

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :					
Product line : Single-Phase		Product code : 13383418			
Frame : 56HC	Insulation class : F	Cooling method : IC01 - ODP	Mounting : F-1		
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation ¹ : Both (CW and CCW)	Starting method : Direct On Line		
Altitude : 1000 m.a.s.l.	Design : L	Approx. weight ³ : 22.4 kg	Moment of inertia (J) : 0.0065 kgm ²		
Output [HP]	2				
Poles	4				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	21.0/11.6-10.5				
L. R. Amperes [A]	158/87.0-78.7				
LRC [A]	7.5x(Code J)				
No load current [A]	13.8/5.95-6.90				
Rated speed [RPM]	1740				
Slip [%]	3.33				
Rated torque [kgfm]	0.834				
Locked rotor torque [%]	240				
Breakdown torque [%]	260				
Service factor					
Temperature rise	80 K				
Locked rotor time	10s (cold) 6s (hot)				
Noise level ²	52.0 dB(A)				
Efficiency (%)	25%				
	50%	70.0			
	75%	75.0			
	100%	78.0			
Power Factor	25%				
	50%	0.62			
	75%	0.73			
	100%	0.80			
Bearing type : 6204 ZZ	Drive end	Non drive end	Foundation loads		
Sealing : Without			Max. traction : 57 kgf		
	Bearing Seal	Bearing Seal	Max. compression : 80 kgf		
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					
Date	17/05/2022			Page 1 / 2	Revision

LOAD PERFORMANCE CURVE

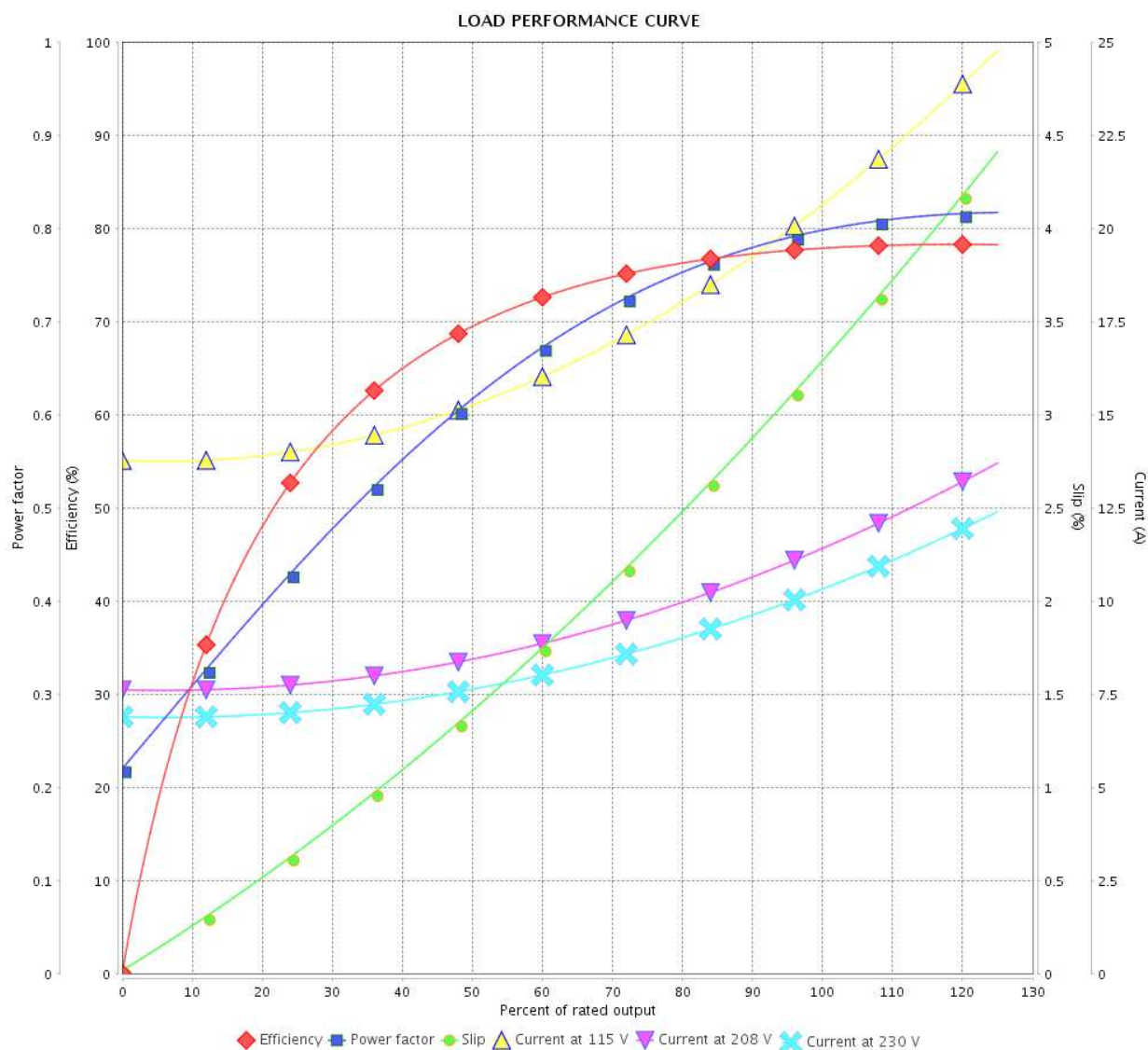
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 13383418

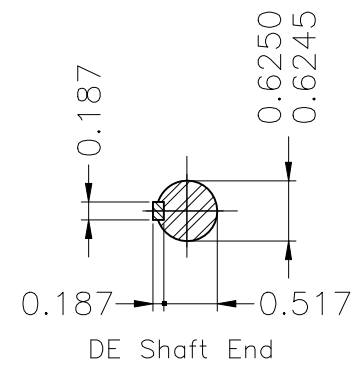


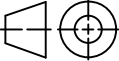
Performance : 115/208-230 V 60 Hz 4P

Rated current : 21.0/11.6-10.5 A
 LRC : 7.5
 Rated torque : 0.834 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0065 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

Rev.	Changes Summary		Performed	Checked	Date
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Date	17/05/2022				



Color Munsell N 1 matte black									
Painting plan 207N									
Mounting B34D									
				HYBRISUSER					00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		SINGLE PH. MOTOR ROLLED STEEL FRAME 56HC IP21 ODP			PREVIEW WDD 00			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			