DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11165648 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 : 407 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 1.36 kgm² Design : B Output [HP] 50 40 40 50 40 50 50 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 71.3 115/57.4 57.7 55.5 53.5 67.2 65.5 L. R. Amperes [A] 735/367 358 377 396 349 370 400 LRC [A] 6.4x(Code 6.2x(Code | 6.8x(Code H) | 7.4x(Code J) | 4.9x(Code E) | 5.5x(Code F) | 6.1x(Code G) G) G) No load current [A] 22.5 20.5 40.0/20.0 20.0 21.5 21.5 22.5 Rated speed [RPM] 1183 983 985 985 975 979 980 Slip [%] 1.42 1.70 1.50 1.50 2.50 2.10 2.00 Rated torque [kgfm] 30.7 29.5 29.5 29.5 37.2 37.1 37.0 Locked rotor torque [%] 200 200 229 250 160 180 200 Breakdown torque [%] 240 240 260 290 190 210 229 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 80 K 80 K 27s (cold) Locked rotor time 32s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 18s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 66.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 93.6 92.7 92.7 92.6 93.0 93.0 93.0 Efficiency (%) 75% 94.1 92.8 93.1 93.1 92.4 93.0 93.0 92.9 100% 94.1 92.9 92.9 91.7 92.4 92.4 25% 50% 0.74 0.72 0.70 0.66 0.77 0.75 0.74 Power Factor 75% 0.83 0.82 0.80 0.79 0.84 0.83 0.82 100% 0.86 0.85 0.84 0.84 0.86 0.86 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.2 6.2 6.2 6.2 6.2 6.2 6.2 P2 (0,5;1,0) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 P3 (0,25;1,0) 4.6 4.6 4.6 4.6 4.6 4.6 4.6 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6314 C3 6314 C3 : 753 kgf Max. traction Sealing WSeal WSeal Max. compression : 1160 kgf Lubrication interval 17000 h 17000 h 27 g Lubricant amount 27 g 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

Checked by

Date

21/10/2024



Three Pha	se Inductio	n Motor - Squi	rrel Cage			<u> Ш24</u>
Customer	:					
Notes USABLE @208\	√ 127A SF 1.10 S	FA 140A				
Rev.		Changes Summary		Performed	Checked	Date
Performed by	I				1	

Page

2/9

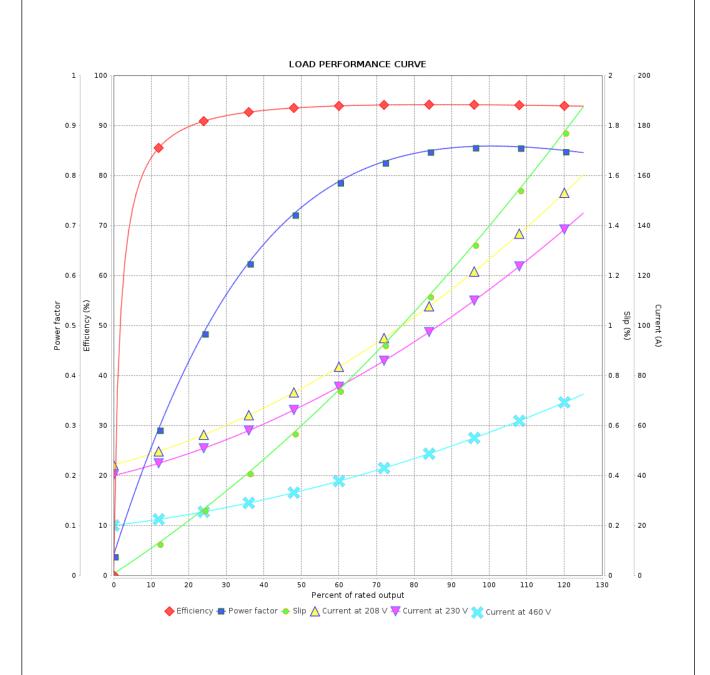
Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11165648



Performance	: 230/460	V 60 Hz 6P			
Rated current	: 115/57.4	A Moment of	of inertia (J)	: 1.36 kgm²	
LRC	: 6.4	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 30.7 kgfr	m Insulation	class	: F	
Locked rotor tord	ue : 200 %	Service fa	ector	: 1.25	
Breakdown torqu	e : 240 %	Temperat	ure rise	: 80 K	
Rated speed	: 1183 rpn	n Design		: B	
Rev	Chanc	nes Summary	Performed	Checked	Date

. tatou opoou						
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 :

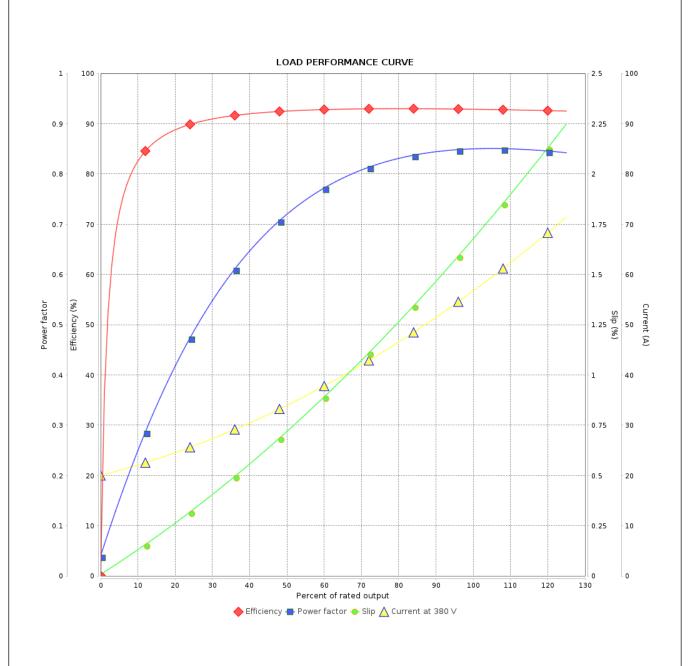
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

11165648

4/9



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torqu		Duty cycle Insulation Service fa	class ctor	: 1.36 kgm² : Cont.(S1) : F : 1.00	
Breakdown torque		Temperati	ıre rise	: 80 K	
Rated speed	: 983 rpm	Design		: B	
Rev.	Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

21/10/2024

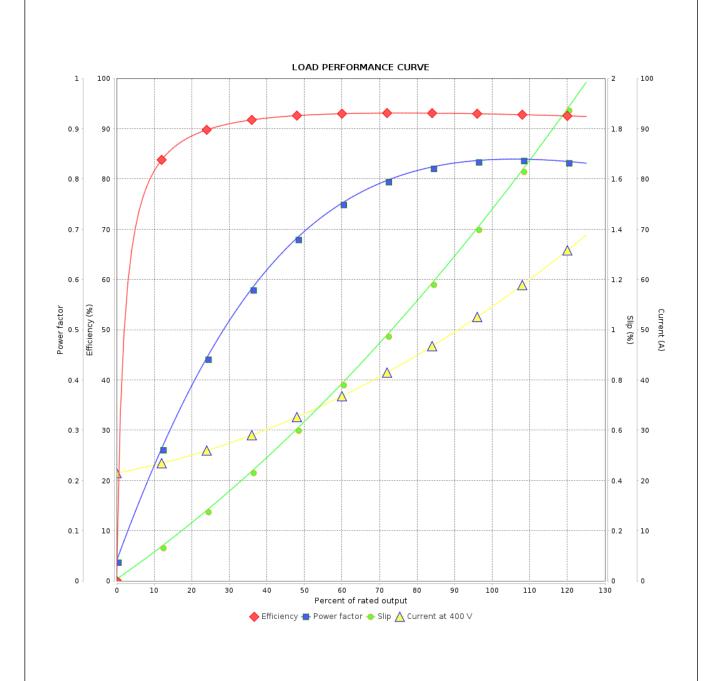
Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11165648



Performance	: 400 V 50 Hz 6P IE3				
renomance	. 400 V 30 HZ 0F 1E3				
Rated current	: 55.5 A	Moment of inertia (J)		: 1.36 kgm²	
LRC	: 6.8	Duty cycle		ycle : Cont.(S1)	
Rated torque	: 29.5 kgfm	Insulation	class	: F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 260 %	Temperati	ıre rise	: 80 K	
Rated speed	: 985 rpm	Design		: B	
Rev.	Changes Summary	y	Performed	Checked	Date

· tatoa opooa	. 55	. С. Гр	2 55.9			
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	21/10/2024				5/9	

Three Phase Induction Motor - Squirrel Cage

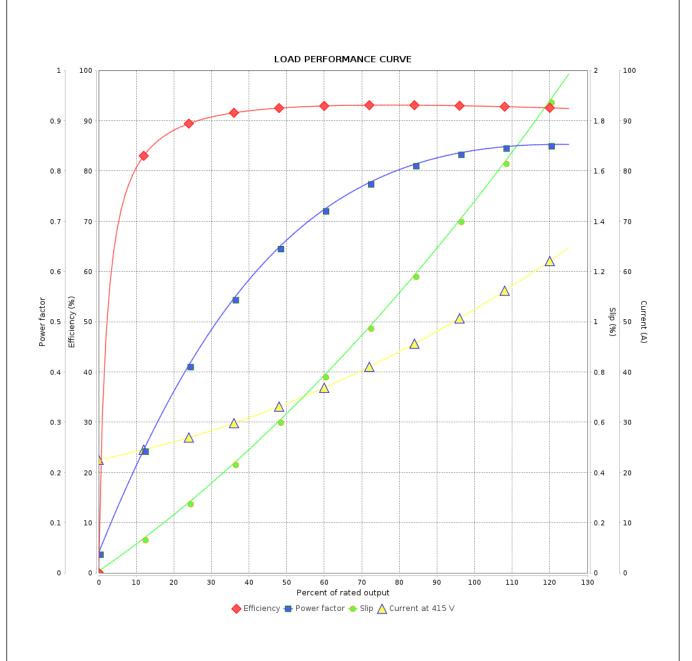


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165648



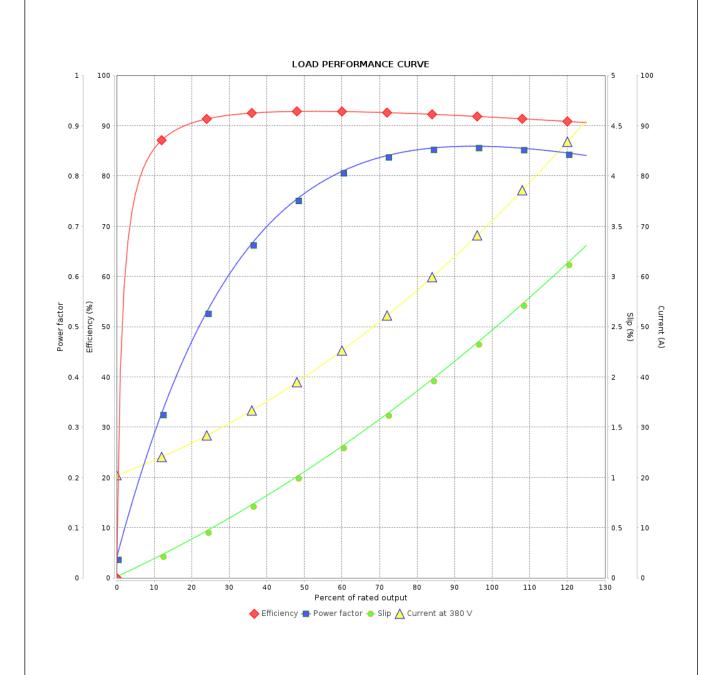
Performance	: 4	115 V 50 Hz 6P IE3	3			
Rated current	: 5	53.5 A	Moment of	of inertia (J)	: 1.36 kgm²	
LRC	: 7	7.4	, ,		: Cont.(S1)	
Rated torque	: 2	29.5 kgfm	.5 kgfm Insulation class		: F	
Locked rotor torqu	ie : 2	250 %	Service fa	actor	: 1.00	
Breakdown torque	: 2	290 %	Temperat	ure rise	: 80 K	
Rated speed	: 9	985 rpm	Design		: B	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	21/10/2024				6/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11165648



Performance	: 380 V 50 Hz 6P IE1				
Rated current	: 71.3 A	Moment of	of inertia (J)	: 1.36 kgm²	
LRC	: 4.9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 37.2 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 160 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 190 %	Temperati	ure rise	: 105 K	
Rated speed	: 975 rpm	Design		: B	
					_
Rev.	Changes Summary		Performed	Checked	Date

Rated speed	: 9	75 rpm	Design		: В	
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 :

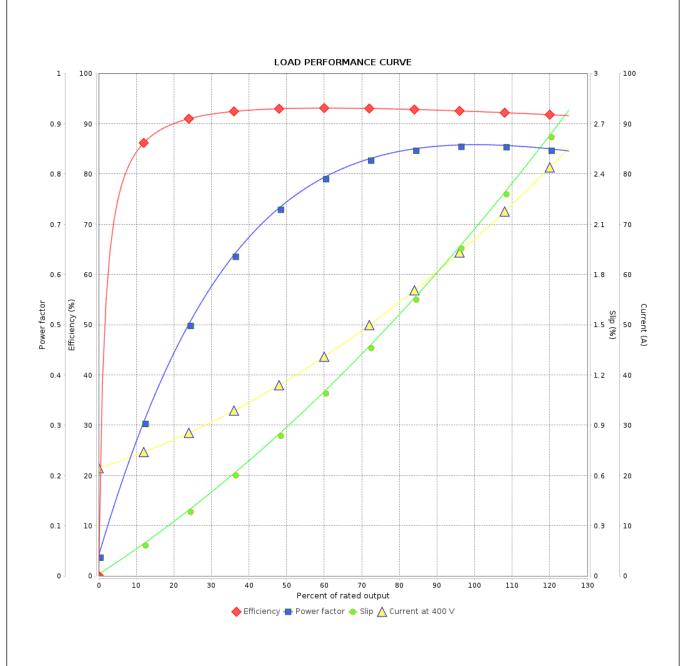
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code :

11165648

8/9



Performance	: 40	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 37 que : 18 ue : 21	7.2 A 5 7.1 kgfm 30 % 10 % 79 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.36 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision

21/10/2024

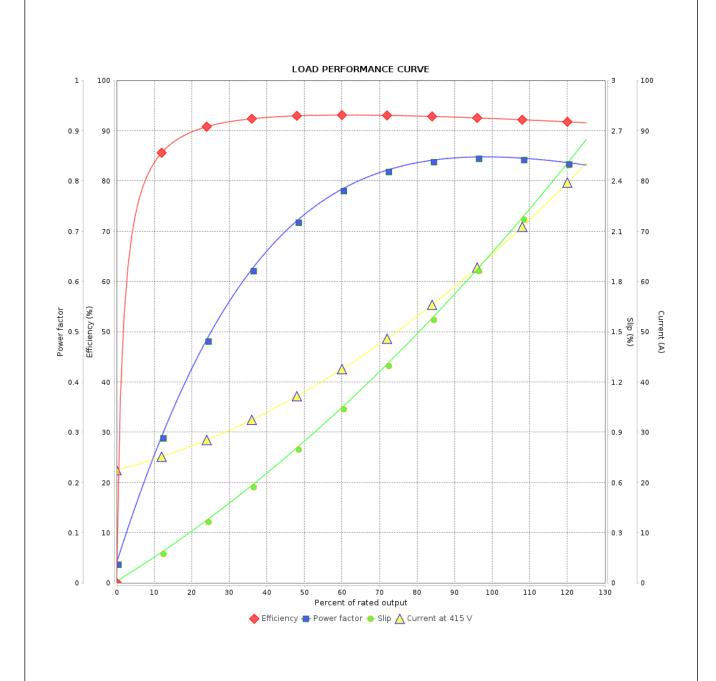
Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11165648



Rated speed	: 980 rpm	Design		: B	
Breakdown torque	: 229 %	Temperatur	e rise	: 80 K	
Locked rotor torqu	e : 200 %	Service fact	tor	: 1.00	
Rated torque	: 37.0 kgfm	Insulation c	lass	: F	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated current	: 65.5 A	Moment of	inertia (J)	: 1.36 kgm²	
Performance	: 415 V 50 Hz 6P IE	2			

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