DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11355727 Three-Phase : 364/5T Cooling method Frame : 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 : 387 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 1.22 kgm² Design : B Output [HP] 40 30 30 40 40 30 40 Poles 8 8 8 8 8 8 8 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 62.9 102/50.9 47.8 46.3 45.7 60.0 58.1 L. R. Amperes [A] 601/300 292 310 324 283 300 320 LRC [A] 5.9x(Code | 6.1x(Code H) | 6.7x(Code J) | 7.1x(Code J) | 4.5x(Code E) | 5.0x(Code F) | 5.5x(Code G) G) No load current [A] 20.7 22.2 23.4 20.7 43.0/21.5 22.2 23.4 Rated speed [RPM] 882 735 736 737 725 727 730 3.33 Slip [%] 2.00 2.00 1.87 1.73 3.07 2.67 Rated torque [kgfm] 32.9 29.6 29.6 29.5 40.0 39.9 39.8 Locked rotor torque [%] 170 600 210 229 140 160 170 Breakdown torque [%] 210 240 270 300 180 200 210 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 32s (cold) 32s (cold) Locked rotor time 46s (cold) 81s (cold) 52s (cold) 52s (cold) 32s (cold) 18s (hot) 26s (hot) 45s (hot) 29s (hot) 29s (hot) 18s (hot) 18s (hot) Noise level² 60.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 92.4 91.5 91.5 90.9 91.7 91.7 91.7 Efficiency (%) 75% 93.0 91.6 91.9 91.8 91.0 91.7 91.7 100% 92.4 90.9 91.5 91.7 89.5 90.2 91.0 25% 50% 0.65 0.60 0.55 0.52 0.70 0.66 0.62 Power Factor 75% 0.75 0.71 0.68 0.65 0.78 0.76 0.74 100% 0.80 0.77 0.75 0.73 0.81 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 8.1 8.1 8.1 8.1 8.1 8.1 P2 (0,5;1,0) 7.1 7.1 7.1 7.1 7.1 7.1 7.1 P3 (0,25;1,0) 6.5 6.5 6.5 6.5 6.5 6.5 6.5 P4 (0,9;0,5) 3.6 3.6 3.6 3.6 3.6 3.6 3.6 Losses (%) P5 (0,5;0,5) 2.6 2.6 2.6 2.6 2.6 2.6 2.6 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 745 kgf Max. traction Sealing WSeal WSeal Max. compression : 1131 kgf Lubrication interval 20000 h 20000 h Lubricant amount 27 q 27 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 21/10/2024 1/9 Date

DATA SHEET



Customer : Notes USABLE @208V 111A SF 1.10 SFA 122A	Three Pha	se Induction Motor - Squirrel Cage			шец
Notes USABLE @208V 111A SF 1.10 SFA 122A	Customer	:			
	Notes USABLE @208	V 111A SF 1.10 SFA 122A			
Rev. Changes Summary Performed Checked Date	Rev.	Changes Summary	Performed	Checked	Date

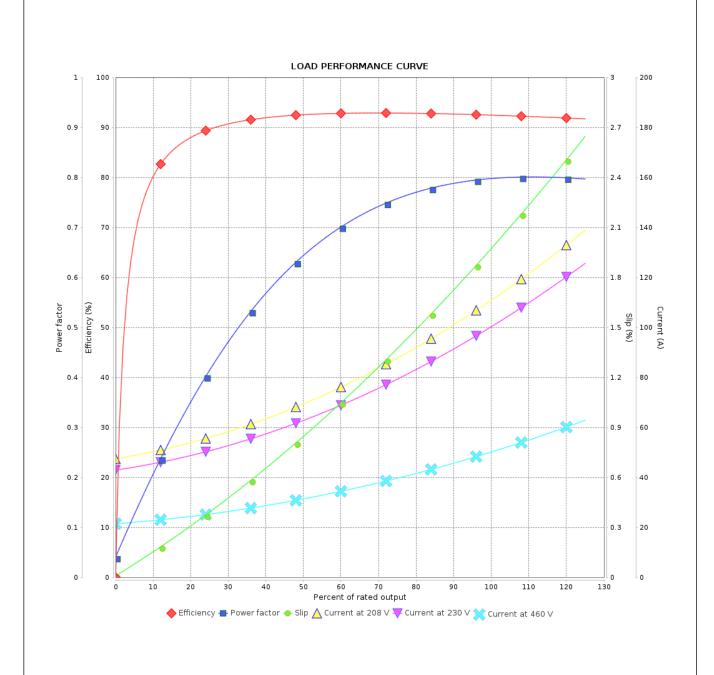
Rev.		Changes Summary	Performed	Спескеа	Date
Performed by					
Checked by				Page	Revision
Date	21/10/2024			2/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11355727



D	Moment of inertia (J) Duty cycle nsulation class	: 1.22 kgm² : Cont.(S1)	
S	Service factor Femperature rise	: F : 1.25 : 80 K	
D	Design	: B	
ges Summary	Performe	d Checked	Date
J	es Summary	es Summary Performe	es Summary Performed Checked

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	21/10/2024			3/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

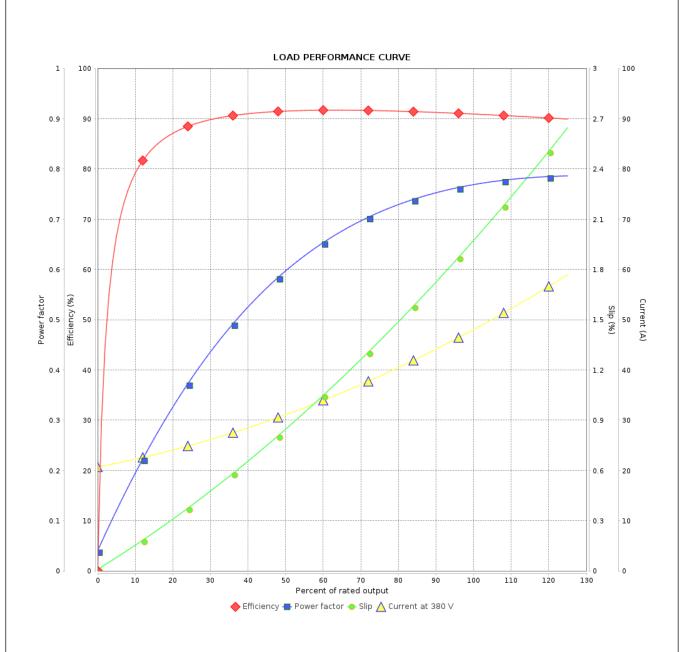
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 1

11355727

4/9



Performance	: 380 V 50 Hz 8P IE3				
		Moment of i	nertia (J)	: 1.22 kgm²	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 29.6 kgfm	Insulation cl	ass	: F	
Locked rotor torque : 600 %		Service fact	or	: 1.00	
Breakdown torque	: 240 %	Temperature	e rise	: 80 K	
Rated speed	: 735 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
-					
Checked by				Page	Revision

21/10/2024

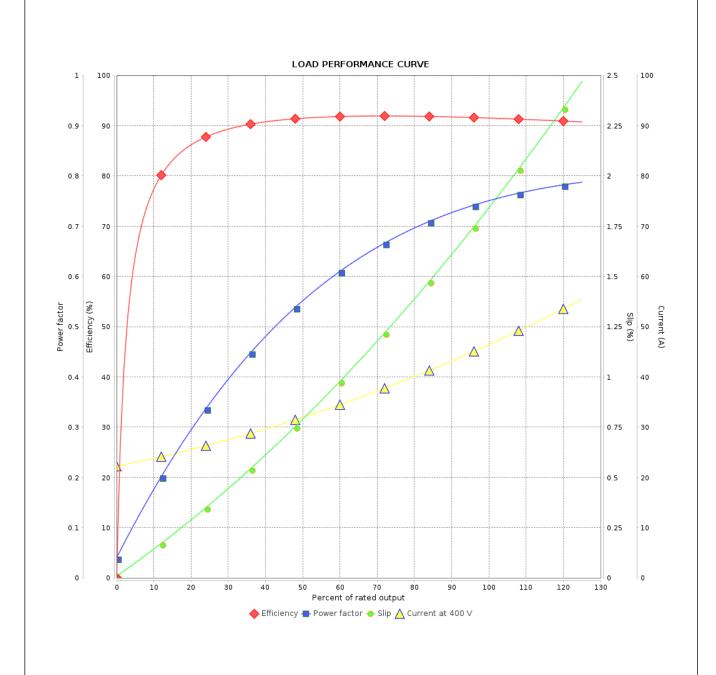
Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11355727



Performance		: 400 V 50 Hz 8P IE	Ξ3			
Rated current		: 46.3 A : 6.7		of inertia (J)	: 1.22 kgm²	
LRC			Duty cycl Insulation		: Cont.(S1)	
Rated torque	****	: 29.6 kgfm : 210 %	Service fa		: F	
Locked rotor tord					: 1.00	
Breakdown torqu	ie –	: 270 % Temperatur		ure rise	: 80 K	
Rated speed		: 736 rpm	Design		: B	
Rev.		Changes Summ	nary	Performed	Checked	Date

Rev.		Changes Summary	Pe	erformed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	21/10/2024				5/9	

Three Phase Induction Motor - Squirrel Cage

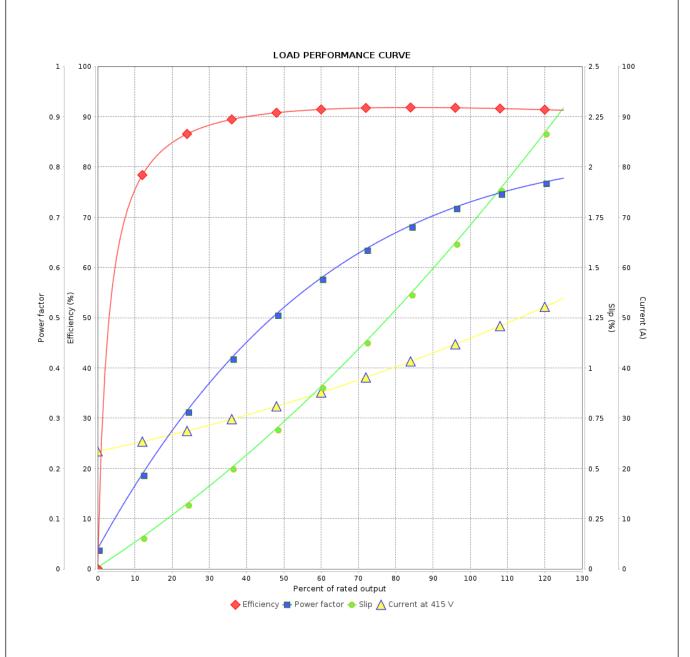


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355727



Performance	: 415 V 50 Hz 8P IE3				
Rated current : 45.7 A LRC : 7.1 Rated torque : 29.5 kgfm Locked rotor torque : 229 % Breakdown torque : 300 % Rated speed : 737 rpm		Moment of inertia (J) : 1.22 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
Rev.	Changes Summary	,	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/9

21/10/2024

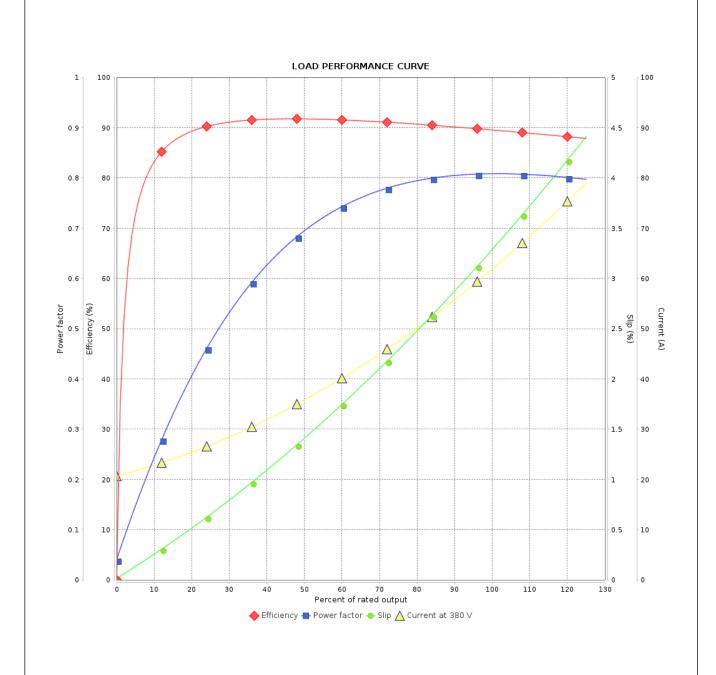
Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11355727



Performance	: 380 V 50 Hz 8P IE	≣1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 62.9 A : 4.5 : 40.0 kgfm : 140 % : 180 %	Moment of Duty cycle Insulation Service fa	class actor	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 725 rpm	Design	uic iisc	: B	
Rev.	Changes Summ	nary	Performed	Checked	Date

· · · · · · · · · · · · · · · · · · ·		- · · · · · · · · · · · · · · · · · · ·			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	21/10/2024			7/9	

Three Phase Induction Motor - Squirrel Cage

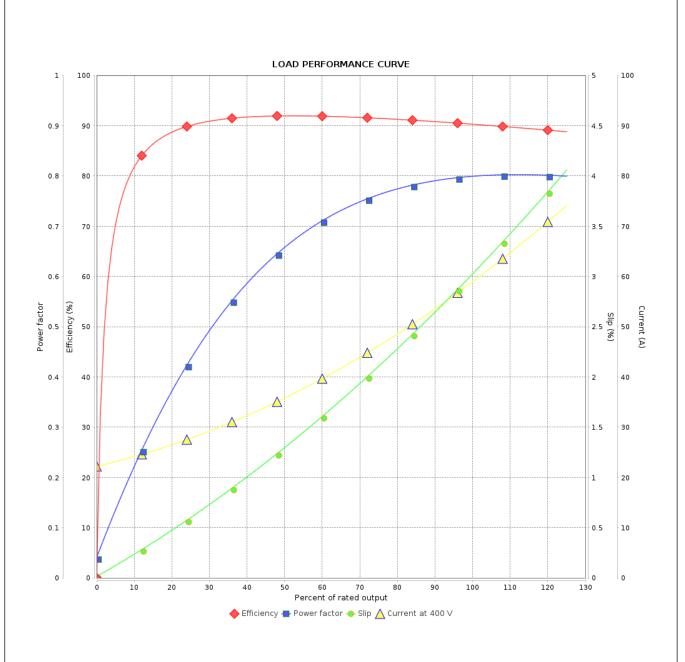


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11355727



Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 60.0 A : 5.0 : 39.9 kgfm : 160 % : 200 % : 727 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

8/9

21/10/2024

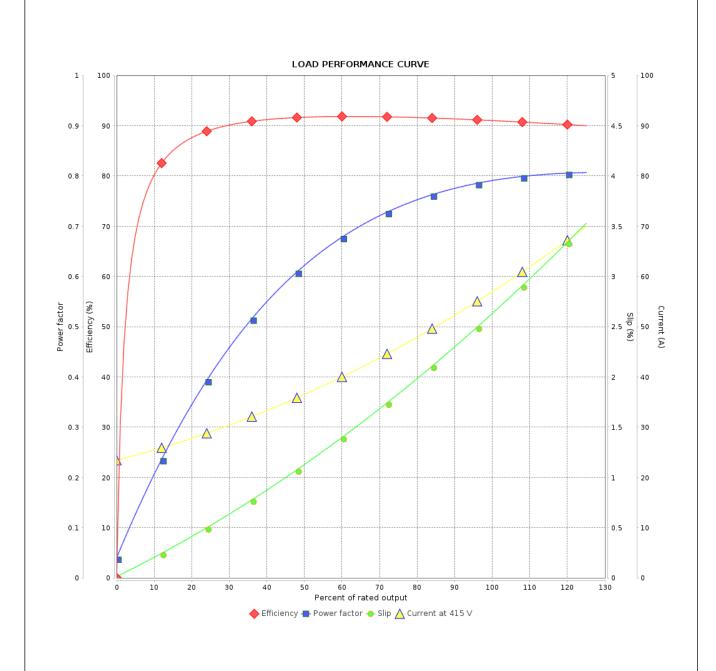
Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11355727



Performance	: 415 V 50 Hz	8P IE2			
Rated current	: 58.1 A	Moment of	of inertia (J)	: 1.22 kgm²	
LRC	: 5.5	Duty cycl	е	: Cont.(S1)	
Rated torque	: 39.8 kgfm	Insulation	Insulation class		
Locked rotor tord	jue : 170 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 210 %	Temperat	ure rise	: 105 K	
Rated speed	: 730 rpm	Design		: B	
Rev.	Changes	Summary	Performed	Checked	Date

ratoa opooa	. , ,	50 Ipiii		Doolgii			
Rev.		Changes Summary	hanges Summary		Performed	Checked	Date
Performed by							
Checked by						Page	Revision
Date	21/10/2024	1				9/9	