DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:			
Product line		: ODP Hig	h Efficiency Three-l	Phase Product code :	13043433
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 213/5T : 5 HP (3.7 : 6 : 60 Hz : 208-230/ : 16.1-14.5 : 96.5-87.2 : 6.0x(Cod : 6.90-8.00 : 1160 rpm : 3.33 % : 30.3 Nm : 160 % : 220 % : F : 1.15 : 0.0426 kg	460 V 5/7.27 A 2/43.6 A le H) 0/4.00 A	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 43s (cold) 24s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP21 : IC01 - ODP : F-1 : Both (CW and CCW) : 59.0 dB(A) : Direct On Line : 48.0 kg
Output Efficiency (%) Power Factor	50% 86.5 0.54	75% 87.5 0.67	100% 87.5 0.73	Foundation loads Max. traction Max. compression	: 1275 N : 1746 N
Bearing type Sealing Lubrication interva Lubricant amount Lubricant type	I	: : Wit	Drive end 6208 ZZ hout Bearing Seal - -	<u>Non drive enc</u> 6206 ZZ Without Bearing - - bil Polyrex EM	_

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).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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

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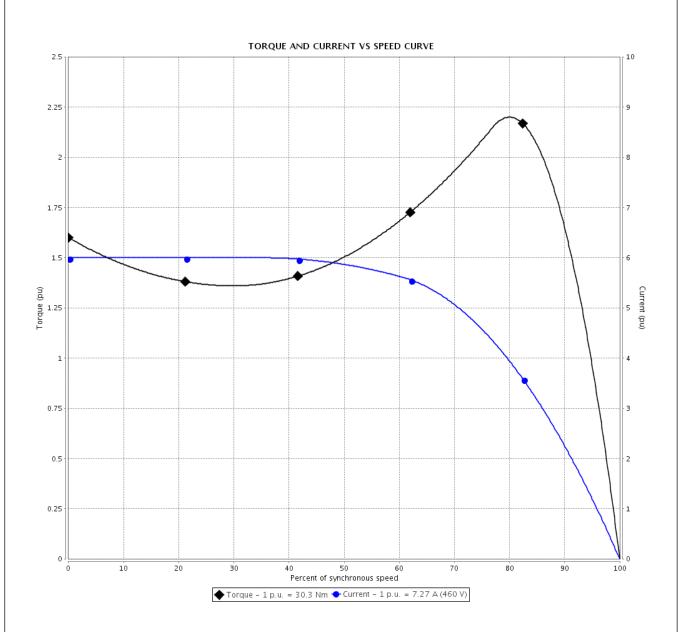
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



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Customer	
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Product line : ODP High Efficiency Three-Phase Product code : 13043433



Performance	: 208-230/460 V 60 Hz 6P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 16.1-14.5/7.27 A : 6.0 : 30.3 Nm : 160 % : 220 % : 1160 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0426 kgm² : Cont.(S1) : F : 1.15 : 80 K : B

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

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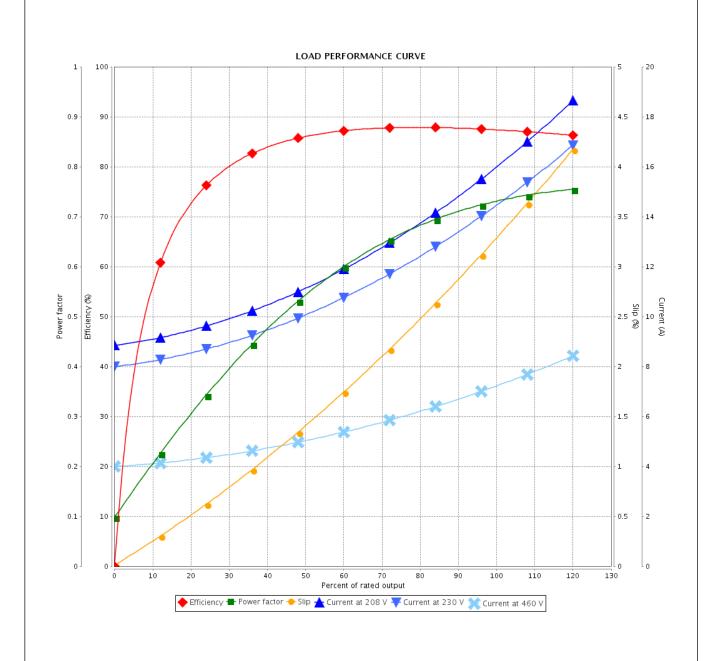
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 13043433



Performance	: 20	08-230/460 V 60 Hz 6	P			
LRC : 6 Rated torque : 3 Locked rotor torque : 1		0.3 Nm 60 %	Duty cycle Insulation class Service factor		: 0.0426 kgm² : Cont.(S1) : F : 1.15	
Breakdown torque : 220 % Rated speed : 1160		20 % 160 rpm	Temperati Design	ure rise	: 80 K : B	
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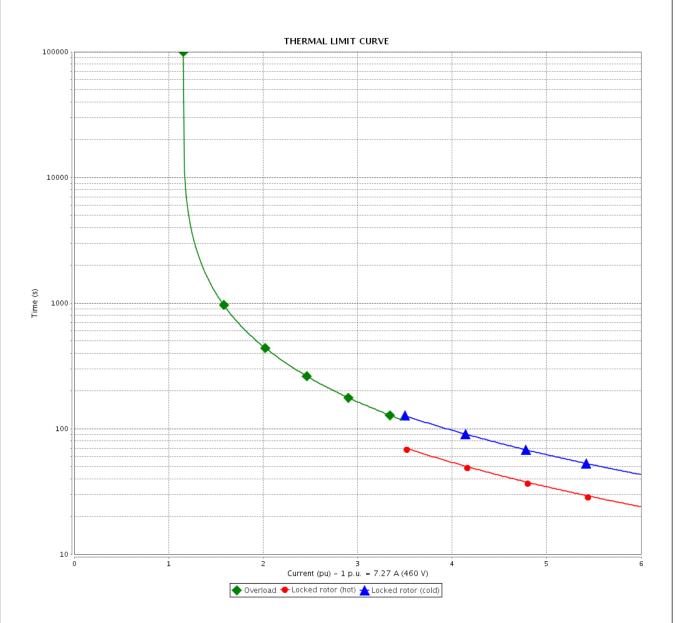
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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Customer	
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Product line : ODP High Efficiency Three-Phase Product code : 13043433



Performance	: 208-230/460 V 60 Hz 6P			
Rated current	: 16.1-14.5/7.27 A	Moment of inertia (J)	: 0.0426 kgm²	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 30.3 Nm	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.15	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 1160 rpm	Design	: B	
Heating constant				
Cooling constant				

Cooling constant					
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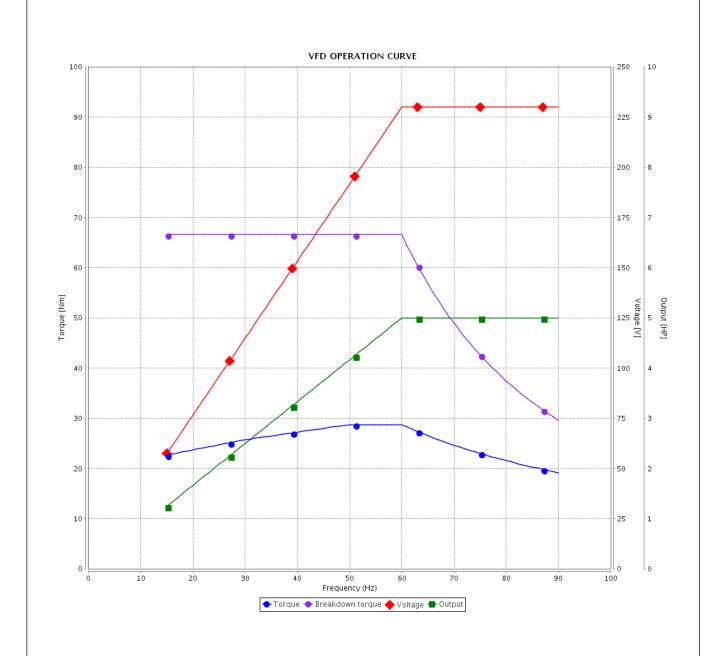
VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : ODP High Efficiency Three-Phase Product code : 13043433



Performance	: 20	08-230/460 V 60 Hz 6	SP .			
Rated current : 16.1-14.5/7.27 A		Moment of	Moment of inertia (J)			
LRC	: 6.	0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 30).3 Nm	Insulation	class	: F	
Locked rotor torq	ue : 16	60 %	Service fa	actor	: 1.15	
Breakdown torque : 220 % Ten		Temperat	Temperature rise			
Rated speed : 1160 r		160 rpm	Design		: B	
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