DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 12373795 Three-Phase Frame : 182/4T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 44.7 kg Altitude Protection degree : IP56 Moment of inertia (J) : 0.0143 kgm² Design : B Output [HP] 3 3 3 3 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 3.91 4.78 4.54 4.43 L. R. Amperes [A] 31.7 30.1 32.2 33.7 LRC [A] 8.1x(Code K) 6.3x(Code H) 7.1x(Code J) 7.6x(Code K) No load current [A] 2.00 2.00 2.10 2.25 Rated speed [RPM] 1760 1445 1450 1455 Slip [%] 2.22 3.67 3.33 3.00 Rated torque [kgfm] 1.24 1.51 1.50 1.50 Locked rotor torque [%] 220 220 220 240 Breakdown torque [%] 330 250 290 320 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 32s (cold) 18s (hot) Locked rotor time 41s (cold) 23s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level² 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 86.4 87.2 87.3 87.3 50% 87.5 87.5 87.5 87.5 Efficiency (%) 75% 88.5 87.5 87.5 87.5 100% 89.5 87.5 87.5 87.5 25% 0.36 0.43 0.39 0.36 50% 0.61 0.68 0.64 0.61 Power Factor 75% 0.71 0.77 0.75 0.73 0.79 0.80 0.80 0.79 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 13.4 11.0 13.4 P2 (0,5;1,0) 10.8 10.8 8.9 10.8 P3 (0,25;1,0) 10.7 8.8 10.7 10.7 P4 (0,9;0,5) 7.4 7.4 Losses (%) 6.1 7.4 P5 (0,5;0,5) 4.9 4.9 4.0 4.9 P6 (0,5;0,25) 3.0 3.6 3.6 3.6 P7 (0,25;0,25) 2.1 2.6 2.6 2.6 Non drive end Foundation loads Drive end Bearing type 6207 C3 6206 C3 Max. traction : 78 kaf Sealing Inpro/Seal Inpro/Seal Max. compression : 122 kgf 20000 h 20000 h Lubrication interval Lubricant amount 7 g 5 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process.

manufacturing pi	00033.				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1/6	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



		•	3		
Customer	:				
	·				
Notes					
		01 0	<u> </u>		
Rev.		Changes Summary	Performed	Checked	Date
Performed by					I
				D	Davidat
Checked by				Page	Revision

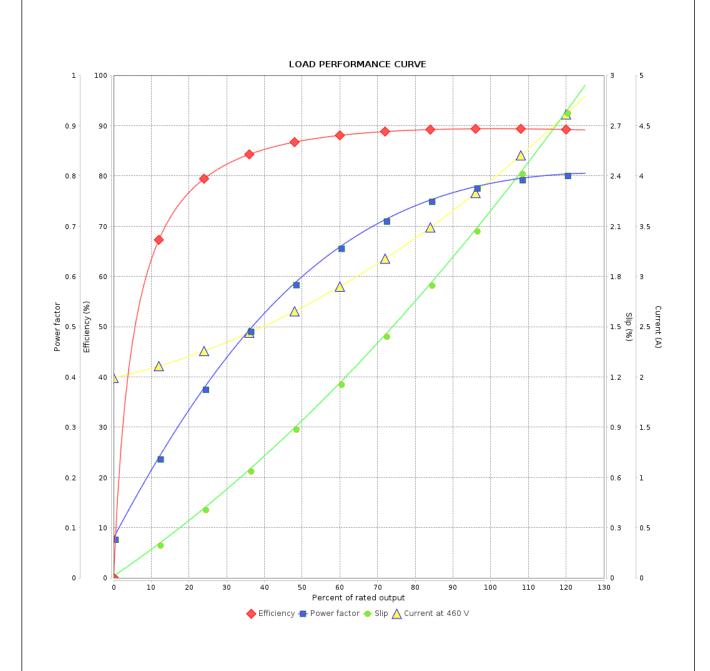
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12373795

Three-Phase



Dorformana	· 460 \/ 60 LI=	4D				
Performance	. 400 V 00 HZ	: 460 V 60 Hz 4P				
Rated current	: 3.91 A	Moment of	Moment of inertia (J)		: 0.0143 kgm²	
LRC	: 8.1	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 1.24 kgfm	Insulation	Insulation class		: F	
Locked rotor torqu	ie : 220 %	Service fa	ictor	: 1.25		
Breakdown torque	: 330 %	Temperati	ure rise	: 80 K		
Rated speed	: 1760 rpm	Design		: B		
Rev.	Changes S	Summary	Performed	Checked	Date	

· tatou opecu		остр			
Rev. Cha		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			3/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

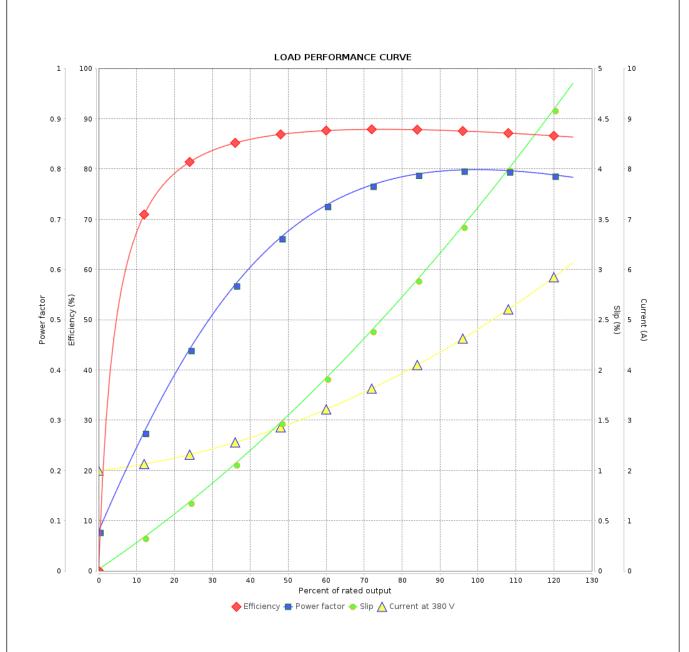
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three Phase

Product code:

12373795

4/6



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.78 A : 6.3 : 1.51 kgfm : 220 % : 250 % : 1445 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ris Design	3	: 0.0143 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	Р	erformed	Checked	Date
Performed by					
Checked by				Page	Revision

13/01/2024

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

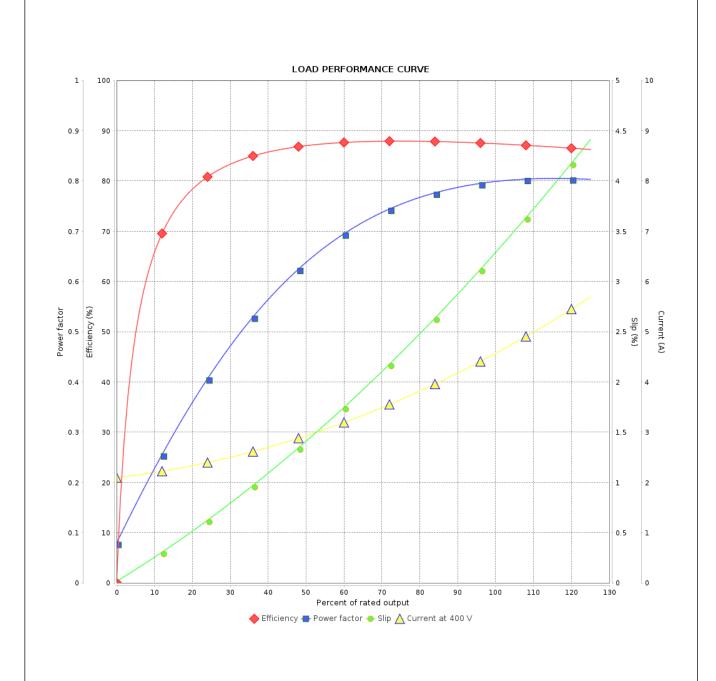
Checked by

Date

13/01/2024

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12373795

Three-Phase



Performance	: 400 V 50 Hz 4P IE3	,			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.54 A : 7.1 : 1.50 kgfm : 220 % : 290 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0143 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	1	Performed	Checked	Date
Performed by					

Page

5/6

Revision

Three Phase Induction Motor - Squirrel Cage



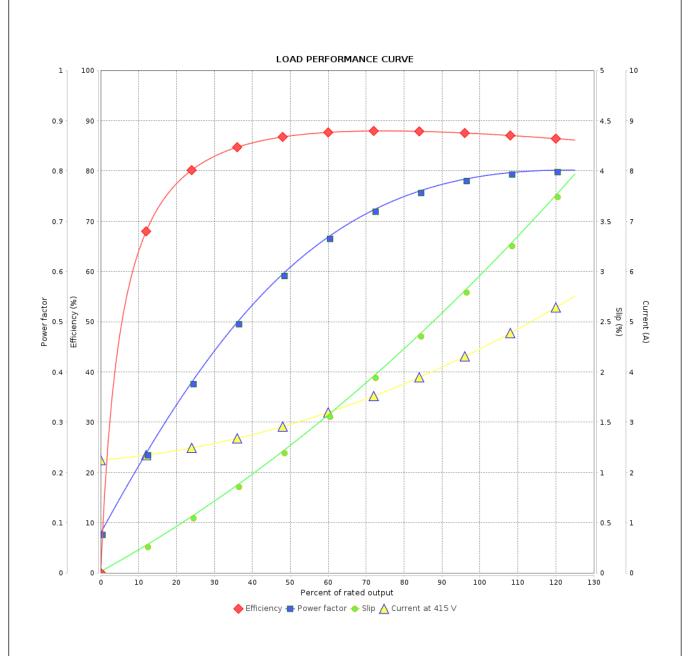
Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

12373795



Performance	: 4	15 V 50 Hz 4P IE3	}			
Rated current	: 4	I.43 A	Duty cycle Insulation class 0 % Service factor Temperature rise		: 0.0143 kgm² : Cont.(S1) : F : 1.25 : 80 K	
LRC	: 7	' .6				
Rated torque	: 1	.50 kgfm				
Locked rotor torq	jue : 2	240 %				
Breakdown torqu	ie : 3	320 %				
Rated speed	: 1	455 rpm			: B	
Rev.		Changes Summa	ıry	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	13/01/2024				6/6	