

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase			Product code : 14380395			
Frame	: 213/5TC			Locked rotor time	: 52s (cold) 29s (hot)	
Output	: 10 HP (7.5 kW)			Temperature rise	: 80 K	
Poles	: 2			Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 575 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 9.38 A			Protection degree	: IP55	
L. R. Amperes	: 64.7 A			Cooling method	: IC411 - TEFC	
LRC	: 6.9x(Code H)			Mounting	: F-1	
No load current	: 2.88 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3525 rpm			Noise level ²	: 72.0 dB(A)	
Slip	: 2.08 %			Starting method	: Direct On Line	
Rated torque	: 2.06 kgfm			Approx. weight ³	: 94.1 kg	
Locked rotor torque	: 210 %					
Breakdown torque	: 280 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0232 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	88.2	88.5	90.2	90.2	Max. traction	: 59 kgf
Power Factor	0.54	0.79	0.86	0.89	Max. compression	: 153 kgf
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)
10.1	7.5	7.0	5.5	3.0	2.0	1.1
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6308 2RS		6207 2RS		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
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 NEMA MG-1.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	15/01/2024				1 / 3	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	15/01/2024		2 / 3	

LOAD PERFORMANCE CURVE

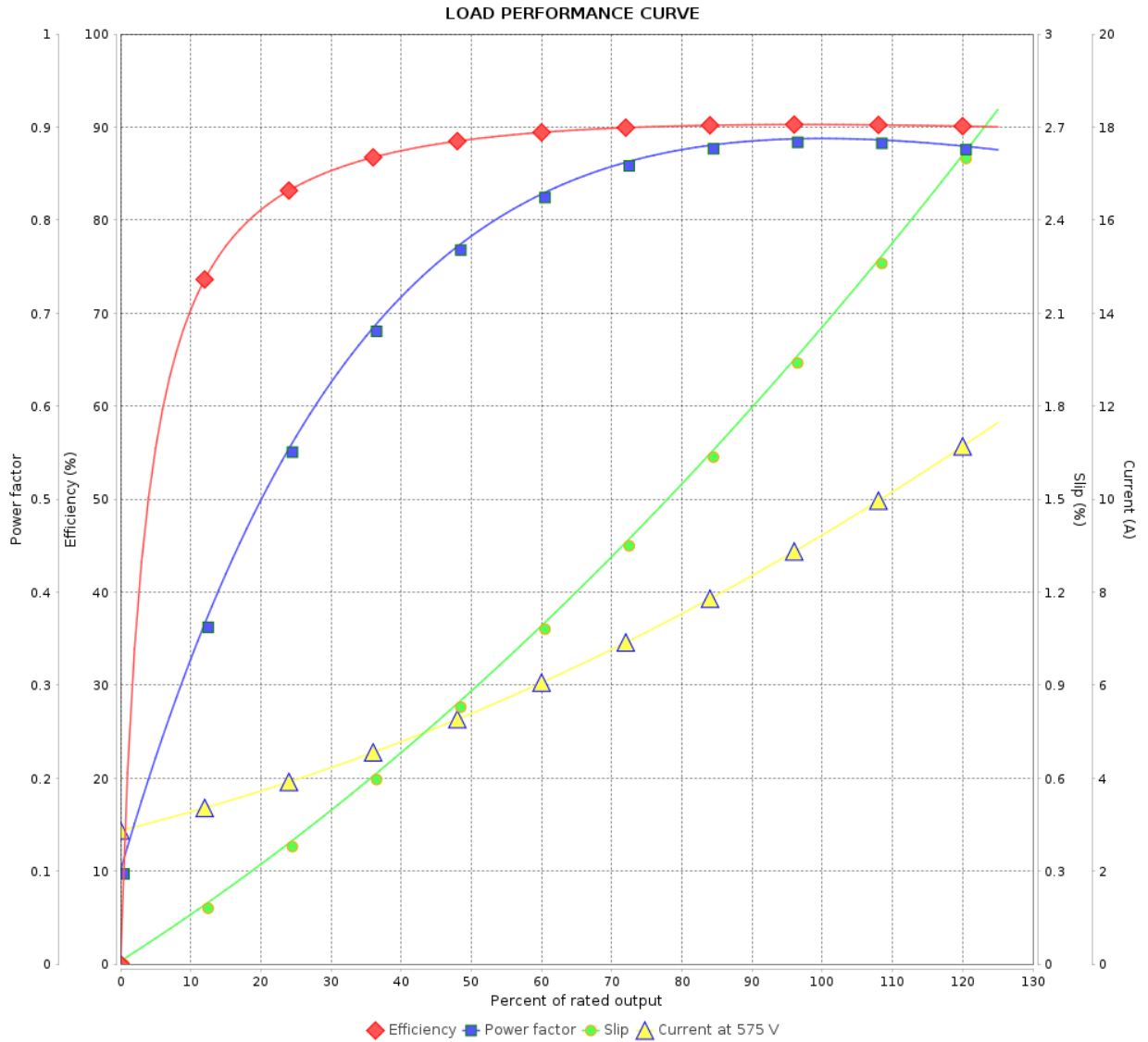
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 14380395



Performance : 575 V 60 Hz 2P

Rated current : 9.38 A
 LRC : 6.9
 Rated torque : 2.06 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 3525 rpm

Moment of inertia (J) : 0.0232 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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