DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 16572113

Frame	: 200L	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B35L(E)
Duty cycle	: Cont.(S1)	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Inverter
Altitude	: 1000 m	Approx. weight	: 258 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.3469 kgm²
Design	: N		

Output		40 HP (30 kW)	40 HP (30 kW)	40 HP (30 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	380 V	415 V
Rated current		98.8/49.4 A	58.0 A	55.7 A
L. R. Amperes		909/454 A	423 A	457 A
LRC		9.2 Code L	7.3 Code H	8.2 Code K
No load current		51.0/25.5 A	24.5 A	27.0 A
Rated speed		1785 rpm	1480 rpm	1485 rpm
Slip		0.83 %	1.33 %	1.00 %
Rated torque		16.3 kgfm	19.6 kgfm	19.5 kgfm
Locked rotor torque		340 %	250 %	310 %
Breakdown torque		350 %	280 %	310 %
Service factor		1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K
Noise level		66 dB(A)	63 dB(A)	63 dB(A)
Locked rotor time		13 s (hot) 23 s (cold)	11 s (hot) 20 s (cold)	9 s (hot) 16 s (cold)
Efficiency (%)	50%	92.6	93.4	92.8
	75%	93.7	93.7	93.3
	100%	94.1	93.6	93.6
Power Factor	Start	0.45	0.42	0.42
	50%	0.63	0.69	0.60
	75%	0.75	0.79	0.72
	100%	0.81	0.84	0.8
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		6.03	6.58	6.58
P2 (0,5;1,0)		4.71	5.14	5.14
P3 (0,25;1,0)		4.25	4.64	4.64
P4 (0,9;0,5)		3.55	3.87	3.87
P5 (0,5;0,5)		2.33	2.54	2.54
P6 (0,5;0,25)		1.77	1.93	1.93
P7 (0,25;0,25)		1.20	1.31	1.31

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 623 kgf
Max. compression : 881 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				05/04/2022

Performed by	amandal	97150/2022	
Checked by	JUNIORP	Page	Revision
Date	05/04/2022	1/5	0

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Operation limits with inverter 6 Hz to 60 Hz (Variable torque) : 16,0 kgfm	

Notes:

Standards

Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Test	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

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				05/04/2022

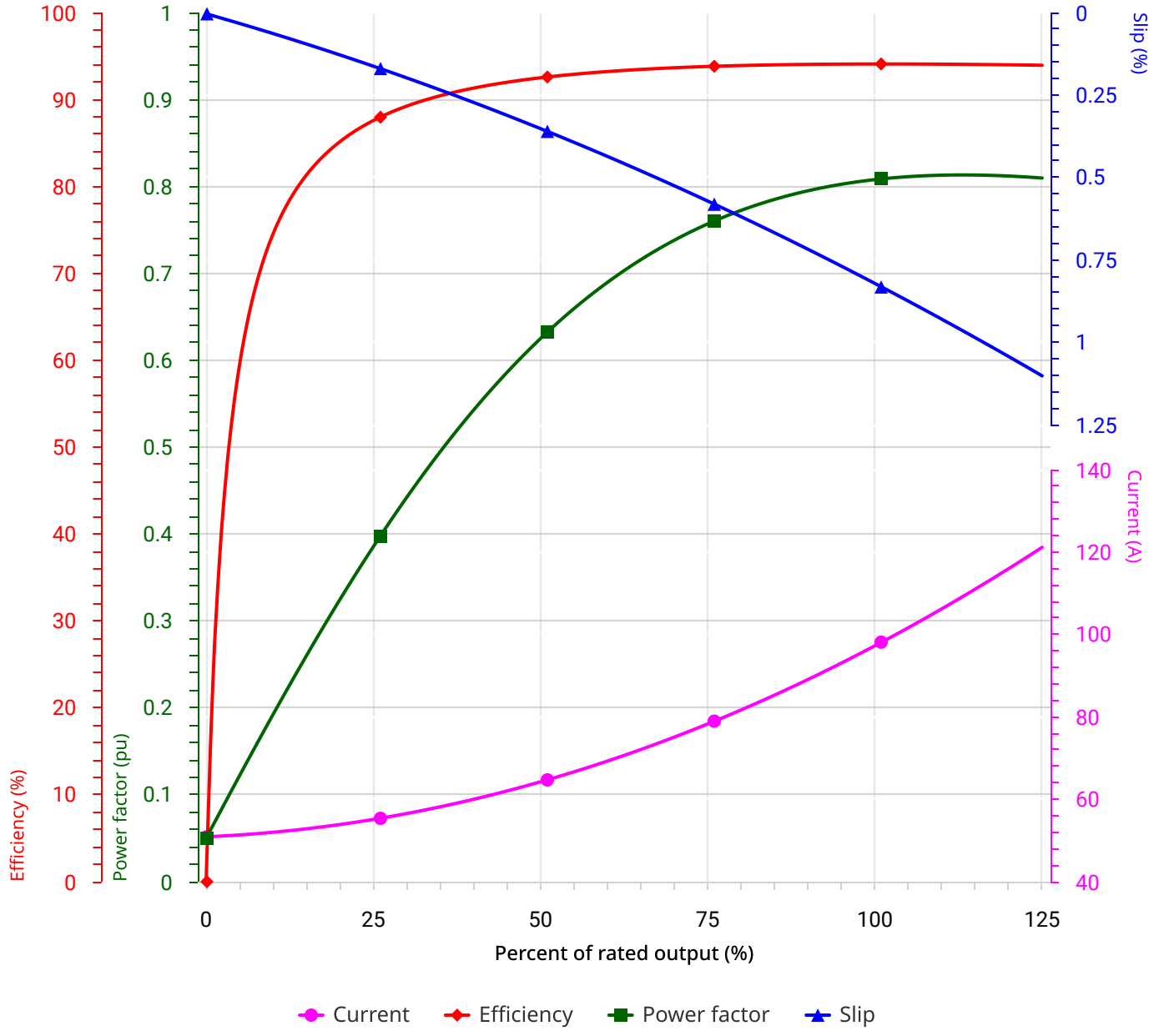
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 16572113



Performance	: 40 HP (30 kW) 230/208/460V 60Hz 4P 200L

Rated current	: 98.8/109/49.4 A	Moment of inertia (J)	: 0.3469 kgm²
LRC	: 9.2 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 16.3 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: N

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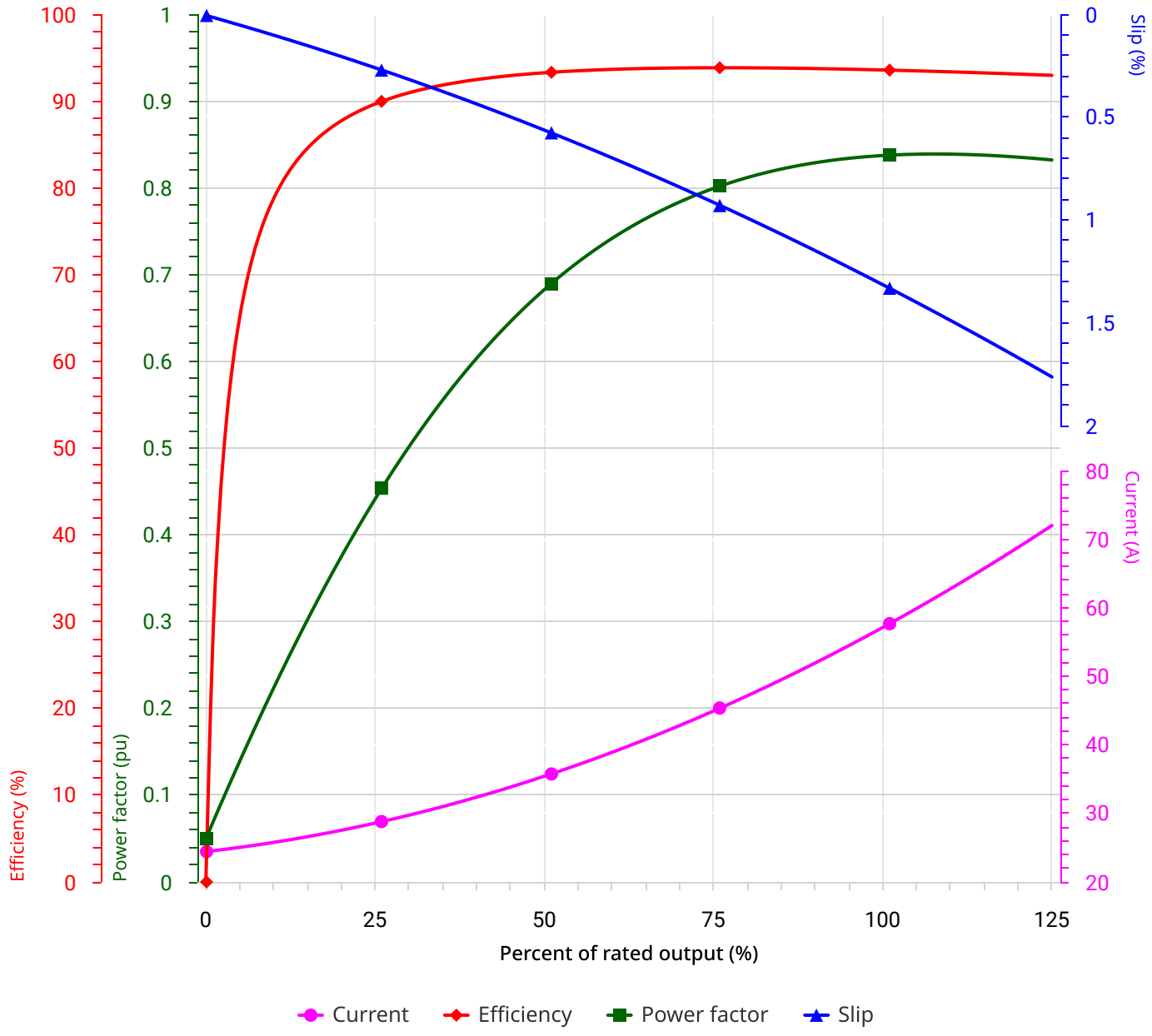
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 16572113



Performance	: 40 HP (30 kW) 380V 50Hz 4P 200L

Rated current	: 58.0 A	Moment of inertia (J)	: 0.3469 kgm²
LRC	: 7.3 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 19.6 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: N

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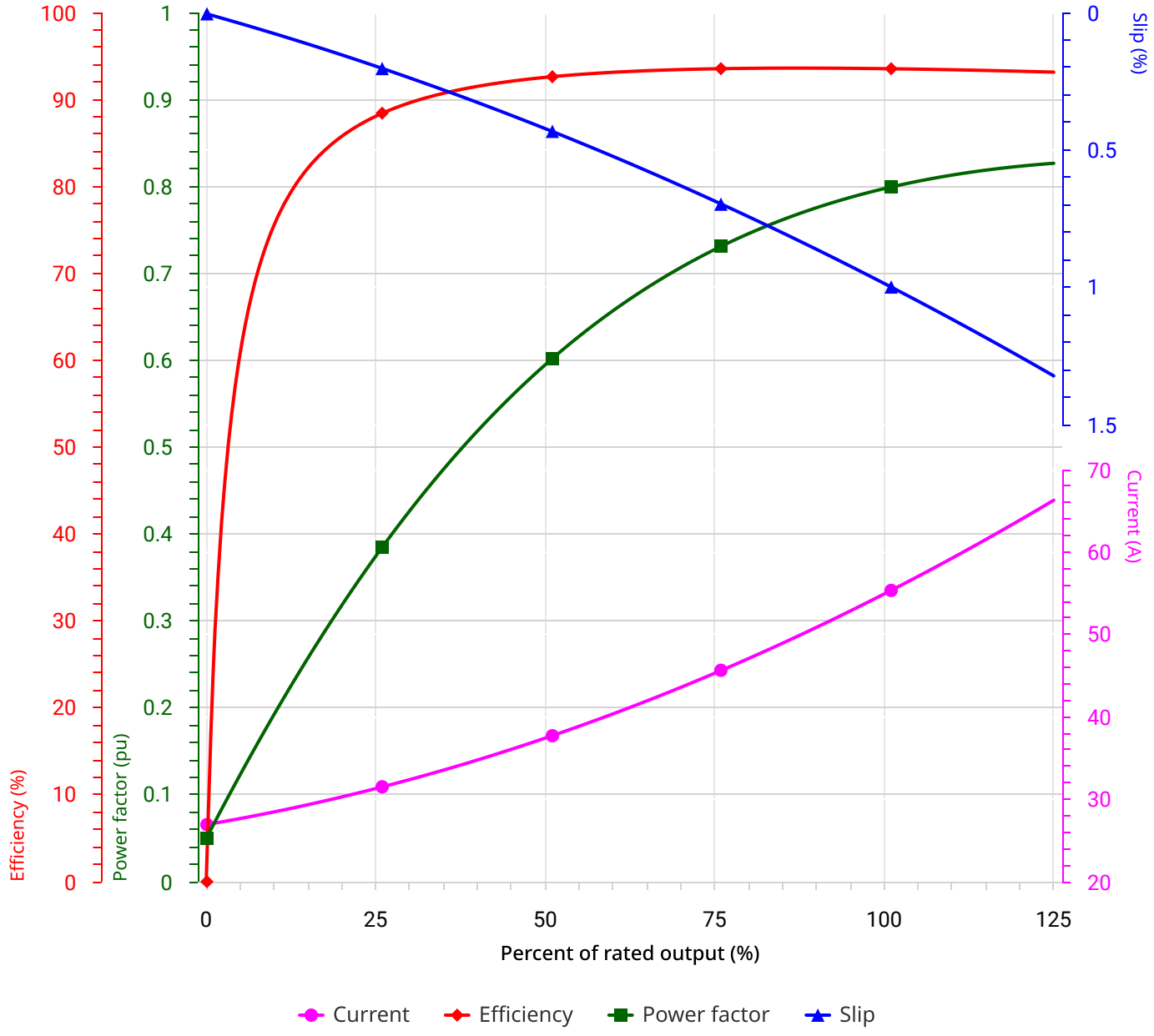
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 16572113



Performance	: 40 HP (30 kW) 415V 50Hz 4P 200L

Rated current	: 55.7 A	Moment of inertia (J)	: 0.3469 kgm²
LRC	: 8.2 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 19.5 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: N

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