DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11443945 Cooling method Frame : 284/6T : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ Altitude : 1000 m.a.s.l. : 199 kg Protection degree : IP55 Moment of inertia (J) : 0.2467 kgm² Design : B Output [HP] 30 25 25 30 25 30 30 Poles 4 4 4 4 4 4 4 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 43.1 Rated current [A] 70.2/35.1 35.7 34.3 33.9 41.1 39.7 L. R. Amperes [A] 428/214 214 230 247 228 247 238 LRC [A] 6.1x(Code 6.0x(Code | 6.7x(Code H) | 7.3x(Code J) | 5.3x(Code F) | 6.0x(Code 6.0x(Code G) G) G) G) No load current [A] 24.6/12.3 12.2 13.1 13.8 12.2 13.1 13.8 Rated speed [RPM] 1770 1465 1470 1475 1455 1460 1465 Slip [%] 1.67 2.33 2.00 1.67 3.00 2.67 2.33 Rated torque [kgfm] 12.3 12.4 12.3 12.3 15.0 14.9 14.9 Locked rotor torque [%] 240 200 229 260 170 190 220 Breakdown torque [%] 240 229 260 280 200 220 240 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 21s (cold) Locked rotor time 36s (cold) 27s (cold) 27s (cold) 27s (cold) 23s (cold) 23s (cold) 20s (hot) 15s (hot) 15s (hot) 15s (hot) 13s (hot) 13s (hot) 12s (hot) 63.0 dB(A) Noise level² 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 0.000 0.000 50% 93.0 92.1 92.1 91.6 90.0 90.5 91.2 Efficiency (%) 75% 93.0 92.5 92.8 92.5 90.2 91.0 91.7 100% 93.6 92.6 92.7 92.6 90.2 91.0 91.7 25% 0.00 0.00 50% 0.70 0.70 0.67 0.64 0.76 0.73 0.70 Power Factor 75% 0.80 0.81 0.79 0.76 0.83 0.82 0.80 100% 0.84 0.85 0.84 0.82 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.8 6.8 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 P4 (0,9;0,5) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 Losses (%) P5 (0,5;0,5) 2.2 2.2 2.2 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 1.4 1.4 1.4 P7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 : 411 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 610 kgf Lubrication interval 20000 h 20000 h 11 g Lubricant amount 18 q Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

1/9

13/01/2024

Date

DATA SHEET



Three Pha	se Induction Motor - Squirrel Cag	е		
Customer	:			
Notes USABLE @208	√ 77.6A SF 1.15 SFA 89.3A			
Rev	Changes Summary	Performed	Checked	Date

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			2/9	

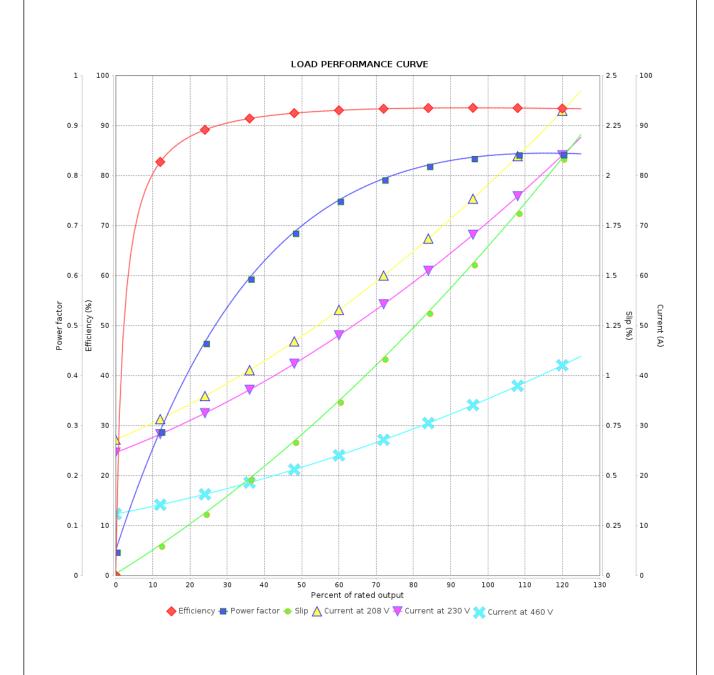
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 11443945

Phase



Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torg Breakdown torqu Rated speed	: 6 : 1 que : 2	0.2/35.1 A .1 2.3 kgfm 40 % 40 % 770 rpm	Duty cycle Insulation class Service factor Temperature rise		: 0.2467 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision
Date	13/01/2024	-			3/9	

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Three-

Product code:

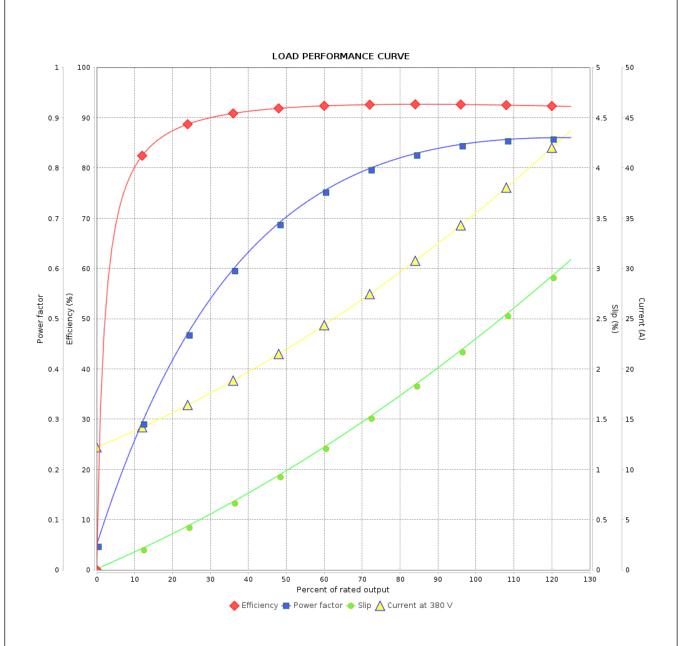
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4/9



13/01/2024

Date



Performance : 380 V 50 Hz 4P IE3					
Rated current	: 35.7 A	Moment of inertia (J)		: 0.2467 kgm²	
LRC	: 6.0	Duty cycle		: Cont.(S1)	
Rated torque	: 12.4 kgfm	Insulation clas	s	: F ` ´	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 1465 rpm	Design		: B	
Rev.	Changes Summary	F	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage

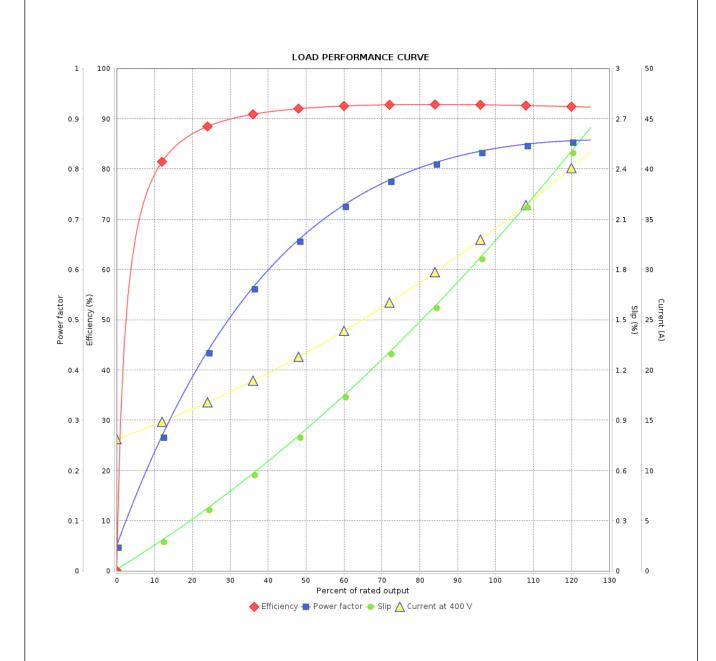


Customer :

Product line : W22 NEMA Premium Efficiency Three- Pro

Phase

Product code: 11443945



Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	34.3 A	Moment o	Moment of inertia (J)		
LRC	:	6.7	Duty cycle)	: Cont.(S1)	
Rated torque	:	12.3 kgfm	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.00	
Breakdown torque	:	260 %	Temperature rise		: 80 K	
Rated speed	:	1470 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				5/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/01/2024

Product line : W22 NEMA Premium Efficiency Three-

Product code:

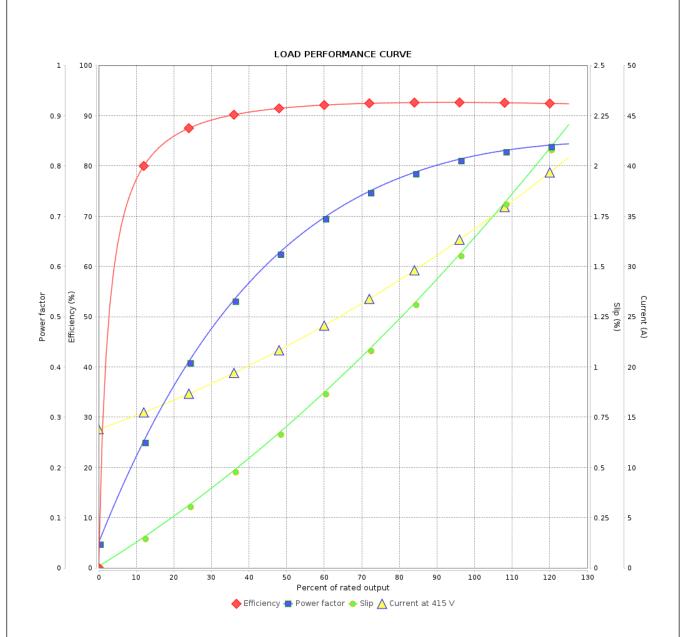
11443945

Page

6/9

Revision





Performance	: 415 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.9 A : 7.3 : 12.3 kgfm : 260 % : 280 % : 1475 rpm	: 7.3 Duty cycle : Cont.(S1) : 12.3 kgfm Insulation class : F : 260 % Service factor : 1.00 : 280 % Temperature rise : 80 K		: 1.00 : 80 K	n²	
Rev.	Changes Summary	1	Performed	Checked	Date	
Performed by						

Three Phase Induction Motor - Squirrel Cage

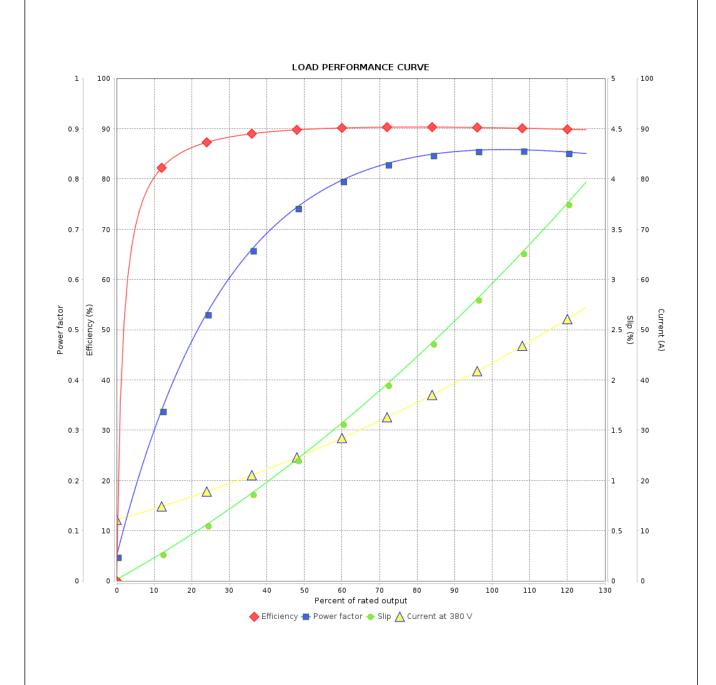


Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11443945



Performance : 380 V 50 Hz 4P IE1							
Rated current		43.1 A	Moment o	f inertia (J)	: 0.2467 kgm²		
LRC : 5.		5.3	Duty cycle	;	: Cont.(S1)		
Rated torque	:	15.0 kgfm	Insulation	class	: F		
Locked rotor torqu	e : '	170 %	Service fa	ctor	: 1.00		
Breakdown torque		200 %	Temperature rise		: 105 K		
Rated speed	: '	1455 rpm Design			: B		
Rev.		Changes Summar	ry	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	13/01/2024				7/9		

Three Phase Induction Motor - Squirrel Cage



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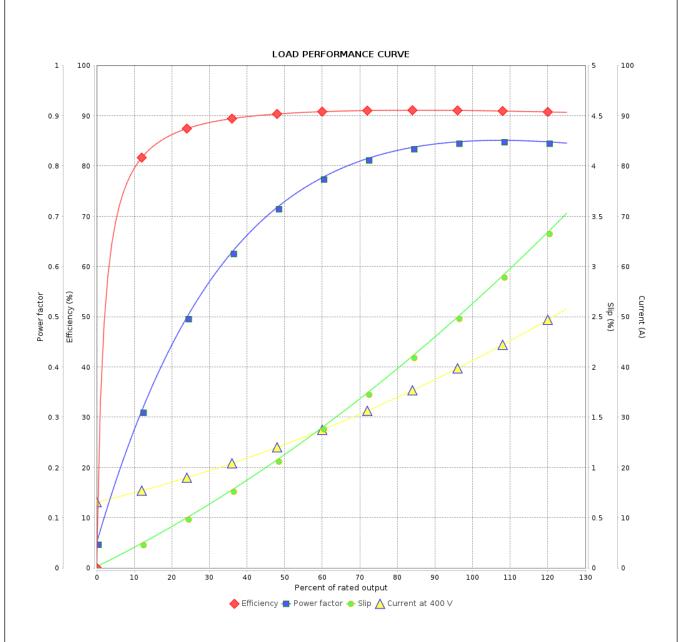
Product line : W22 NEMA Premium Efficiency Three-

Product code:

11443945

8/9





Performance	: 400 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 6.0 : 14.9 kgfm : 190 % : 220 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/01/2024

Date

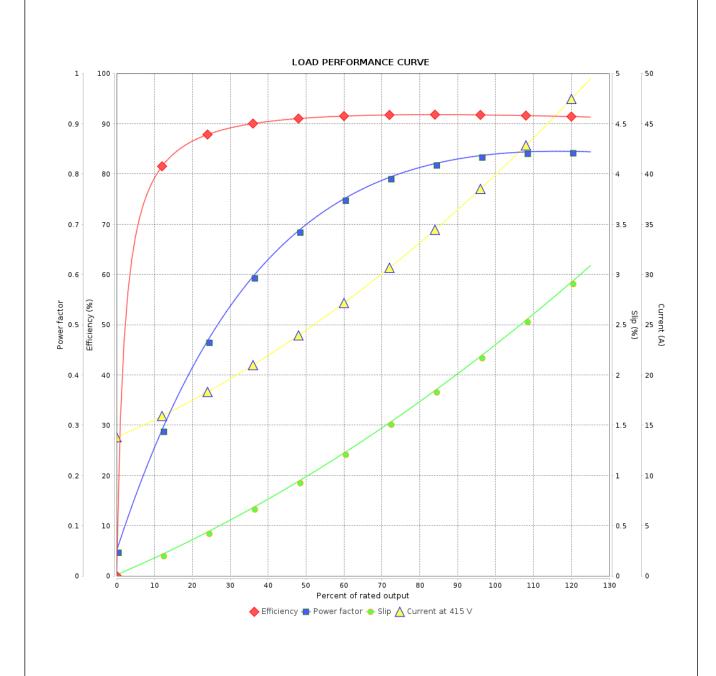
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Three-

Product code: 11443945



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current				Moment of inertia (J)		2
LRC	: 6.	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 14	4.9 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 22	20 %	Service fa	ctor	: 1.00	
Breakdown torque : 24		40 %	Temperati	Temperature rise		
Rated speed	: 14	465 rpm Design			: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024	1			9/9	