DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943062

Three-Phase

Frame : 364/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 387 kg

Protection degree : IP55 Moment of inertia (J) : 1.22 kgm²

Design : B

Design		: B						
Output [HP]		40	30	30	30	40	40	40
Poles	Poles		6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		46.5	43.0	41.1	40.0	57.8	55.1	53.4
L. R. Amperes [A]		298	275	296	308	283	303	320
LRC [A]		6.4x(Code	6.4x(Code	7.2x(Code H)	7.7x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A]]	16.5	16.0	17.0	17.8	16.0	17.0	17.8
Rated speed [RPN	/ 1]	1183	985	987	988	975	980	982
Slip [%]		1.42	1.50	1.30	1.20	2.50	2.00	1.80
Rated torque [kgfn	n]	24.5	22.1	22.1	22.0	29.8	29.6	29.6
Locked rotor torqu	e [%]	200	210	240	270	160	180	200
Breakdown torque	[%]	240	250	280	310	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	80 K	80 K	80 K
Locked rotor time		37s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		21s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level ²		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%							
Efficiency (%)	50%	93.6	92.4	92.3	91.9	93.0	93.0	93.0
Lincichoy (70)	75%	93.6	92.8	93.1	93.0	92.4	93.0	93.0
	100%	94.1	92.5	93.0	93.2	91.7	92.4	93.0
	25%							
Power Factor	50%	0.73	0.68	0.66	0.63	0.78	0.76	0.73
1 OWELL ACIOI	75%	0.82	0.80	0.79	0.76	0.84	0.83	0.82
	100%	0.86	0.84	0.83	0.82	0.86	0.85	0.84

Losses at normative operating points (speed:torque), in percentage of rated output power

_00000 at 110	maaro opola	mig pomico (op	000,101900), 11	. poroontago o	. ratoa oatpat	PO110.		
	P1 (0,9;1,0)	6.1	6.1	6.1	6.1	6.1	6.1	6.1
	P2 (0,5;1,0) P3 (0,25;1,0)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	P4 (0,9;0,5)	4.4	4.4	4.4	4.4	4.4	4.4	4.4
Losses (%)	P5 (0,5;0,5)	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	P6 (0,5;0,25)	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	P7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	(0,25;0,25)	0.8	0.8	0.8	0.8	0.8	0.8	0.8

Bearing type

Drive end | Non drive end | Foundation loads |
6314 C3 | 6314 C3 | Max. traction |

Lubrication interval : 17000 h 17000 h
Lubricant amount : 27 g 27 g
Lubricant type : Mobil Polyrex EM

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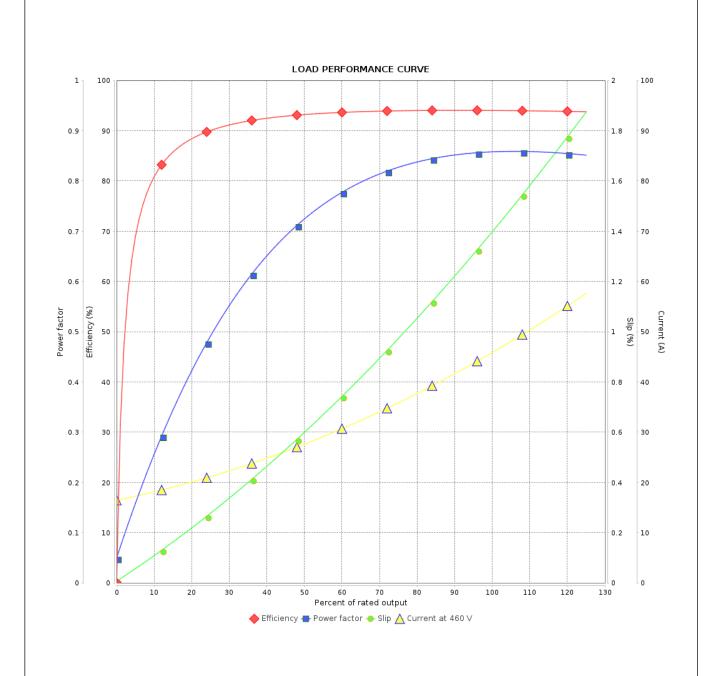
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943062



Rev.	Changes Summa	Performed	Checked	Date
Rated speed	: 1183 rpm	Design	: B	
Breakdown torque		Temperature rise	: 80 K	
Locked rotor torqu	e : 200 %	Service factor	: 1.25	
Rated torque	: 24.5 kgfm	Insulation class	Insulation class : F	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated current	: 46.5 A	Moment of inertia (J)	: 1.22 kgm²	
Performance	: 460 V 60 Hz 6P			

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Three Phase Induction Motor - Squirrel Cage



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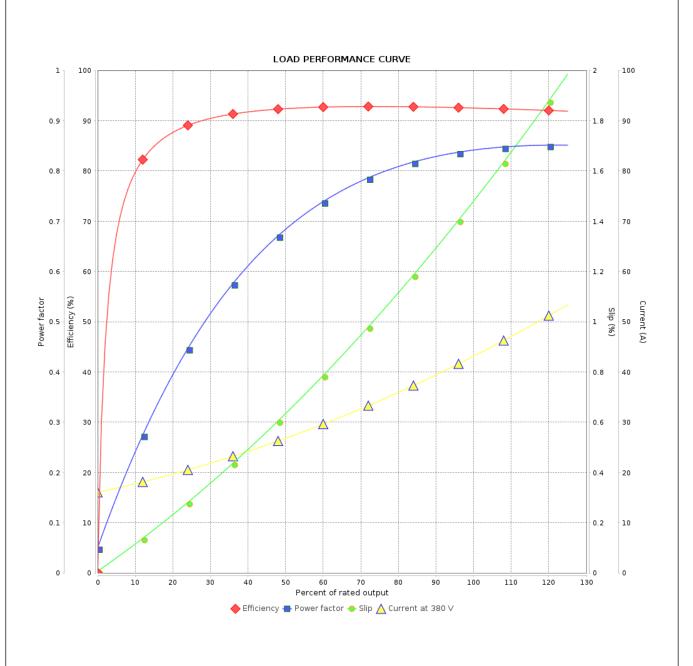
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code:

11943062

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Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.0 A : 6.4 : 22.1 kgfm : 210 % : 250 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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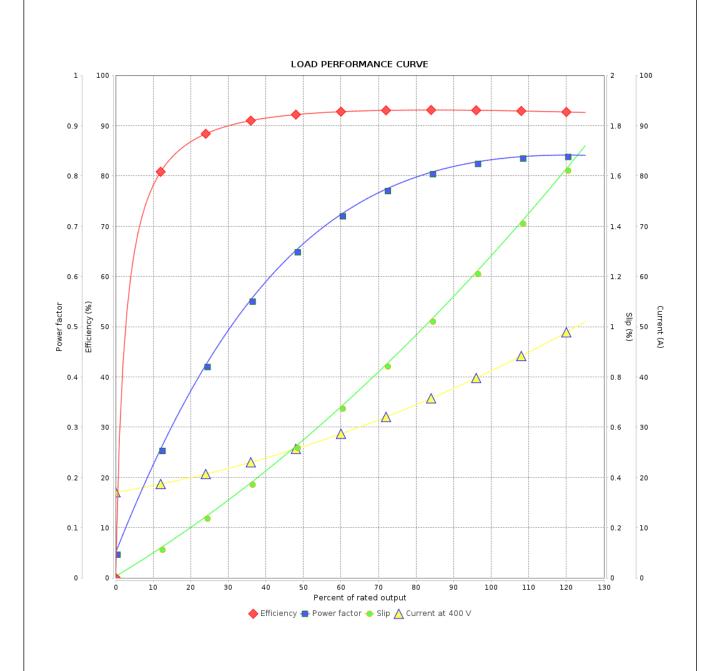
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Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943062



Rev.	Changes Summar	ry	Performed	Checked	Date		
Rated speed	: 987 rpm	Design		: B			
Breakdown torque	: 280 %	Temperatur	e rise	: 80 K			
Locked rotor torque	: 240 %	Service fact	Service factor				
Rated torque	: 22.1 kgfm	Insulation c	Insulation class		Insulation class : F		
LRC	: 7.2	Duty cycle		: Cont.(S1)			
Rated current	: 41.1 A	Moment of i	Moment of inertia (J)				
Performance	: 400 V 50 Hz 6P IE3						

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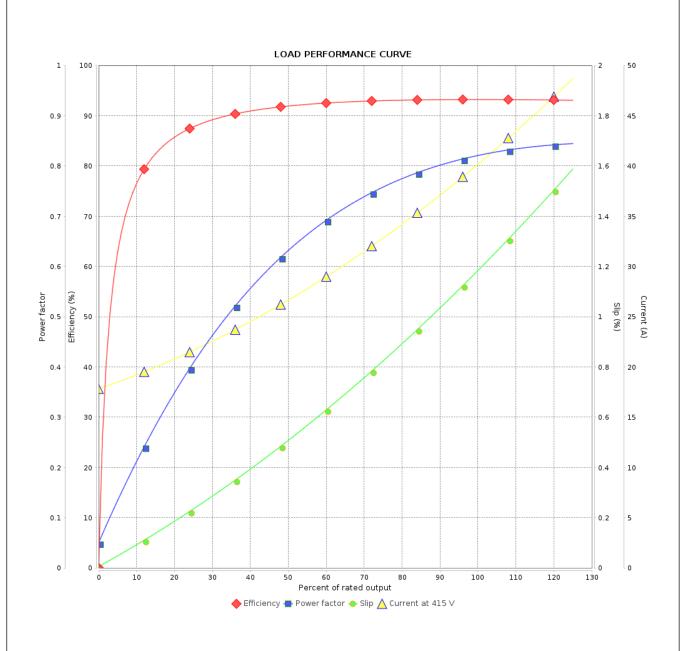


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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11943062



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: 415 V 50 Hz 6F	PIE3			
	Duty cycle Insulation of Service fac	class ctor	: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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	: 40.0 A : 7.7 : 22.0 kgfm : 270 % ue : 310 % : 988 rpm	: 7.7 Duty cycle : 22.0 kgfm Insulation of Service facture : 310 % Temperature	: 40.0 A : 7.7 : 22.0 kgfm : 270 % : 310 % : 988 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 40.0 A : 7.7 : 22.0 kgfm : 22.0 kgfm : 270 % : 310 % : 988 rpm Changes Summary Performed Checked

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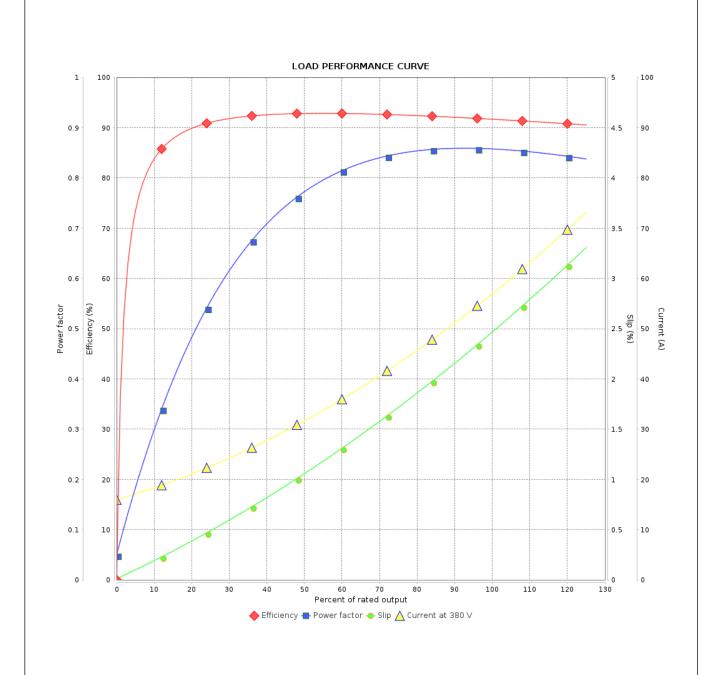
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Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11943062



Rev.	Changes Summary		Performed	Checked	Date	
Rated speed	: 975 rpm	Design		: B		
Breakdown torque	: 190 %	Temperati	ure rise	: 80 K		
Locked rotor torque	: 160 %	Service factor		: 1.00		
Rated torque	: 29.8 kgfm	Insulation class		Insulation class : F		
LRC	: 4.9	Duty cycle	9	: Cont.(S1)		
Rated current	: 57.8 A	Moment of	f inertia (J)	: 1.22 kgm²		
Performance	: 380 V 50 Hz 6P IE2					

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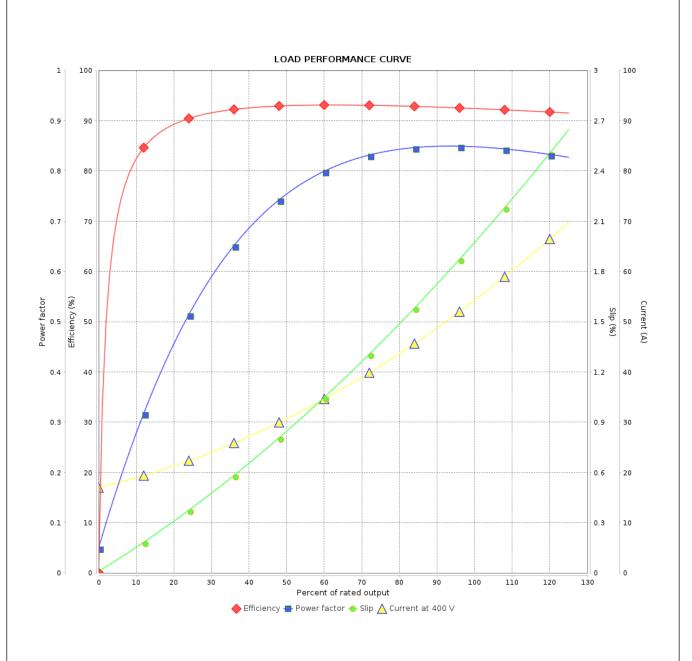
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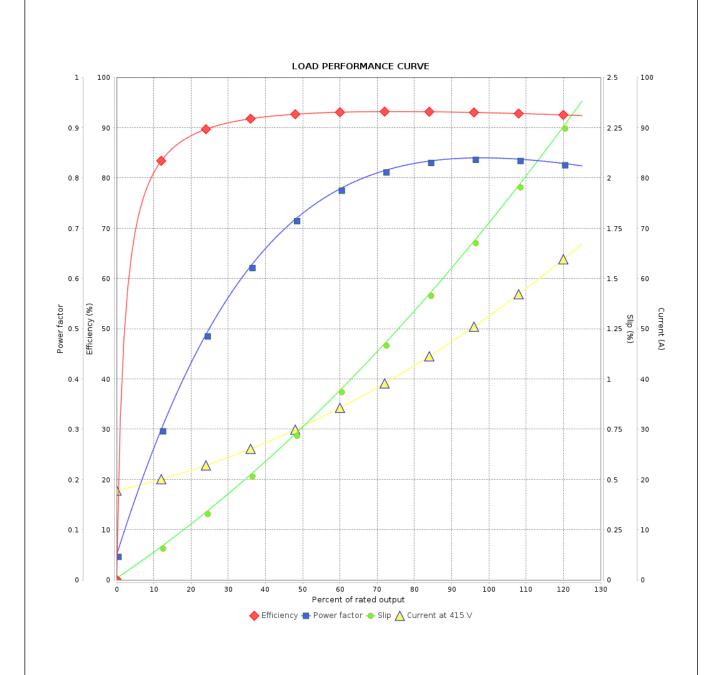
Performance : 40		: 400 V 50 Hz 6P IE2					
Rated current		5.1 A	Moment of	Moment of inertia (J)			
LRC	: 5.	5.5 Duty cycle 29.6 kgfm Insulation class 180 % Service factor		Э	: Cont.(S1)		
Rated torque	: 29			lation class	: F		
Locked rotor torqu	ue : 18			actor	: 1.00		
Breakdown torque	down torque : 210 % Temperature rise		ure rise	: 80 K			
Rated speed	: 98	: 980 rpm			: B		
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Performance		: 415 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 53.4 A : 6.0 : 29.6 kgfm : 200 % : 229 % : 982 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.22 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	: Cont.(S1) : F : 1.00 : 80 K	
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