-phase	<= 1600 V
5 Hz up to 50 Hz (Variable torque): 36.0 Nm	dV/dt	<= 5200 V/μs
	Rise time	>= 0,1 μs

Rev.	Summary of changes		Performed	Checked	Date
Performed by	jhodson			CI-251966/2020-A3	
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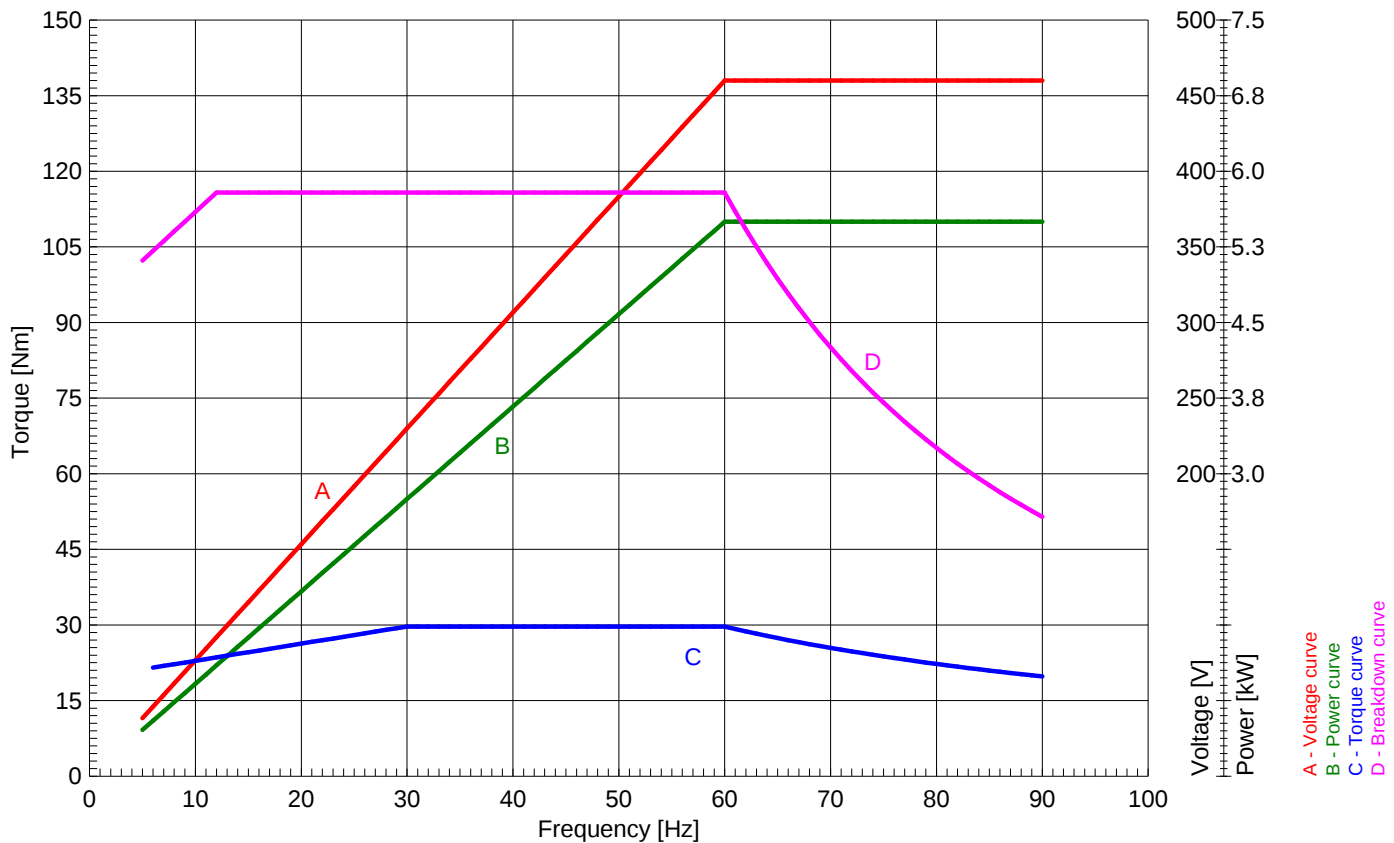
VFD OPERATION CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 - IE3 Premium Efficiency Multivoltage



Performance : 5.5 kW 460 V 60 Hz 4P 132S

Rated current	: 9.18 A	Moment of inertia (J)	: 0.0491 kgm ²
LRC (p.u.)	: 9.0 Code K	Duty cycle	: S1
Rated torque	: 29.7 Nm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

Operation limits with inverter	Maximum peak voltage phase-to-phase	<= 1600 V
5 Hz up to 50 Hz (Variable torque): 36.0 Nm	dV/dt	<= 5200 V/μs
	Rise time	>= 0,1 μs

Rev.	Summary of changes		Performed	Checked	Date
Performed by	jhodson				CI-251966/2020-T6
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