DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W12 IE2 Three-Phase Product code : 16435513

Frame : 71

Output : 0.25 kW (0.33 HP)

 Poles
 : 4

 Frequency
 : 50 Hz

 Rated voltage
 : 230/400 V

 Rated current
 : 1.26/0.722 A

 L. R. Amperes
 : 7.41/4.26 A

LRC : 5.9

No load current : 1.05/0.603 A
Rated speed : 1455 rpm
Slip : 3.00 %
Rated torque : 1.64 Nm

Locked rotor torque : 240 %
Breakdown torque : 320 %
Insulation class : F
Service factor : 1.00

Moment of inertia (J) : 0.0020 kgm²

Design : N

Output	50%	75%	100%
Efficiency (%)	64.0	68.5	68.5
Power Factor	0.51	0.63	0.73

Product code . 1043551.

Locked rotor time : 43s (cold) 24s (hot)
Temperature rise : 80 K
Duty cycle : S1

Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Protection degree : IP55

Cooling method : IC411 - TEFC

Mounting : B34T

Rotation¹ : Both (CW and CCW)

Noise level² : 47.0 dB(A) Starting method : Direct On Line

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
51.1	37.6	38.7	40.8	25.9	24.8	15.6

Notes:

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

(1) Looking the motor from the shaft end.

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

(4) At 100% of full load.

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

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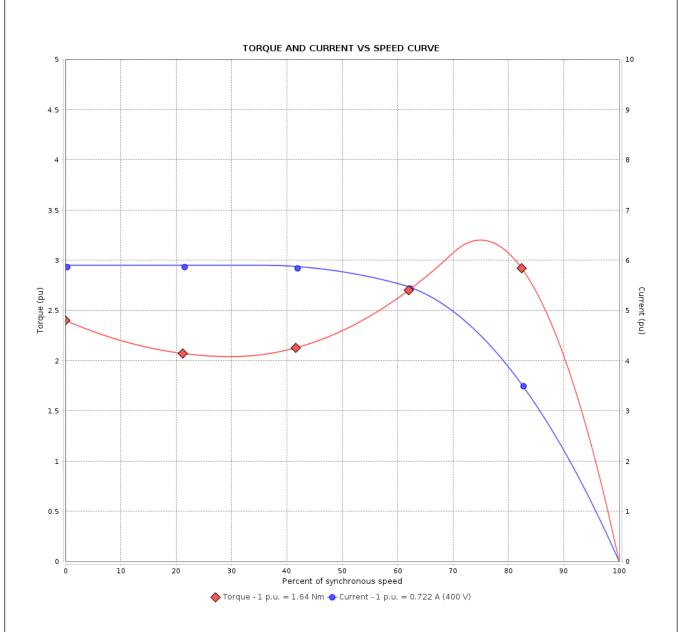
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer	

Product line : W12 IE2 Three-Phase Product code : 16435513



Performance	: 230/400 V 50 Hz 4P		
Rated current	: 1.26/0.722 A	Moment of inertia (J)	: 0.0020 kgm²
LRC	: 5.9	Duty cycle	: S1
Rated torque	: 1.64 Nm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: N

Locked rotor time : 43s (cold) 24s (hot)

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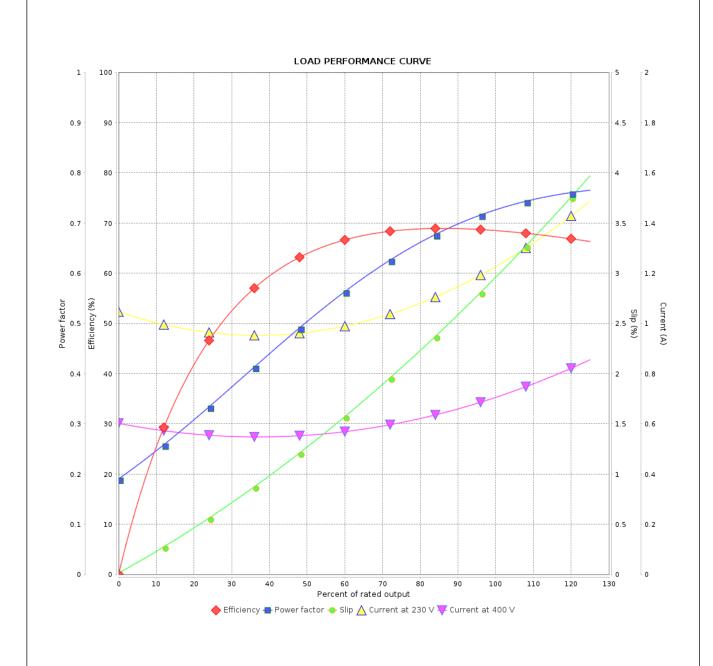
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W12 IE2 Three-Phase Product code : 16435513



Performance	: 23	30/400 V 50 Hz 4P					
Rated current LRC	: 1 : 5	.26/0.722 A .9			: 0.0020 kgm² : S1		
Rated torque Locked rotor torc		.64 Nm 40 %	Insulation class Service factor				
Breakdown torqu Rated speed		20 % 455 rpm	Temperati Design	ure rise	: 80 K : N		
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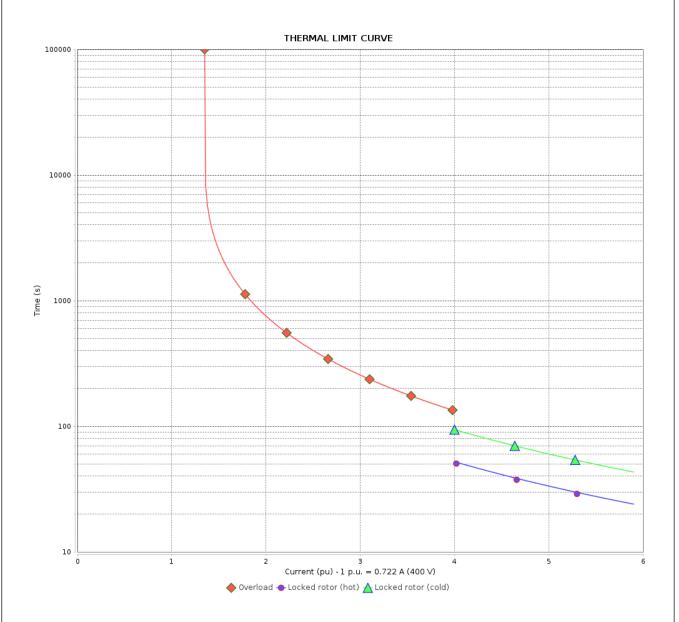
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer	
Custoffici	

Product line : W12 IE2 Three-Phase Product code : 16435513



Performance	: 230/400 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.26/0.722 A : 5.9 : 1.64 Nm : 240 % : 320 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0020 kgm² : S1 : F : 1.00 : 80 K : N
Heating constant			

Heating	constant
Cooling	constant

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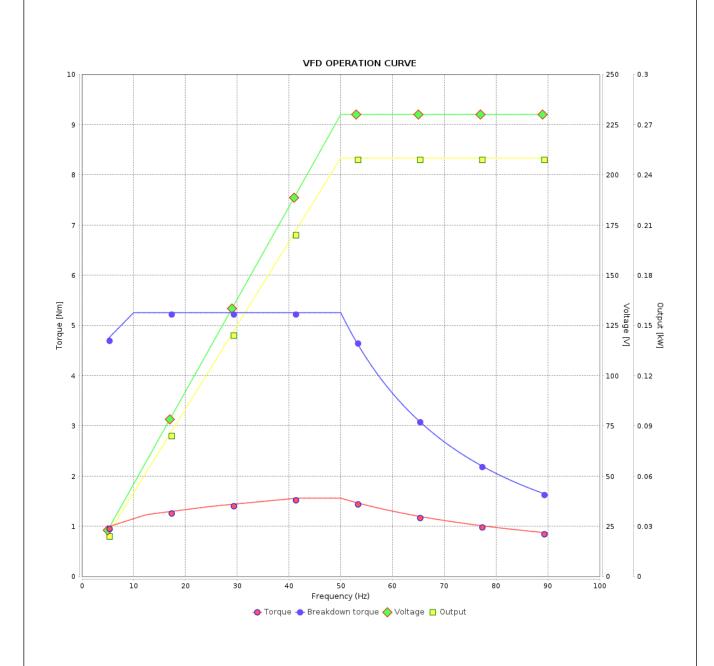
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W12 IE2 Three-Phase Product code : 16435513



Performance	: 23	30/400 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 5.9 Duty cycle d torque : 1.64 Nm Insulation class ed rotor torque : 240 % Service factor kdown torque : 320 % Temperature rise		: 5.9 : 1.64 Nm que : 240 %		: 0.0020 kgm² : S1 : F : 1.00 : 80 K	
Rated speed	: 14	455 rpm	Design		: N	
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