# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



#### Customer

Frame Insulation class Duty cycle Ambient temperatu Altitude Protection degree Design Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] Locked rotor torque Breakdown torque [ Service factor Temperature rise Locked rotor time Noise level <sup>2</sup> Efficiency (%) Power Factor	25% 50% 75% 100%	: 449T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : A 300 4 60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	Cooling meth Mounting Rotation <sup>1</sup> Starting meth Approx. weig Moment of in 250 4 50 380 337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot) 0.0 dB(A)	hod ght <sup>3</sup>	: F-1 : Both : Direct : 1417 : 3.77			
Duty cycle Ambient temperatu Altitude Protection degree Design Dutput [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] R. Amperes [A] R. Amperes [A] R. Amperes [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] .ocked rotor torque Breakdown torque [ Service factor Femperature rise .ocked rotor time Noise level <sup>2</sup> Efficiency (%)	25% 50% 75% 100%	: Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : A 300 4 60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	Rotation <sup>1</sup> Starting meth           Approx. weig           Moment of in           250           4           50           380           337           2460           3x(Code J)           114           1485           1.00           280           1.00           80 K           cold) 14s (hot)	ght <sup>3</sup> hertia (J) 25 4 50 40 32 255 8.0x(C 12 144 1.0 12 29 30 1.0 80 255 (cold)	: Both : Direc : 1417 : 3.77	ct On Line 7 kg kgm² 250 4 50 415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
Ambient temperatu Altitude Protection degree Design Dutput [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] R. Amperes [A] RC [A] No load current [A] Rated speed [RPM] Silip [%] Rated torque [kgfm] .ocked rotor torque Breakdown torque [ Service factor Femperature rise .ocked rotor time Noise level <sup>2</sup> Efficiency (%)	25% 50% 75% 100%	: -20°C to +40°C : 1000 m.a.s.l. : IP55 : A 300 4 60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	Starting meth           Approx. weig           Moment of in           250           4           50           380           337           2460           3x(Code J)           114           1485           1.00           280           1.00           80 K           cold) 14s (hot)	ght <sup>3</sup> hertia (J) 25 4 50 40 32 255 8.0x(C 12 144 1.0 12 29 30 1.0 80 255 (cold)	: Direc : 1417 : 3.77 : 3.77 : 0 : 0 : 0 : 0 : 0 : 1 : 1 : 3 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0	ct On Line 7 kg kgm² 250 4 50 415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
Altitude Protection degree Design Dutput [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] R. Amperes [A] RC [A] No load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] .ocked rotor torque Breakdown torque [ Service factor Femperature rise .ocked rotor time Noise level <sup>2</sup> Efficiency (%)	25% 50% 75% 100%	: 1000 m.a.s.l. : IP55 : A 300 4 60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	Approx. weig Moment of in 250 4 50 380 337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	ght <sup>3</sup> hertia (J) 25 4 50 40 32 255 8.0x(C 12 144 1.0 12 29 30 1.0 80 255 (cold)	: 1417 : 3.77	7 kg kgm² 250 4 50 415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
Protection degree Design Dutput [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] R. Amperes [A] R. Amperes [A] No load current [A] Rated speed [RPM] Bilip [%] Rated torque [kgfm] .ocked rotor torque Breakdown torque [ Service factor Temperature rise .ocked rotor time Noise level <sup>2</sup> Efficiency (%)	] 〕 〕 [%] [%] 25% 50% 75% 100%	: IP55 : A 300 4 60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	Moment of in 250 4 50 380 337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	nertia (J)	: 3.77	kgm <sup>2</sup> 250 4 50 415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
Design Dutput [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] R. Amperes [A] RC [A] No load current [A] Rated speed [RPM] Silip [%] Rated torque [kgfm] .ocked rotor torque Breakdown torque [ Service factor Temperature rise .ocked rotor time Noise level <sup>2</sup> Efficiency (%)	] 〕 〕 [%] [%] 25% 50% 75% 100%	: A 300 4 60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	250 4 50 380 337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	255 4 40 32 255 8.0x(C 12 144 1.0 12 29 30 1.0 80 255 (cold)	50 50 50 50 54 52 50 50 52 50 50 50 50 50 50 50 50 50 50	250 4 50 415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
Dutput [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] R. Amperes [A] RC [A] No load current [A] Rated speed [RPM] Blip [%] Rated torque [kgfm] .ocked rotor torque Breakdown torque [ Service factor Temperature rise .ocked rotor time Noise level <sup>2</sup> Efficiency (%)	] ⇒ [%] [%] 25% 50% 75% 100%	300 4 60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A)	25s (0	4 50 380 337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	40 50 40 32 255 8.0x(C 12 144 110 12 29 30 1.0 80 25s (cold)	0 0 0 44 92 0 0 5 5 0 0 22 0 0 0 0 0 0 0 0 0 0 0 K 1 4s (hot)	4 50 415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
Poles Frequency [Hz] Rated voltage [V] Rated current [A] R. Amperes [A] R. Amp	] ⇒ [%] [%] 25% 50% 75% 100%	4 60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	4 50 380 337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	40 50 40 32 255 8.0x(C 12 144 110 12 29 30 1.0 80 25s (cold)	0 0 0 44 92 0 0 5 5 0 0 22 0 0 0 0 0 0 0 0 0 0 0 K 1 4s (hot)	4 50 415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
requency [Hz] Rated voltage [V] Rated current [A] R. Amperes [A] R. Amperes [A] lo load current [A] Rated speed [RPM] Blip [%] Rated torque [kgfm] ocked rotor torque Breakdown torque [ Service factor emperature rise ocked rotor time loise level <sup>2</sup> Efficiency (%)	] ⇒ [%] [%] 25% 50% 75% 100%	60 230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	50 380 337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	50 40 32 255 8.0x(C 12 144 144 1.0 12 29 30 1.0 80 25s (cold)	0 0 4 92 0 0 1 1 35 00 12 00 00 10 K 14s (hot)	50 415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
Rated voltage [V] Rated current [A] R. Amperes [A] IRC [A] No load current [A] Rated speed [RPM] Blip [%] Rated torque [kgfm] ocked rotor torque Breakdown torque [ Service factor emperature rise ocked rotor time Noise level <sup>2</sup>	] ⇒ [%] [%] 25% 50% 75% 100%	230/460 668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	380 337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	40 32 259 8.0x(C 12 144 144 110 12 29 30 10 1.0 255 (cold)	00 24 92 ode J) 21 85 00 22 00 00 00 K 14s (hot)	415 315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
Rated current [A] R. Amperes [A] R. [A] RC [A] lo load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] .ocked rotor torque Breakdown torque [ Service factor Temperature rise .ocked rotor time loise level <sup>2</sup> Efficiency (%)	] ⇒ [%] [%] 25% 50% 75% 100%	668/334 5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	337 2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	32 32 8.0x(C 12 14 14 1.0 29 30 1.0 80 25s (cold)	24 92 ode J) 21 85 00 22 00 00 K 14s (hot)	315 2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
R. Amperes [A] RC [A] Jo load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] ocked rotor torque Breakdown torque [ Service factor emperature rise ocked rotor time loise level <sup>2</sup>	] ⇒ [%] [%] 25% 50% 75% 100%	5344/2672 8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	2460 3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	255 8.0x(C 12 14 14 1.0 29 30 1.0 80 25s (cold)	92 ode J) 11 85 00 22 00 00 00 K 14s (hot)	2741 8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
RC [A] lo load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] ocked rotor torque Breakdown torque [ Service factor emperature rise ocked rotor time loise level <sup>2</sup> Efficiency (%)	] ⇒ [%] [%] 25% 50% 75% 100%	8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	8.0x(C 12 144 1.0 29 30 30 1.0 80 25s (cold)	ode J) 21 85 00 22 00 00 00 K 14s (hot)	8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
RC [A] lo load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] ocked rotor torque Breakdown torque [ Service factor emperature rise ocked rotor time loise level <sup>2</sup> Efficiency (%)	] ⇒ [%] [%] 25% 50% 75% 100%	8.0x(Code J) 230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	3x(Code J) 114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	8.0x(C 12 144 1.0 29 30 30 1.0 80 25s (cold)	ode J) 21 85 00 22 00 00 00 K 14s (hot)	8.7x(Code K 136 1490 0.67 122 320 340 1.00 80 K		
lo load current [A] Rated speed [RPM] Slip [%] Rated torque [kgfm] ocked rotor torque Breakdown torque [ Bervice factor emperature rise ocked rotor time loise level <sup>2</sup> Efficiency (%)	] ⇒ [%] [%] 25% 50% 75% 100%	230/115 1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4	25s (0	114 1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	12 144 1.0 12 29 30 1.0 80 25s (cold)	1 85 00 22 00 00 00 K 14s (hot)	136 1490 0.67 122 320 340 1.00 80 K		
Rated speed [RPM] Slip [%] Rated torque [kgfm] ocked rotor torque Breakdown torque [ Bervice factor emperature rise ocked rotor time loise level <sup>2</sup> Efficiency (%)	] ⇒ [%] [%] 25% 50% 75% 100%	1785 0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4		1485 1.00 122 260 280 1.00 80 K cold) 14s (hot)	144 1.0 12 29 30 1.0 80 25s (cold)	85 00 22 00 00 00 K 14s (hot)	1490 0.67 122 320 340 1.00 80 K		
Slip [%] Rated torque [kgfm] ocked rotor torque Breakdown torque [ Service factor emperature rise ocked rotor time loise level <sup>2</sup> Efficiency (%)	] ⇒ [%] [%] 25% 50% 75% 100%	0.83 122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4		1.00 122 260 280 1.00 80 K cold) 14s (hot)	1.0 12 29 30 1.0 80 25s (cold)	00 22 00 00 00 K 14s (hot)	0.67 122 320 340 1.00 80 K		
Rated torque [kgfm] ocked rotor torque Breakdown torque [ Service factor emperature rise ocked rotor time loise level <sup>2</sup> Efficiency (%)	25% 50% 75% 100%	122 280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4		122 260 280 1.00 80 K cold) 14s (hot)	12 29 30 1.( 80 25s (cold)	2 00 00 00 K 14s (hot)	122 320 340 1.00 80 K		
Ocked rotor torque Breakdown torque [ Service factor emperature rise Ocked rotor time Noise level <sup>2</sup> Efficiency (%)	25% 50% 75% 100%	280 290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4		260 280 1.00 80 K cold) 14s (hot)	29 30 1.( 80 25s (cold)	0 0 00 K 14s (hot)	320 340 1.00 80 K		
Breakdown torque [ Service factor emperature rise ocked rotor time loise level <sup>2</sup> Efficiency (%)	[%] 25% 50% 75% 100%	290 1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4		280 1.00 80 K cold) 14s (hot)	30 1.0 80 25s (cold)	00 00 K 14s (hot)	340 1.00 80 K		
Service factor emperature rise ocked rotor time Noise level <sup>2</sup> Efficiency (%)	25% 50% 75% 100%	1.15 80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4		1.00 80 K cold) 14s (hot)	1.0 80 25s (cold)	00 K 14s (hot)	1.00 80 K		
Temperature rise Locked rotor time Noise level <sup>2</sup>	50% 75% 100%	80 K 25s (cold) 14s (hot) 80.0 dB(A) 95.4		80 K cold) 14s (hot)	80 25s (cold)	K 14s (hot)	80 K		
ocked rotor time Noise level <sup>2</sup>	50% 75% 100%	25s (cold) 14s (hot) 80.0 dB(A) 95.4		cold) 14s (hot)	25s (cold)	14s (hot)			
Noise level <sup>2</sup> Efficiency (%)	50% 75% 100%	80.0 dB(A) 95.4					$\perp$ ZOS ICOIOL 14S (		
Efficiency (%)	50% 75% 100%	95.4	8	0.0 UD(A)	00.00		80.0 dB(A)		
	50% 75% 100%	1				ID(A)	00.0 UB(A)		
	75% 100%	1	1	95.4	05.4		05.4		
	100%				95.4		95.4		
Power Factor		95.8	95.8		95.8		96.2		
Power Factor	0=0/	96.2	95.8		95.8		96.2		
Power Factor	25%	<b></b>							
	50%	0.74		0.75	0.72		0.69		
	75%	0.83		0.83	3.0		0.79		
	100%	0.86		0.87	3.0	36	0.85		
Bearing type		NU-322 C3 6319 C3		Max. traction :		: 2913	: 2913 kgf		
Sealing		: Viton Vito	Viton Viton Seal		Max. compression : 4330 kgf				
-		Oil Seal					-		
Lubrication interva	al		)38 h						
Lubricant amount		: 60 g 4	l5 g						
Lubricant type		: Mobil Polyrex E	EM						
Notes USABLE @208V 7	739A SF 1.0	0 SFA 739A							
must be eliminated (1) Looking the mo	d. otor from the m and with to eight subjec cess.	olerance of +3dB(A).	nich				ests with sinusoida s stipulated in NEI		
Rev. Changes Summary				P	Performed	Checke	ed Date		
Performed by									
Checked by						Page	Revisio		
Date	13/01/2024					Page 1/6	REVISIC		

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#### DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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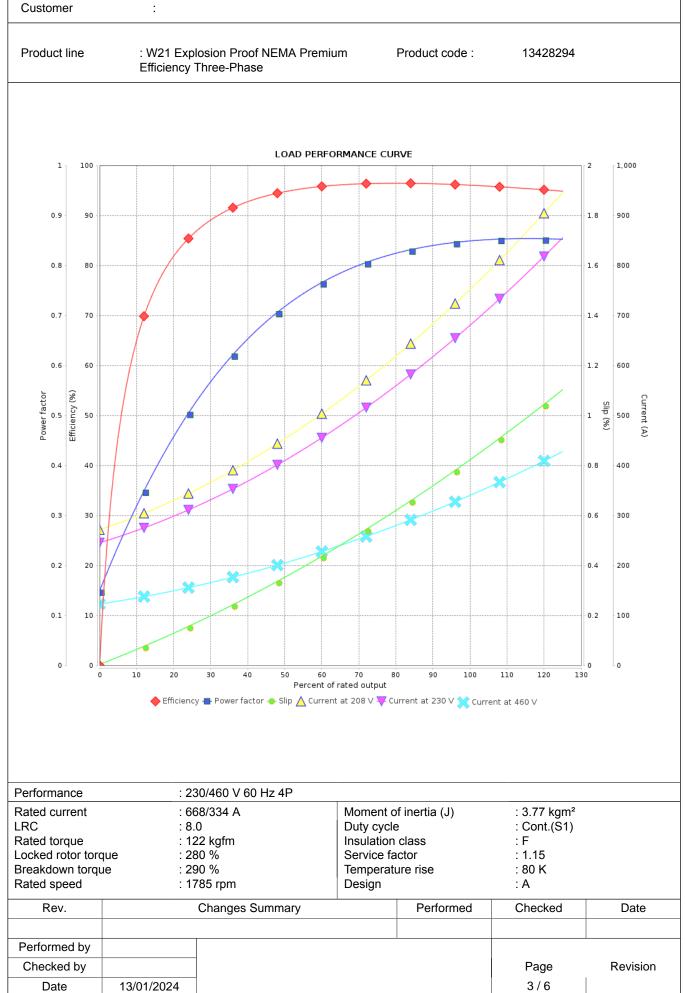
Customer

ID	Application	Туре	Sensing Temperatur		
1	Winding	Thermostat - 2 wires	Quantity           1 x Phase	1	55 °C
-					
Deri	0	Cummoni	Deut	Oha sha t	Det
Rev.	Changes	Summary	Performed	Checked	Date
erformed by					
hecked by				Page	Revision
Date	13/01/2024			2/6	
				<pre>//1)</pre>	



Three Phase Induction Motor - Squirrel Cage





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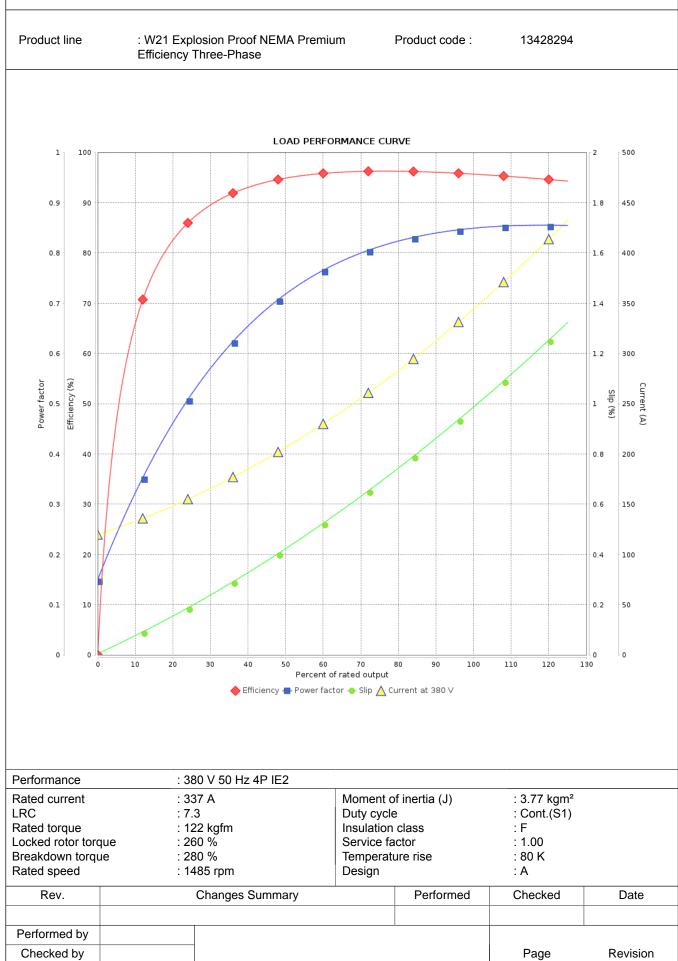
:



Customer

Date

13/01/2024



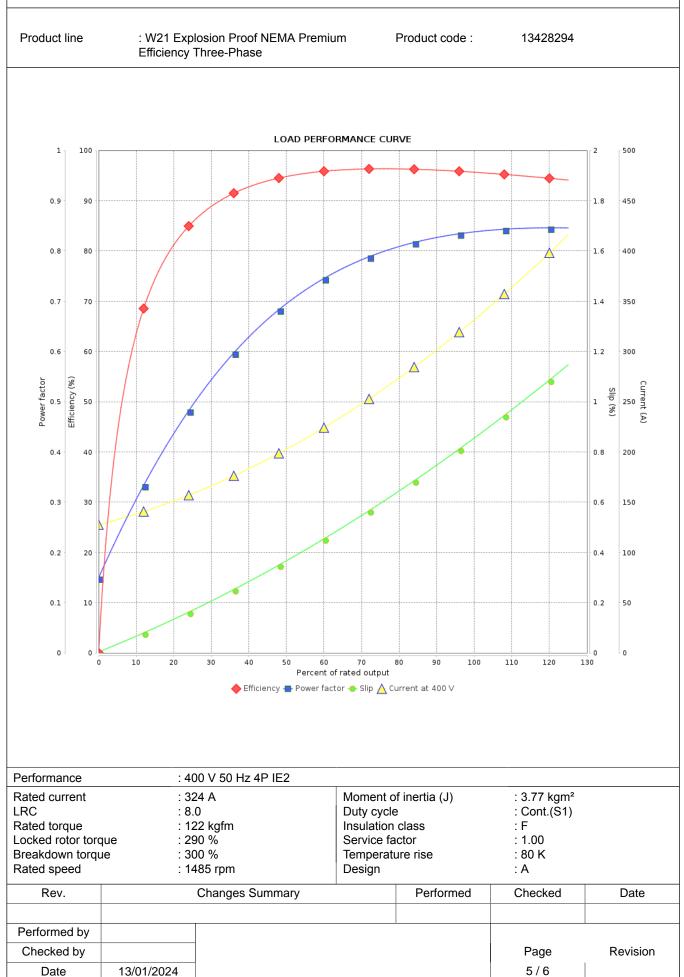
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4/6

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Three Phase Induction Motor - Squirrel Cage

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Customer

Date

13/01/2024

Product line : W21 Explosion Proof NEMA Premium Product code : 13428294 Efficiency Three-Phase LOAD PERFORMANCE CURVE 100 500 1 450 0.9 90 1.8 1.6 400 0.8 80 350 1.4 0.7 70  $\wedge$  $\Delta$ 0.6 60 1.2 300  $\Delta$ Power factor Efficiency (%) 250 (A) Slip (%) 0.5 1 50 0.4 40 0.8 200  $\triangle$ 0.3 30 0.6 150 Λ 0.2 20 0.4 100 0.1 10 0.2 50 0 0 0 0 10 20 30 100 110 120 130 Ó 40 50 60 70 80 90 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛆 Current at 415 V Performance : 415 V 50 Hz 4P IE3 Rated current : 315 A Moment of inertia (J) : 3.77 kgm<sup>2</sup> LRC Duty cycle : Cont.(S1) : 8.7 Insulation class Rated torque : 122 kgfm : F Locked rotor torque : 320 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1490 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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6/6