

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: W21 PUMP/FILTER Three-Phase		Product code : 11753074
Frame	: 250S/M	Locked rotor time	: 28s (cold) 16s (hot)	
Output	: 55 kW	Temperature rise	: 80 K	
Poles	: 4	Duty cycle	: S1	
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 98.3/56.6 A	Protection degree	: IP55	
L. R. Amperes	: 688/396 A	Cooling method	: IC411 - TEFC	
LRC	: 7.0	Mounting	: B3T	
No load current	: 27.0/15.5 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1475 rpm	Noise level ²	: 70.0 dB(A)	
Slip	: 1.67 %	Starting method	: Direct On Line	
Rated torque	: 36.3 kgfm	Approx. weight ³	: 505 kg	
Locked rotor torque	: 210 %			
Breakdown torque	: 240 %			
Insulation class	: F			
Service factor	: 1.00			
Moment of inertia (J)	: 0.9471 kgm ²			
Design	: N			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	92.0	93.0	93.1	Max. traction : 639 kgf
Power Factor	0.82	0.87	0.90	Max. compression : 1144 kgf
		<u>Drive end</u>		<u>Non drive end</u>
Bearing type	:	6314 C3		6314 C3
Sealing	:	Lip Seal		Lip Seal
Lubrication interval	:	11638 h		11638 h
Lubricant amount	:	27 g		27 g
Lubricant type	:	Mobil 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 IEC 60034-1.				
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by				
Date	21/11/2018			
			Page	Revision
			1 / 4	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 4	
Date	21/11/2018				

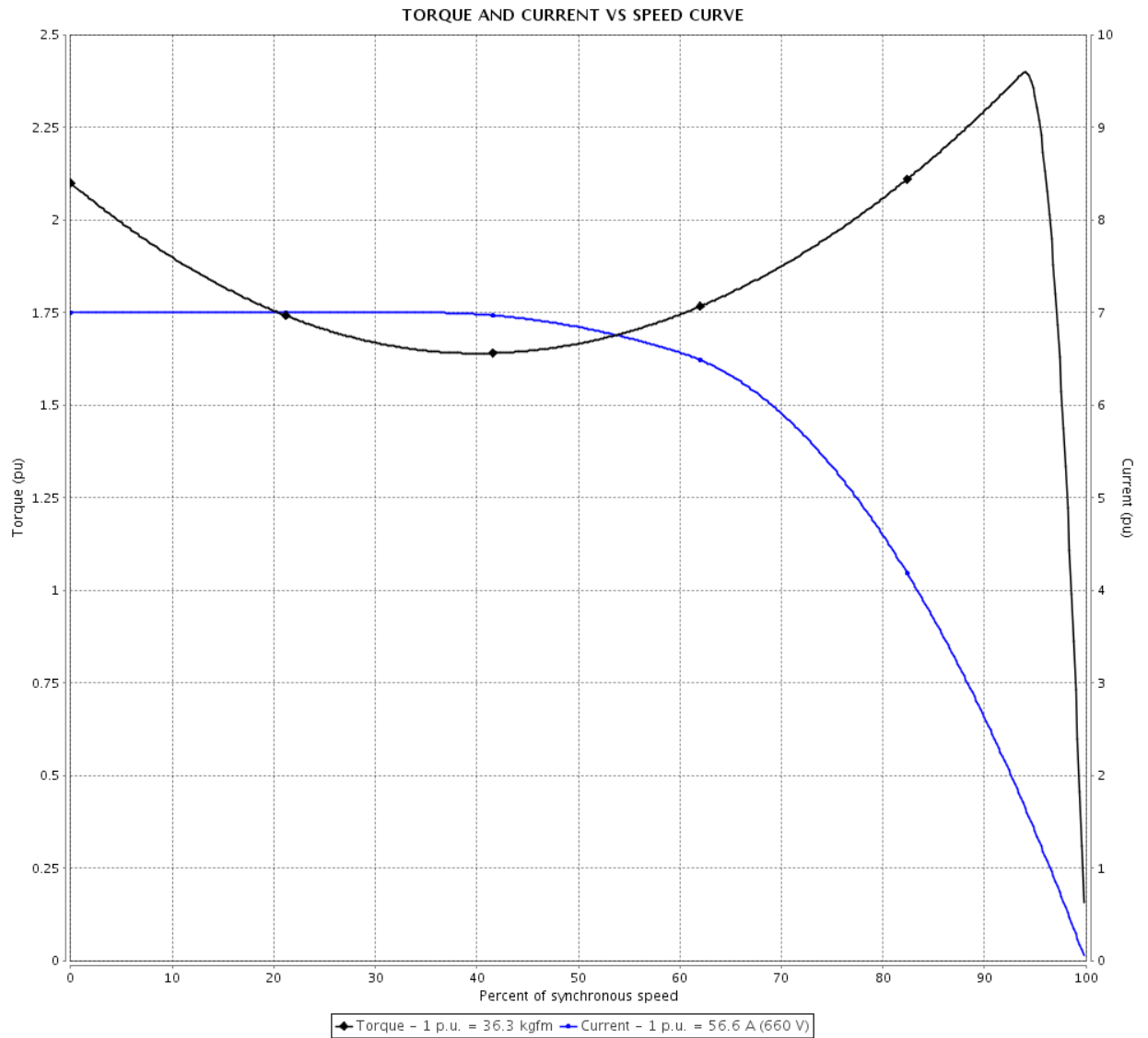
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 PUMP/FILTER Three-Phase Product code : 11753074



Performance : 380/660 V 50 Hz 4P

Rated current	: 98.3/56.6 A	Moment of inertia (J)	: 0.9471 kgm ²
LRC	: 7.0	Duty cycle	: S1
Rated torque	: 36.3 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: N

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 4Revision		
Checked by				
Date	21/11/2018			

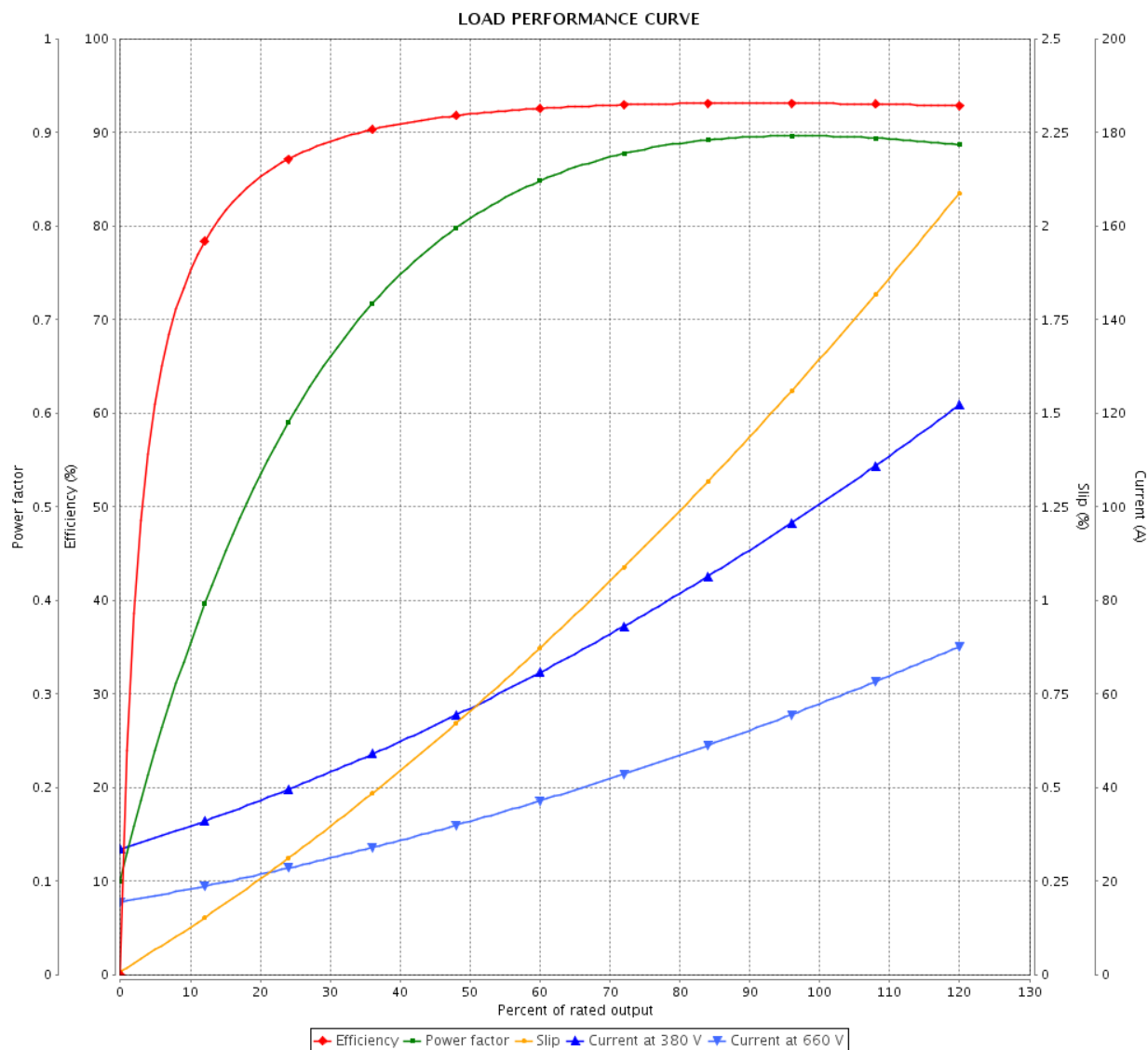
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 PUMP/FILTER Three-Phase Product code : 11753074



Performance : 380/660 V 50 Hz 4P

Rated current : 98.3/56.6 A
 LRC : 7.0
 Rated torque : 36.3 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.9471 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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

