## DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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Product line	: '	W22 Tru	u-Metric IE3 Thre	e-Phase	F	Product code :	14163055		
Frame Insulation class		:	: 180L : F : S1		Cooling method Mounting		: IC411 - TEFC : B35L(E) : Beth (CM) and CCM)		
Duty cycle Ambient tempera	aturo		: -20°C to +40°C		Rotation <sup>1</sup> Starting		: Both (CW and CCW) : Direct On Line		
Altitude	luie		: 1000 m.a.s.l.		Approx.		: Direct On Line : 220 kg		
Protection degree	e		: IP55			of inertia (J)	: 0.2272 kgm <sup>2</sup>		
Design	5		: IP55 : N		Momon		. 0.2272 kg		
Output [HP]			30		30		30		
oles			4		4		4		
requency [Hz]			50		50		60		
Rated voltage [V]			380		415		230/460		
Rated current [A]			42.3		40.4		72.0/36.0		
R. Amperes [A]			317		351		684/342		
_RC [A]			7.5		8.7			9.5	
lo load current [A			16.5		19.5			3.6/16.8	
Rated speed [RPN	1]		1470		1475		1778		
Slip [%]	-1		2.00		1.67		1.22		
Rated torque [kgfn			14.8		14.8		12.2		
ocked rotor torqu			270		340		360		
Breakdown torque	[%]		300		360		380		
Service factor			1.25		1.25		1.25		
Temperature rise			80 K		80 K		80 K		
Locked rotor time			21s (cold) 12s (hot) 61.0 dB(A)		21s (cold) 12s (hot) 61.0 dB(A)		32s (cold) 18s (hot) 63.0 dB(A)		
	25%	2/2	01.0 0D(	(A)		51.0 UB(A)	03.	.0 UB(A)	
	50%		90.2		90.2		91.0		
Efficiency (%)	75%		90.2		90.2		91.0		
	100		93.0		93.2		93.6		
	25%								
	50%				0.62			0.65	
Power Factor	75%	%	0.80			0.74	0.76		
		1%	0.85		0.81		0.82		
Losses at normati	ive oner	rating pr	oints (speed:torg	ue), in percer	ntage of rat	ed output power			
			1 (0,9;1,0)		.2	7.0		6.5	
	F				.5 5.3		5.0		
	-		3 (0,25;1,0)	4.9		4.7	4.4		
Losses (%)	F		4 (0,9;0,5)		4.2 4.1		3.8		
. ,	F		5 (0,5;0,5)		.7 2.6		2.4		
	F	P6			.0 2.0		1.8		
			(0,25;0,25)	1	.3	1.3		1.2	
				on drive end	Foundatio	on loads	· · ·		
Bearing type Sealing		:	6311 C3	6211 C3	Max. traction		: 557 kgf : 776 kgf		
		:	: V'Ring V'Ring		Max. com	pression			
Lubrication interval		:	: 20000 h 20000 h				-		
Lubricant amount		:	: 18 g 11 g						
Lubricant type :			Mobil Polyrex EM						
This revision repla		d cance	I the previous or	ie, which		e average values			
must be eliminated. (1) Looking the motor from the shaft end.			<i>c</i> , ,		power supply, subject to the tolerances stipulated in NEMA				
				,	MG-1.				
(2) Measured at 1				<b>ι</b> ).					
(3) Approximate v manufacturing pro			o changes alter						
(4) At 100% of ful									
Rev.	Changes Summary				Performed	Checked	Date		
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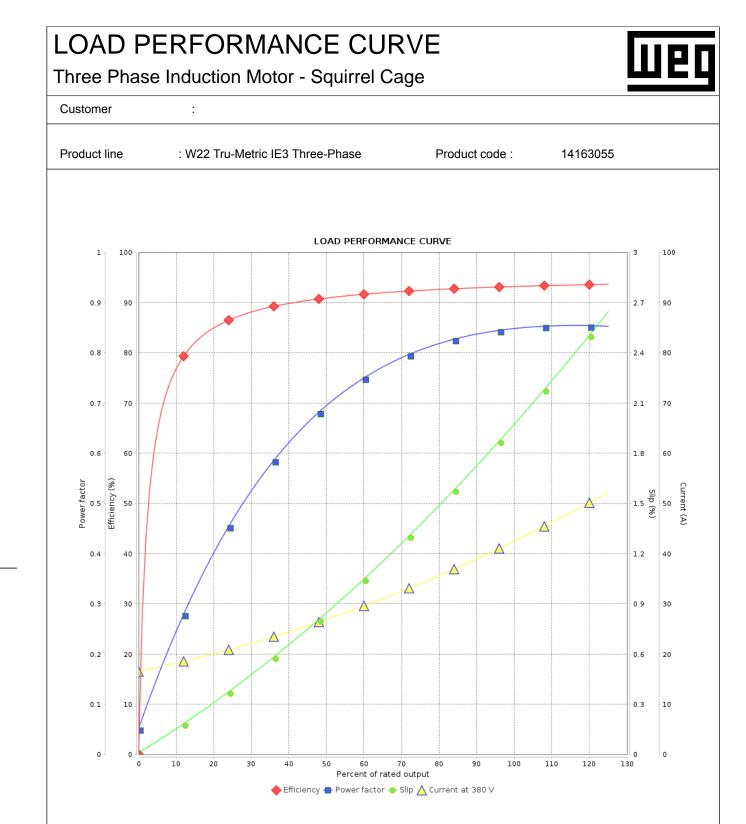
Customer

Notes

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Rev.		Changes Summary	Performed	Checked	Date
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Checked by				Page	Revision
Date	14/01/2024			2/5	

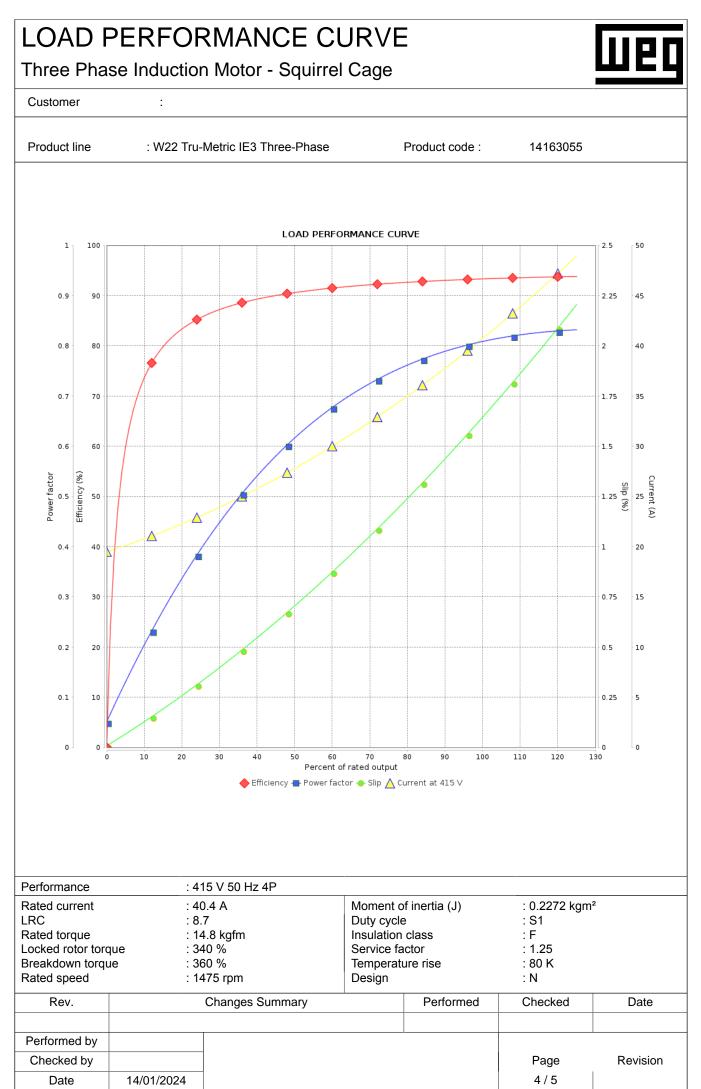
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Performance		: 380 V 50 Hz 4P						
Rated current				of inertia (J)	: 0.2272 kgm²			
LRC				: S1				
Rated torque		4.8 kgfm	Insulation class		: F			
Locked rotor torque		270 %		Service factor		: 1.25		
Breakdown torque	:3	800 %	Temperature rise		: 80 K			
Rated speed	: 1	470 rpm	Design		: N			
Rev.	v. Changes Summary		ry	Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	14/01/2024				3/5			

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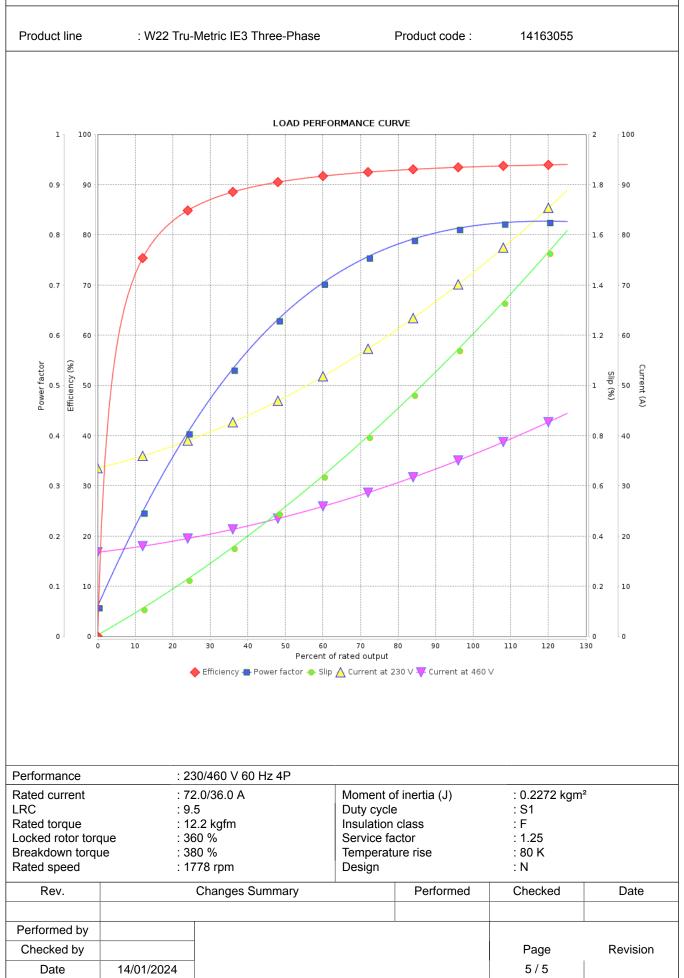
## LOAD PERFORMANCE CURVE

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