### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11941735

: 324T Cooling method : IC411 - TEFC Frame

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 0.4843 kgm<sup>2</sup>

Design		: B						
Output [HP]		25	20	20	20	25	25	25
Poles		6	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]		30.4	30.0	29.4	28.6	36.3	35.1	34.2
L. R. Amperes [A]		182	174	185	194	171	183	192
LRC [A]		6.0x(Code G)	5.8x(Code G)	6.3x(Code H)	6.8x(Code H)	4.7x(Code D)	5.2x(Code F)	5.6x(Code F)
No load current [A	]	12.5	12.3	13.3	14.2	12.3	13.3	14.2
Rated speed [RPM]		1175	970	975	980	965	970	975
Slip [%]		2.08	3.00	2.50	2.00	3.50	3.00	2.50
Rated torque [kgfr		15.4	15.0	14.9	14.8	18.8	18.7	18.6
Locked rotor torqu		210	200	229	250	160	180	190
Breakdown torque	[%]	250	240	280	300	190	220	240
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		46s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		26s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%							
Efficiency (%)	50%	91.7	91.1	91.1	91.1	91.7	91.7	91.7
	75%	93.0	91.8	92.2	92.2	91.7	92.4	92.4
	100%	93.0	91.6	92.2	92.2	91.0	91.7	91.7
	25%							
Power Factor	50%	0.65	0.63	0.60	0.57	0.71	0.68	0.65
1 0.10. 1 40.01	75%	0.77	0.76	0.74	0.71	0.81	0.79	0.77
	100%	0.82	0.83	0.80	0.79	0.85	0.83	0.82

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

LOSSES at no	illiative operat	ing points (sp	cca,torque), ii	i percentage o	rated output	power		
	P1 (0,9;1,0)	8.2	10.1	9.3	9.3	10.9	9.9	9.9
	P2 (0,5;1,0) P3 (0,25;1,0)	6.8	8.6	7.8	7.8	9.4	8.5	8.5
	P4 (0,9;0,5)	6.3	8.1	7.3	7.3	8.9	7.9	7.9
Losses (%)	P5 (0,5;0,5)	4.4	5.2	4.9	4.9	5.6	5.2	5.2
	P6 (0,5;0,25)	3.0	3.7	3.4	3.4	4.0	3.7	3.7
	P7	2.2	2.7	2.5	2.5	2.9	2.6	2.6
	(0,25;0,25)	1.5	1.9	1.7	1.7	2.0	1.8	1.8

Non drive end Foundation loads Drive end Bearing type 6312 C3 6212 C3 Max. traction : 562 kgf Sealing Taconite Taconite Max. compression : 562 kgf

Labyrinth Labyrinth Lubrication interval 20000 h 20000 h 13 g Lubricant amount 21 g

Lubricant type Mobil Polyrex EM

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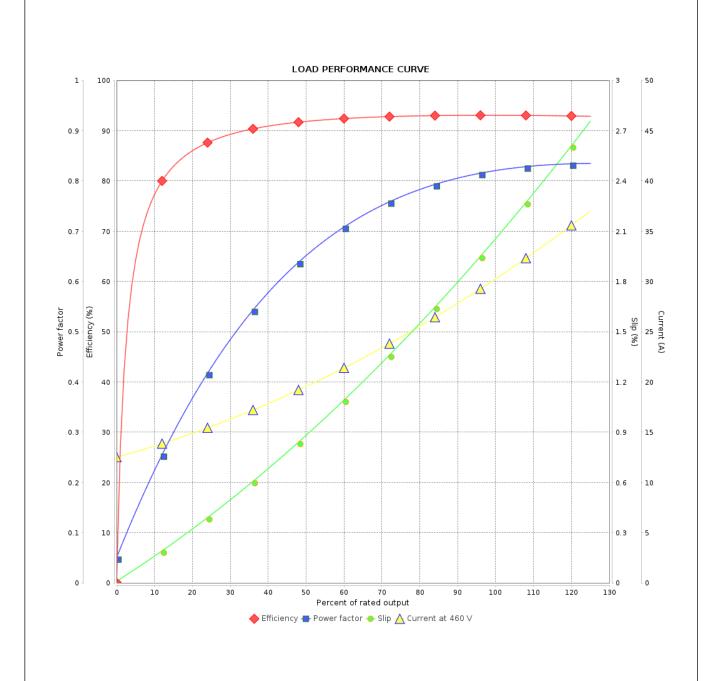


Customer :

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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11941735

Three-Phase



Performance	: 460 V 60 Hz 6P					
Rated current	: 30.4 A	Moment of	inertia (J)	: 0.4843 kgm²		
LRC	: 6.0	Duty cycle		: Cont.(S1)		
Rated torque	: 15.4 kgfm	Insulation class		Insulation class : F		
Locked rotor torque	: 210 %	Service factor		: 1.25		
Breakdown torque	: 250 %	Temperatu	re rise	: 80 K		
Rated speed	: 1175 rpm	Design		: B		
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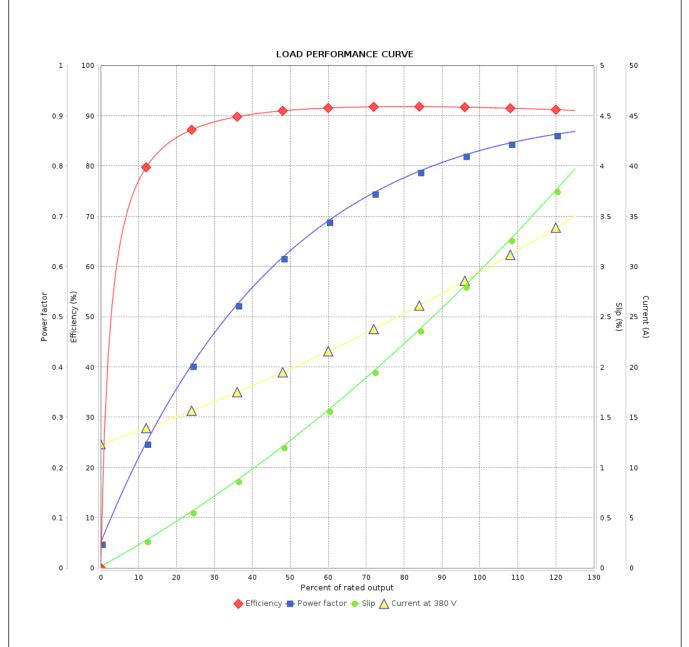
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11941735



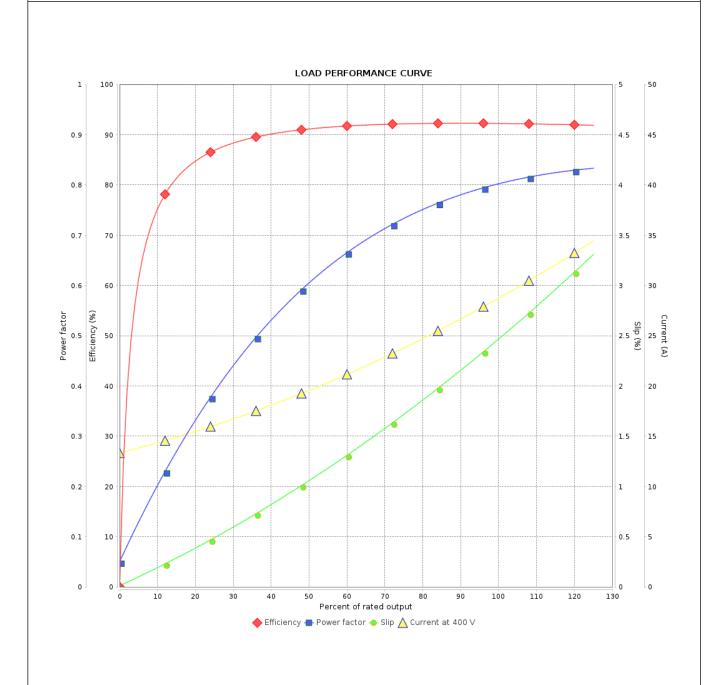
Performance : 380 V 50 Hz 6P IE3 : 30.0 A : 0.4843 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 15.0 kgfm : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11941735



Performance	: 4	00 V 50 Hz 6P IE3	) V 50 Hz 6P IE3			
Rated current	: 2	29.4 A Moment of inertia (J)		of inertia (J)	: 0.4843 kgm²	2
LRC	: 6	.3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 1	4.9 kgfm	Insulation	class	: F	
Locked rotor torq	ocked rotor torque : 229 % Service fact		ictor	: 1.15		
Breakdown torqu	ie : 2	80 %	Temperati	Temperature rise		
Rated speed	: 9	: 975 rpm		Design		
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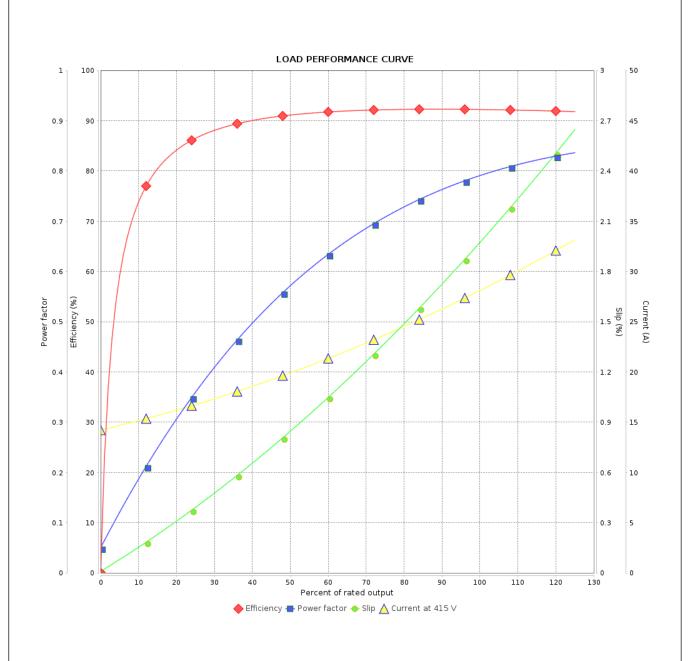
Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

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Performance	: 415 V 50 Hz 6P IE3	: 415 V 50 Hz 6P IE3			
Rated current : 28.6 A		Moment of inertia (J)		: 0.4843 kgm²	
LRC	: 6.8	Duty cycle	9	: Cont.(S1)	
Rated torque	: 14.8 kgfm	Insulation	class	: F	
Locked rotor torque	: 250 %	Service fa	ictor	: 1.15	
Breakdown torque	: 300 %	Temperature rise Design		: 80 K	
Rated speed	: 980 rpm			: B	
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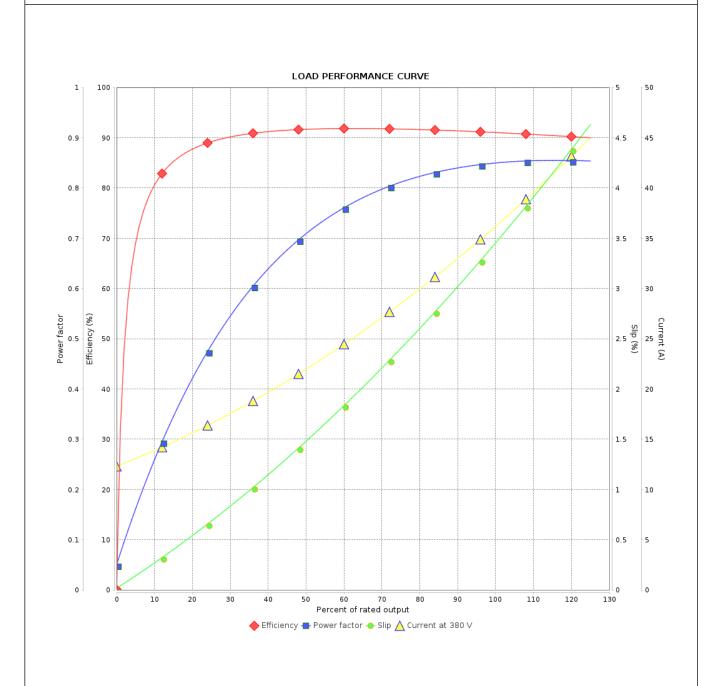
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11941735

Three-Phase



Performance	: 380 V 50 Hz 6P IE2			
Rated current	: 36.3 A	1	Moment of inertia (J) : 0.4843 kgm²	
LRC	: 4.7	Duty cycle	: Cont.(S1)	
Rated torque	: 18.8 kgfm	Insulation class	: F	
Locked rotor tord	que : 160 %	Service factor	: 1.00	
Breakdown torqu	ıe : 190 %	Temperature rise	: 80 K	
Rated speed	: 965 rpm	Design	: B	
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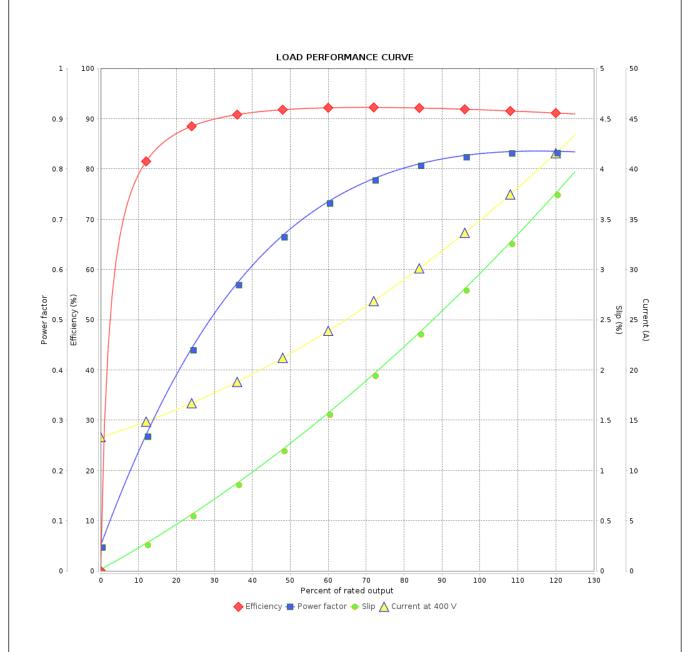
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Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.1 A : 5.2 : 18.7 kgfm : 180 % : 220 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4843 kgm <sup>2</sup> : Cont.(S1) : F : 1.15 : 80 K : B	2
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#### Three Phase Induction Motor - Squirrel Cage



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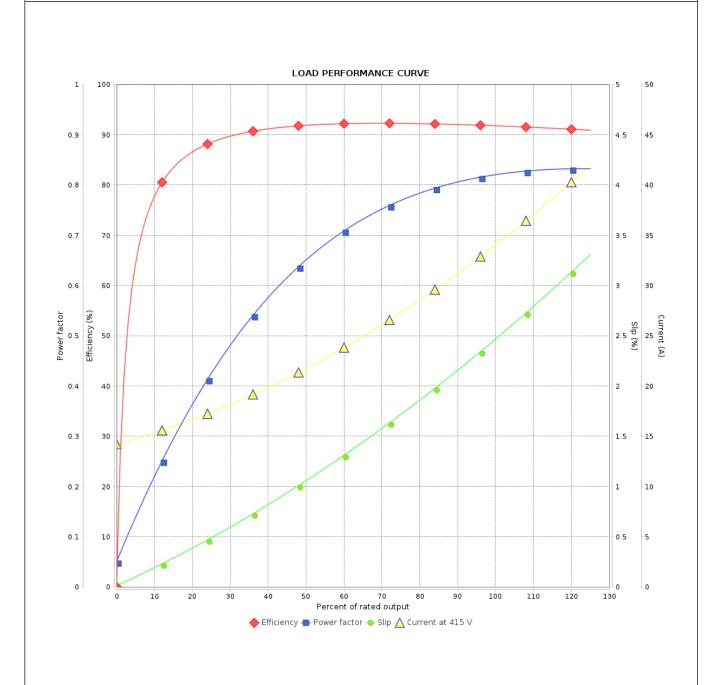
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11941735

Three-Phase



Performance		: 415 V 50 Hz 6	P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		: 34.2 A : 5.6 : 18.6 kgfm : 190 % : 240 % : 975 rpm	gfm Duty cyc Insulatio Service Tempera		class ctor	: 0.4843 kgm <sup>2</sup> : Cont.(S1) : F : 1.15 : 80 K : B	2
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