

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : General High Efficiency Three-Phase      Product code : 11993753

Frame	: E143/5TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.00/1.50 A	Protection degree	: IP21
L. R. Amperes	: 23.4/11.7 A	Cooling method	: IC01 - ODP
LRC	: 7.8x(Code L)	Mounting	: F-1
No load current	: 2.00/1.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level <sup>2</sup>	: 50.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.417 kgfm	Approx. weight <sup>3</sup>	: 0.0 kg
Locked rotor torque	: 310 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0053 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	80.0	81.5	82.5	Max. traction	: 41 kgf
Power Factor	0.57	0.68	0.76	Max. compression	: 41 kgf

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6205 ZZ	6204 ZZ
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: -	-
Lubricant amount	: -	-
Lubricant type	: Mobil Polyrex EM	

Notes  
USABLE @208V 3.30A SF 1.00 SFA 3.30A

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	23/11/2024		1 / 2	

# LOAD PERFORMANCE CURVE

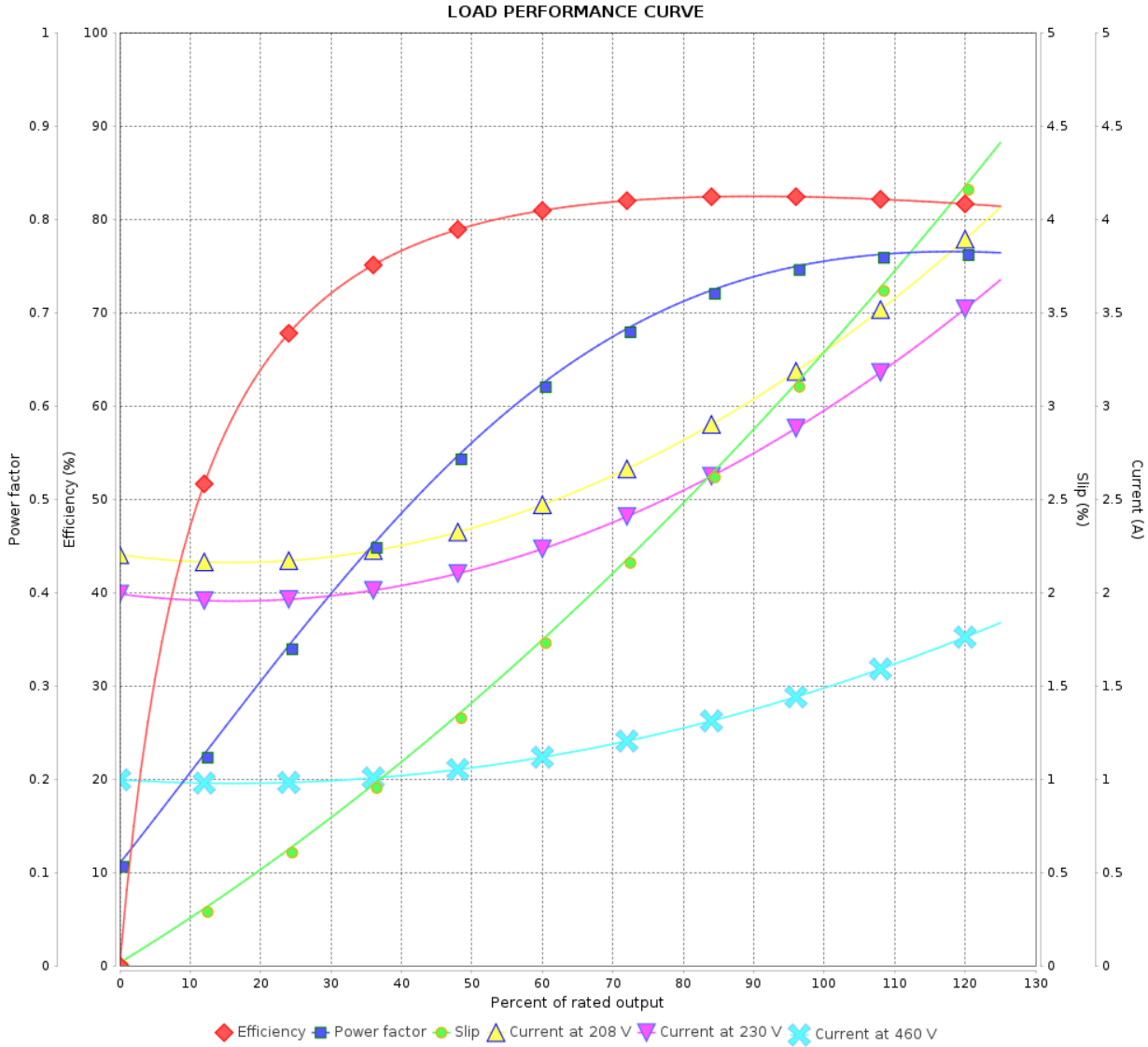
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase

Product code : 11993753



Performance : 230/460 V 60 Hz 4P

Rated current : 3.00/1.50 A  
 LRC : 7.8  
 Rated torque : 0.417 kgfm  
 Locked rotor torque : 310 %  
 Breakdown torque : 350 %  
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0053 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

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

1 2 3 4 5 6

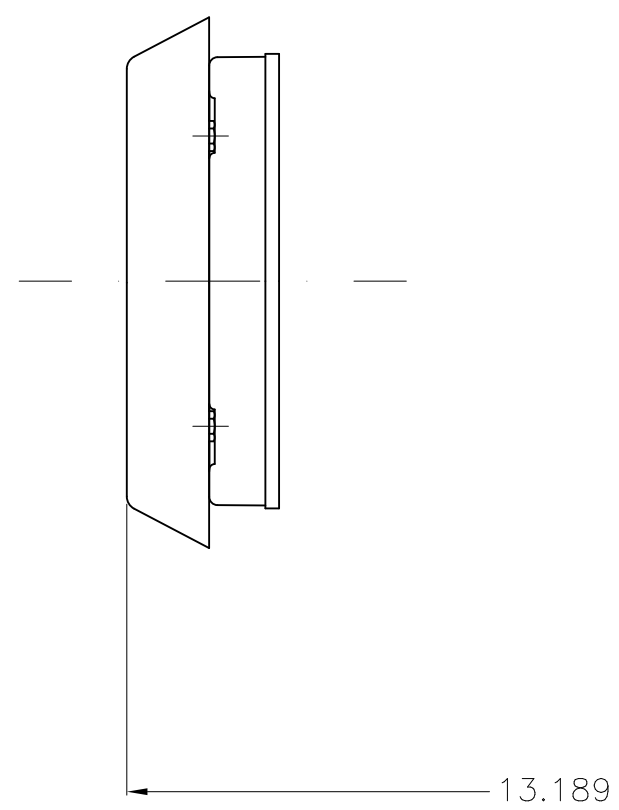
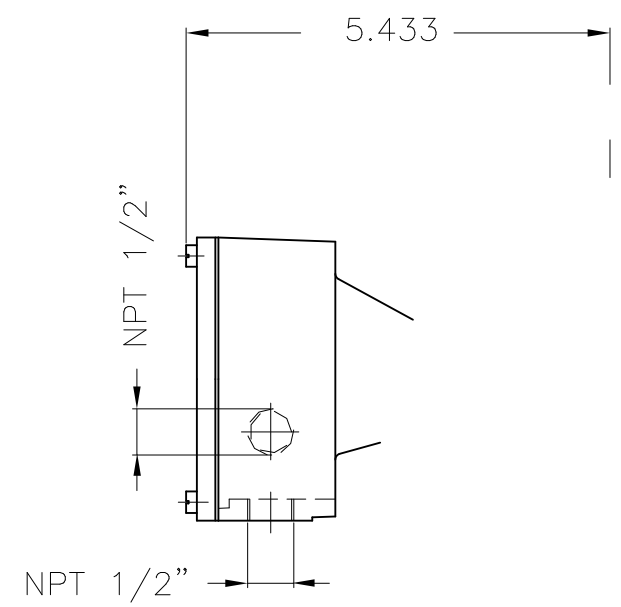
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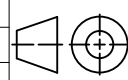

B

C

D

E



Mounting B14R(D)									
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	 THREE PH. MOTOR GENERAL HIGH EFF. FRAME E143/5TC IP21 ODP			PREVIEW				
CHECKED					WDD	00			
RELEASED					SHEET	1 / 1			
REL. DATE		WMO	Jaragua do Sul	Product Engineering					

1 HP 04 Poles 60 Hz

A