### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15839419 Frame : 100L Cooling method : IC411 - TEFC Insulation class Mounting : F : B5T Duty cycle : S1 Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 35.7 kg Protection degree : IP55 Moment of inertia (J) : 0.0090 kgm<sup>2</sup> Design : N Output [kW] 2.2 2.2 2.2 2.2 Poles 4 4 4 4 50 50 50 60 Frequency [Hz] 230/400 240/415 Rated voltage [V] 220/380 460 Rated current [A] 8.22/4.76 8.03/4.62 7.89/4.56 4.06 L. R. Amperes [A] 60.8/35.2 62.7/36.0 64.7/37.4 36.5 LRC [A] 8.2 9.0 7.4 7.8 4.50/2.60 No load current [A] 3.80/2.20 4.17/2.40 2.20 Rated speed [RPM] 1440 1745 1430 1435 Slip [%] 4.67 4.33 4.00 3.06 Rated torque [kgfm] 1.23 1.50 1.49 1.49 Locked rotor torque [%] 409 310 350 380 Breakdown torque [%] 290 340 370 400 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 28s (cold) 16s (hot) 30s (cold) 17s (hot) Locked rotor time 30s (cold) 17s (hot) 27s (cold) 15s (hot) Noise level<sup>2</sup> 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 54.0 dB(A) 25% 50% 87.2 86.5 85.7 84.0 Efficiency (%) 75% 87.1 87.0 86.8 86.5 100% 87.2 86.7 87.0 89.5 25% 50% 0.62 0.59 0.55 0.55 Power Factor 75% 0.75 0.72 0.68 0.68 100% 0.81 0.79 0.77 0.76 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.9 14.5 14.2 11.4 P2 (0,5;1,0) 13.5 13.2 12.9 10.3 P3 (0,25;1,0) 10.4 13.5 13.2 13.0 Losses (%) P4 (0,9;0,5) 6.5 6.3 6.2 4.9 P5 (0,5;0,5) 4.8 4.7 4.6 3.7 P6 (0,5;0,25) 3.0 2.9 2.9 2.3 P7 (0,25;0,25) 2.3 2.2 2.2 1.7 Drive end Non drive end Foundation loads 6206 ZZ Bearing type 6205 ZZ Max. traction : 104 kgf V'Ring Sealing V'Rina : 140 kaf Max. compression Lubrication interval Lubricant amount Lubricant type 88000 This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in IEC (1) Looking the motor from the shaft end. 60034-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/10/2025	_		1 / 19	

## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



THIOOT HA	oc madonoi	ii iviotoi	Oquillel Oage			
Customer	:					
Notes						
Notes						
Rev.		Changes Sun	nmary	Performed	Checked	Date
			-			
Performed by						1
Checked by		1			Page	Revision
Date	10/10/2025	1			2/19	

# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection
--------------------

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

Space heater information

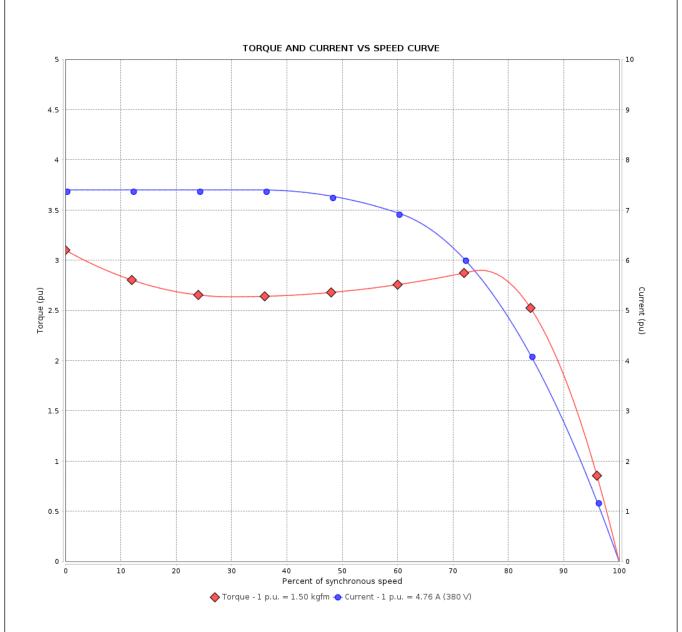
Voltage: 110 - 127 V

### Three Phase Induction Motor - Squirrel Cage



Customer		
Custoffiel		

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance	: 220/380 V 50 Hz 4P		
Rated current	: 8.22/4.76 A	Moment of inertia (J)	: 0.0090 kgm²
LRC	: 7.4	Duty cycle	: S1
Rated torque	: 1.50 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1430 rpm	Design	: N

Locked rotor time : 30s (cold) 17s (hot)

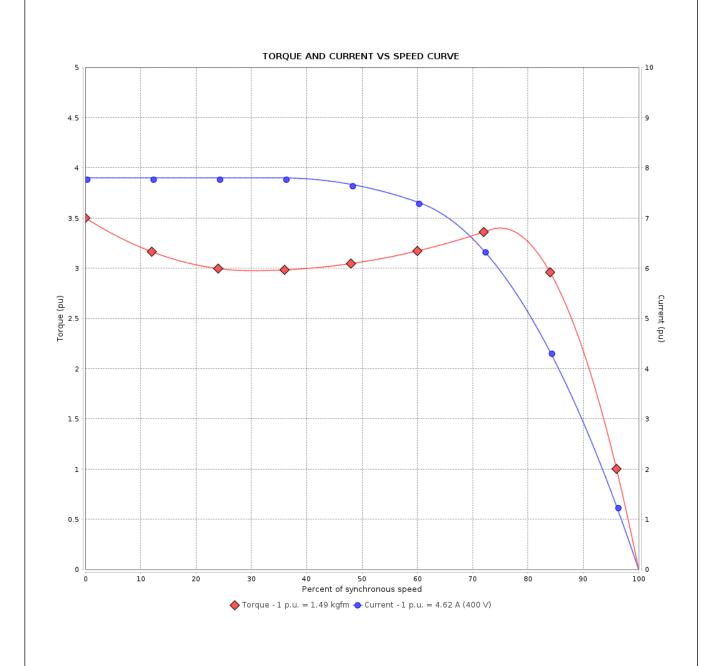
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/10/2025			4 / 19	

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance	: 230/400 V 50 Hz 4P		
Rated current	: 8.03/4.62 A	Moment of inertia (J)	: 0.0090 kgm²
LRC	: 7.8	Duty cycle	: S1
Rated torque	: 1.49 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: N

Locked rotor time : 28s (cold) 16s (hot)

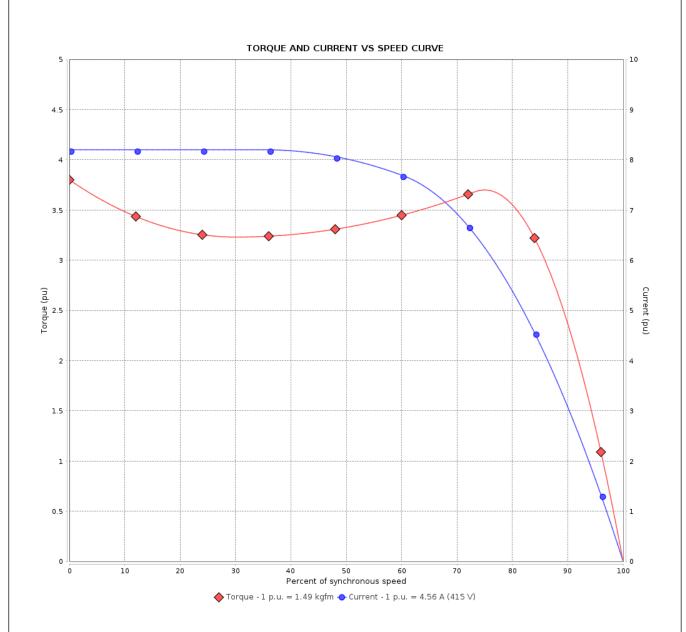
		- (			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/10/2025			5 / 19	

#### Three Phase Induction Motor - Squirrel Cage



Customer		
Custollici		

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance : 240/415 V 50 Hz 4P Rated current : 7.89/4.56 A Moment of inertia (J) : 0.0090 kgm<sup>2</sup> LRC : 8.2 Duty cycle : S1 Rated torque Insulation class : F : 1.49 kgfm : 380 % Service factor Locked rotor torque : 1.00 : 80 K Breakdown torque : 370 % Temperature rise Rated speed : N : 1440 rpm Design

Locked rotor time : 27s (cold) 15s (hot)

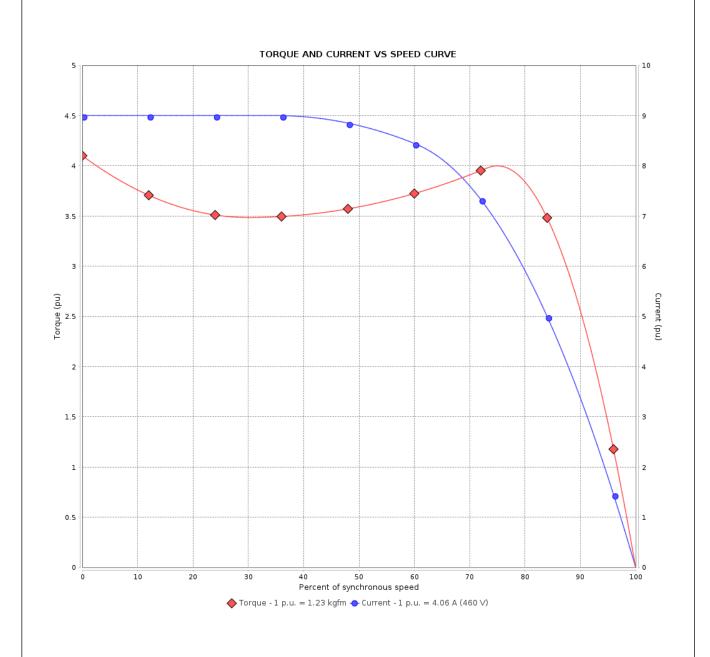
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/10/2025			6 / 19	

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance	: 460 V 60 Hz 4P			
Rated current	: 4.06 A	Moment of inertia (J)	: 0.0090 kgm²	
LRC	: 9.0	Duty cycle	: S1	
Rated torque	: 1.23 kgfm	Insulation class	: F	
Locked rotor torque	: 409 %	Service factor	: 1.00	
Breakdown torque	: 400 %	Temperature rise	: 80 K	
Rated speed	: 1745 rpm	Design	: N	

Locked rotor time : 30s (cold) 17s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/10/2025	1		7 / 19	

### Three Phase Induction Motor - Squirrel Cage



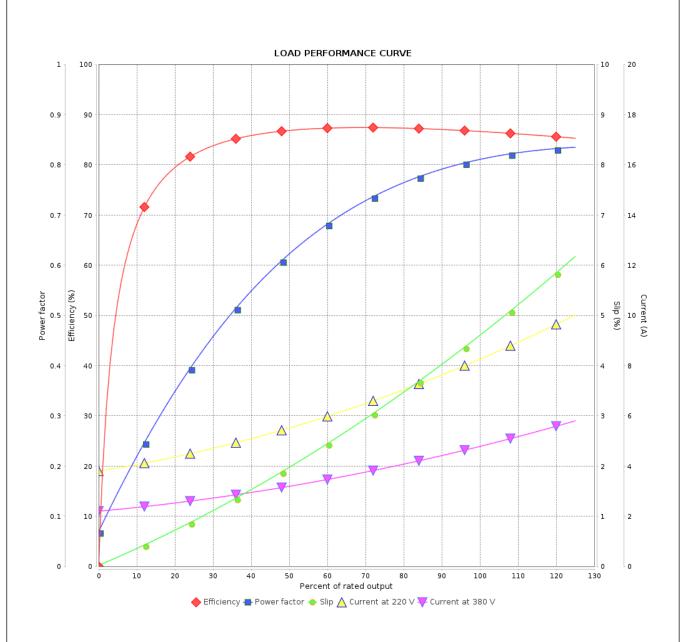
Customer :

Checked by

Date

10/10/2025

Product line : W22 IE3 Three-Phase Product code : 15839419



		·				
Performance		: 220/380 V 50 Hz 4P				
Rated current		: 8.22/4.76 A		of inertia (J)	: 0.0090 kgm²	
LRC		: 7.4	Duty cycle		: S1	
Rated torque : 1.50 kgfm		Insulation		: F		
Locked rotor torque : 310 %		Service factor : 1.00				
Breakdown torqu	ıe	: 290 %	% Temperat		: 80 K	
Rated speed		: 1430 rpm	Design		: N	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

Page

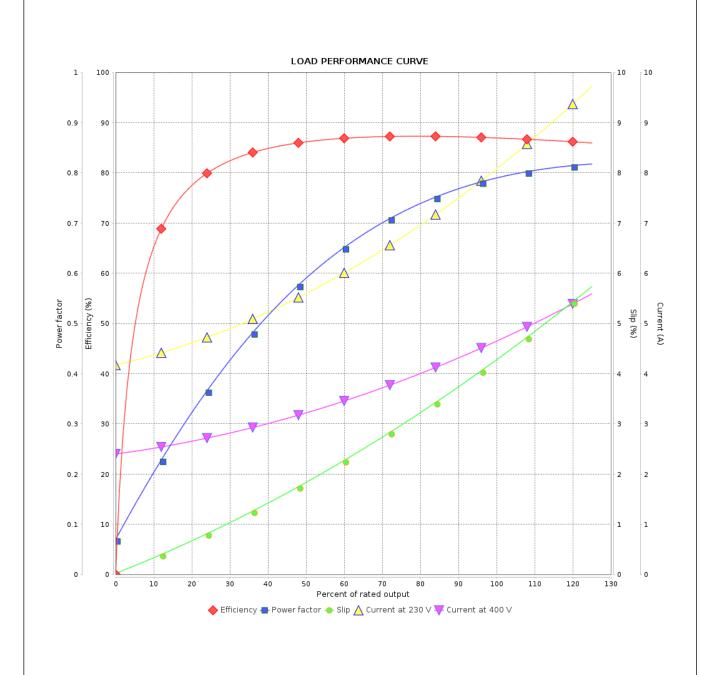
8 / 19

### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IE3 Three-Phase Product code: 15839419



Performance	: 2	230/400 V 50 Hz 4P				
Rated current	: 8	3.03/4.62 A	Moment o	f inertia (J)	: 0.0090 kgm	2
LRC	: 7	<b>'</b> .8	Duty cycle	)	: S1	
Rated torque	: 1	.49 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 3	350 % T	Service fa	ctor	: 1.00	
Breakdown torque	: 3	340 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	435 rpm	Design		: N	
Rev.		Changes Summary	\ '	Performed	Checked	Date
		1				
Performed by						
Checked by					Page	Revision
Date	10/10/2025	7			9 / 19	

### Three Phase Induction Motor - Squirrel Cage



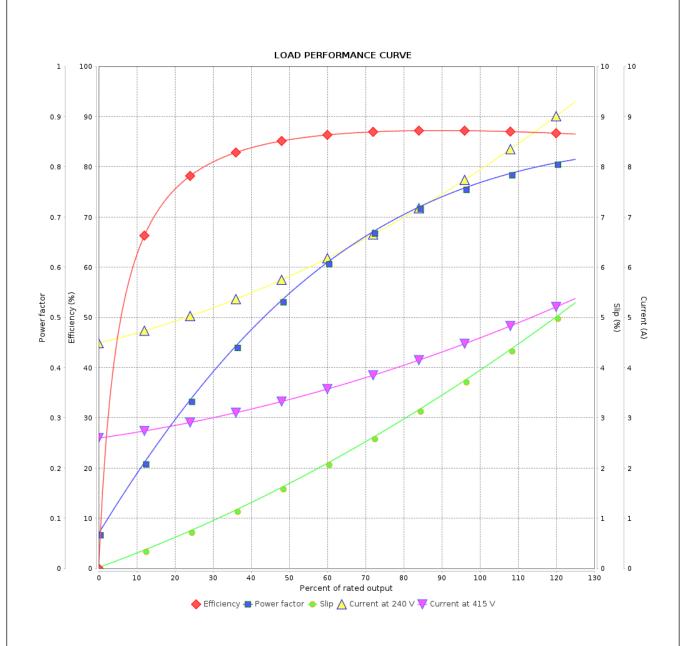
Customer :

Checked by

Date

10/10/2025

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance	: 2	240/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 1 jue : 3 ie : 3	7.89/4.56 A 3.2 1.49 kgfm 380 % 370 % 1440 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0090 kgm² : S1 : F : 1.00 : 80 K : N	
Rev.		Changes Summary	 	Performed	Checked	Date
Performed by					·	

Page

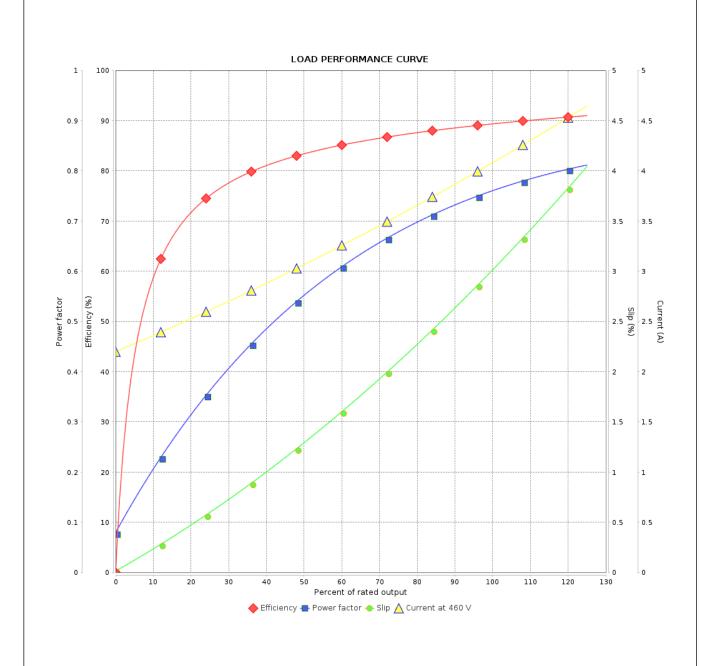
10/19

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839419



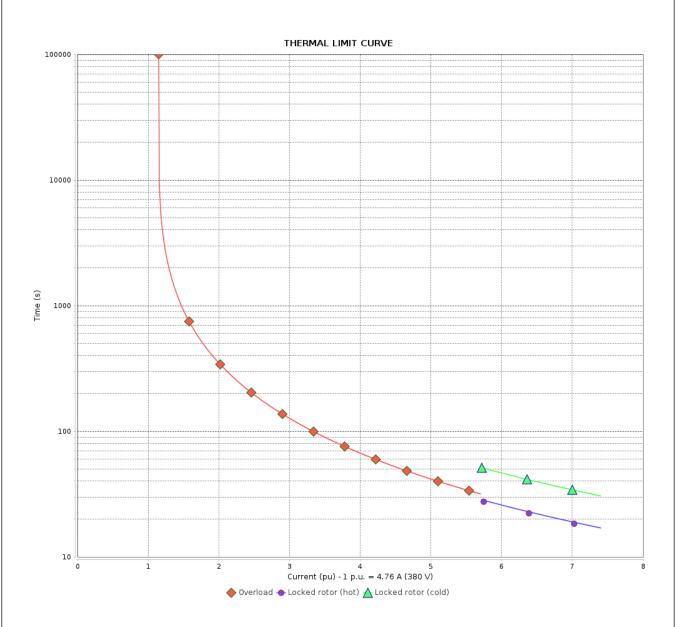
Performance	: 40	60 V 60 Hz 4P				
Rated current	: 4.	.06 A	Moment of	of inertia (J)	: 0.0090 kgm²	
LRC	: 9.	.0	Duty cycle	e	: S1	
Rated torque	: 1.	.23 kgfm	Insulation	class	: F	
Locked rotor torq	jue : 40	09 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie : 40	00 %	Temperati	ure rise	: 80 K	
Rated speed	: 17	745 rpm	Design		: N	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	10/10/2025	1			11 / 19	

#### Three Phase Induction Motor - Squirrel Cage



Customer	:		

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance : 220/380 V 50 Hz 4P Rated current : 8.22/4.76 A Moment of inertia (J) : 0.0090 kgm² **LRC** : 7.4 Duty cycle : S1 Insulation class : 1.50 kgfm : F Rated torque : 310 % : 1.00 Locked rotor torque Service factor Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1430 rpm Design Heating constant

Heating constant Cooling constant

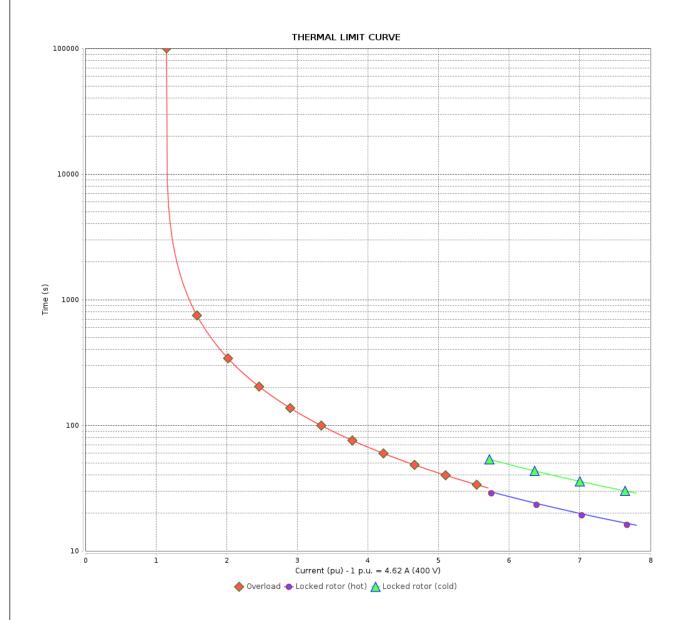
7						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	10/10/2025	1			12 / 19	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance : 230/400 V 50 Hz 4P Rated current : 8.03/4.62 A Moment of inertia (J) : 0.0090 kgm<sup>2</sup> **LRC** : 7.8 Duty cycle : S1 Insulation class : F Rated torque : 1.49 kgfm : 350 % : 1.00 Locked rotor torque Service factor Breakdown torque : 340 % : 80 K Temperature rise Rated speed : 1435 rpm Design : N Heating constant Cooling constant

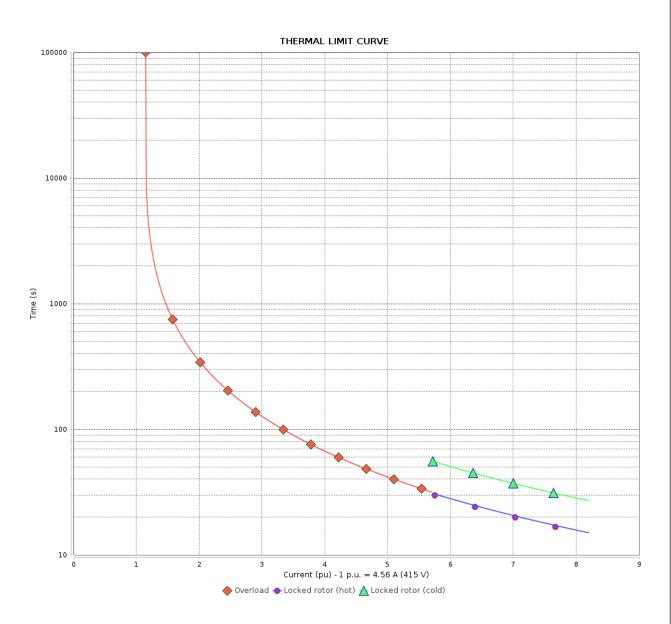
Cooling Constant	<u>-</u>				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	10/10/2025			13 / 19	

### Three Phase Induction Motor - Squirrel Cage



Customer			
Customer	•		

: W22 IE3 Three-Phase Product line Product code: 15839419



Performance	: 240/415 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 7.89/4.56 A : 8.2 : 1.49 kgfm : 380 % : 370 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.0090 kgm² : S1 : F : 1.00 : 80 K	
Rated speed	: 1440 rpm	Design	: N	
Heating constant				
Cooling constant				

Cooling constant

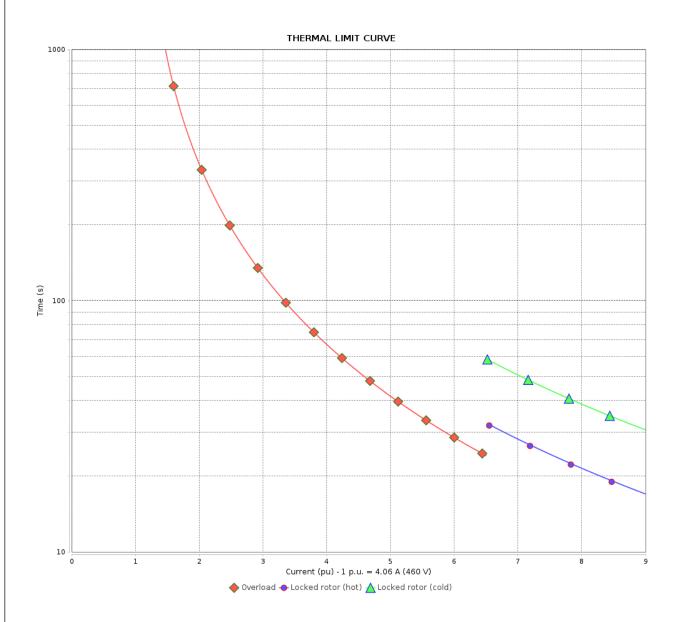
	=					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	10/10/2025	1			14 / 19	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839419



: 460 V 60 Hz 4P Performance Rated current : 4.06 A Moment of inertia (J) : 0.0090 kgm<sup>2</sup> **LRC** : 9.0 Duty cycle : S1 Insulation class : F Rated torque : 1.23 kgfm : 409 % Locked rotor torque Service factor : 1.00 Breakdown torque : 400 % : 80 K Temperature rise Rated speed : 1745 rpm Design : N Heating constant

Cooling constant

Rev. Changes Summary Performed Checked Date

Performed by

 Checked by
 Page
 Revision

 Date
 10/10/2025
 15 / 19

### Three Phase Induction Motor - Squirrel Cage



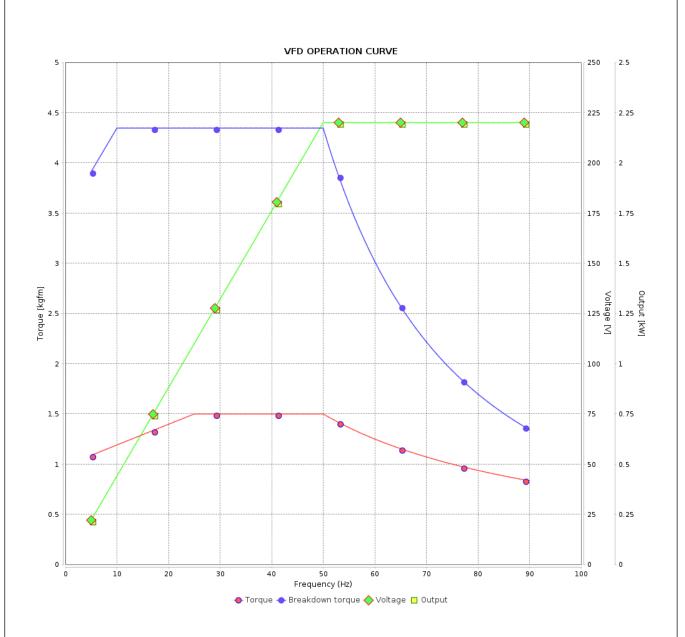
Customer	

Checked by

Date

10/10/2025

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance	:	220/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : :	8.22/4.76 A 7.4 1.50 kgfm 310 % 290 % 1430 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0090 kgm² : S1 : F : 1.00 : 80 K : N	
Rev.		Changes Summary		Performed	Checked	Date
Performed by					·	

Page

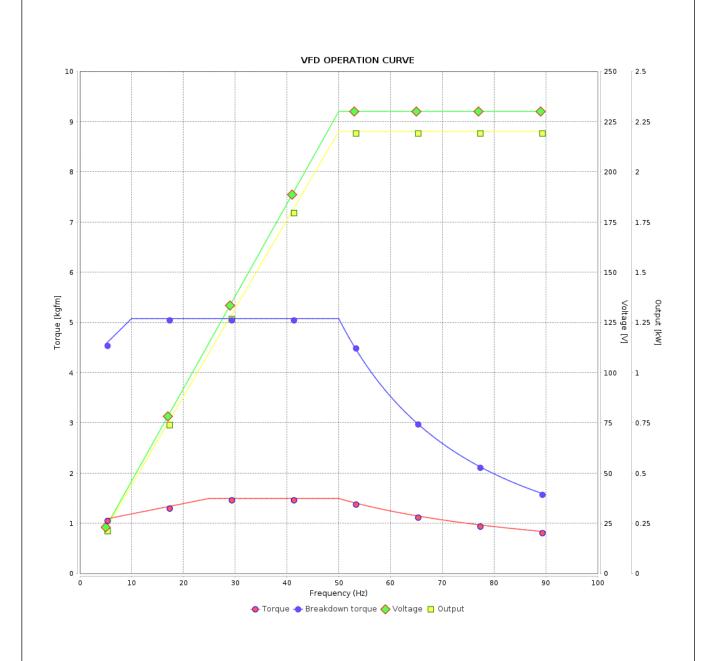
16/19

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance	: 23	30/400 V 50 Hz 4P				
Rated current : 8.		03/4.62 A	Moment of	Moment of inertia (J)		2
LRC : 7.8		8	Duty cycle	Duty cycle		
Rated torque : 1.		49 kgfm	Insulation class		: F	
		50 %	Service factor		: 1.00	
Breakdown torque : 3		40 %	Temperature rise		: 80 K	
Rated speed	: 14	1435 rpm Design		: N		
Rev.		Changes Summary	I	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	10/10/2025				17 / 19	

### Three Phase Induction Motor - Squirrel Cage



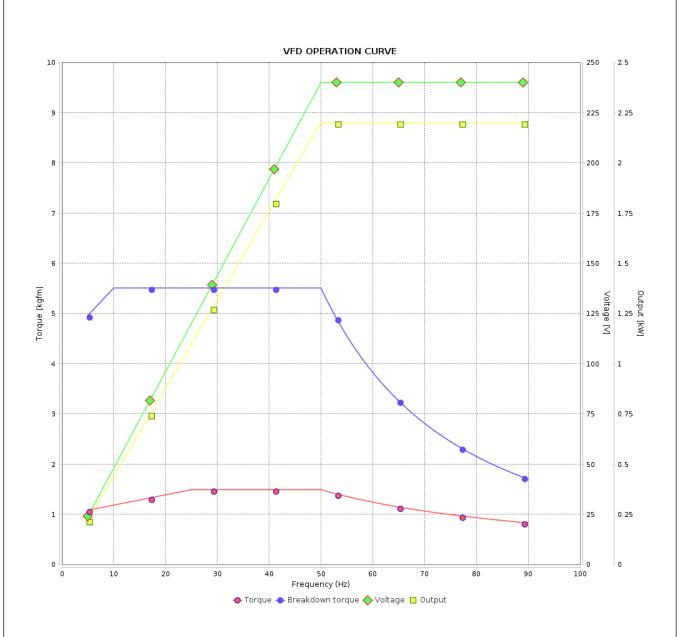
Customer :

Checked by

Date

10/10/2025

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance	:	240/415 V 50 Hz 4F	•			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	:  ue :  le :	7.89/4.56 A 8.2 1.49 kgfm 380 % 370 % 1440 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0090 kgm² : S1 : F : 1.00 : 80 K : N	
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						

Page

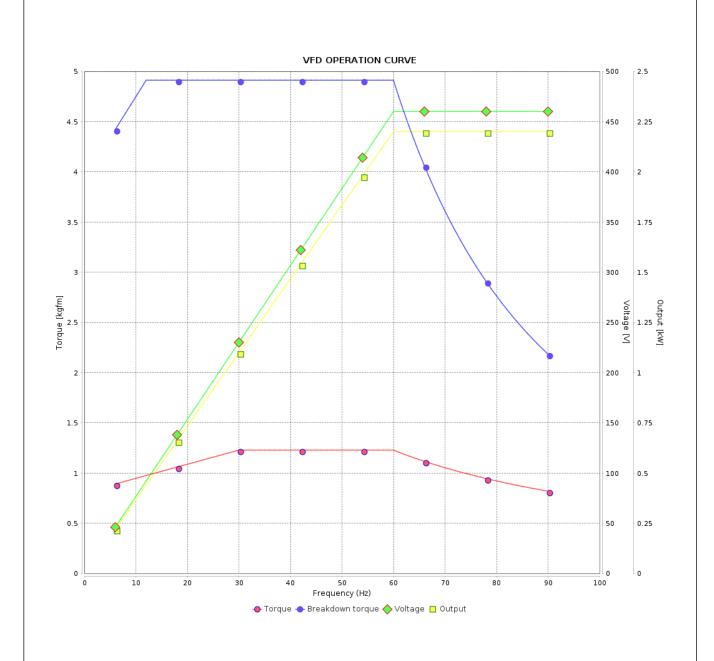
18 / 19

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839419



Performance	:	: 460 V 60 Hz 4P					
Rated current	:	Moment of inertia (J)		: 0.0090 kgm²			
LRC		9.0	Duty cycle		: S1		
Rated torque		1.23 kgfm	Insulation class		: F		
Locked rotor torque		409 %	Service factor		: 1.00		
Breakdown torque	:	400 %	Temperature rise		: 80 K		
Rated speed	:	1745 rpm	Design		: N		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	10/10/2025				19 / 19		