DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Premium Efficiency (DOE) Jet Pump - Forma J Derating
Product code	: 13721750

Frame	: W56J	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6/V18R(D)
Duty cycle	: S1	Rotation	: Counter clockwise
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 7.9 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0008 kgm²
Design	: NONE		

Output		0.5 HP (0.37 kW)	0.5 HP (0.37 kW)	0.5 HP (0.37 kW)
Poles		2	2	2
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		208-230/460 V	190/380 V	400 V
Rated current		1.73-1.57/0.784 A	1.77/0.885 A	0.852 A
L. R. Amperes		12.1/6.04 A	10.3/5.13 A	5.45 A
LRC		7.7 Code L	5.8 Code H	6.4 Code J
No load current		0.834/0.417 A	0.816/0.408 A	0.440 A
Rated speed		3435 rpm	2780 rpm	2810 rpm
Slip		4.58 %	7.33 %	6.33 %
Rated torque		0.106 kgfm	0.131 kgfm	0.129 kgfm
Locked rotor torque		330 %	240 %	280 %
Breakdown torque		360 %	250 %	280 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		65 dB(A)	64 dB(A)	64 dB(A)
Locked rotor time		18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)	16 s (hot) 29 s (cold)
Efficiency (%)	50%	68.0	72.0	71.4
	75%	72.0	75.0	75.1
	100%	74.0	74.7	75.5
Power Factor	Start	0.77	0.81	0.81
	50%	0.64	0.70	0.66
	75%	0.75	0.81	0.78
	100%	0.8	0.85	0.83
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		0.00	0.00	0.00
P2 (0,5;1,0)		0.00	0.00	0.00
P3 (0,25;1,0)		0.00	0.00	0.00
P4 (0,9;0,5)		0.00	0.00	0.00
P5 (0,5;0,5)		0.00	0.00	0.00
P6 (0,5;0,25)		0.00	0.00	0.00
P7 (0,25;0,25)		0.00	0.00	0.00

	Drive end	Non drive end
Bearing type	6203-2RS	6202-2RS
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/09

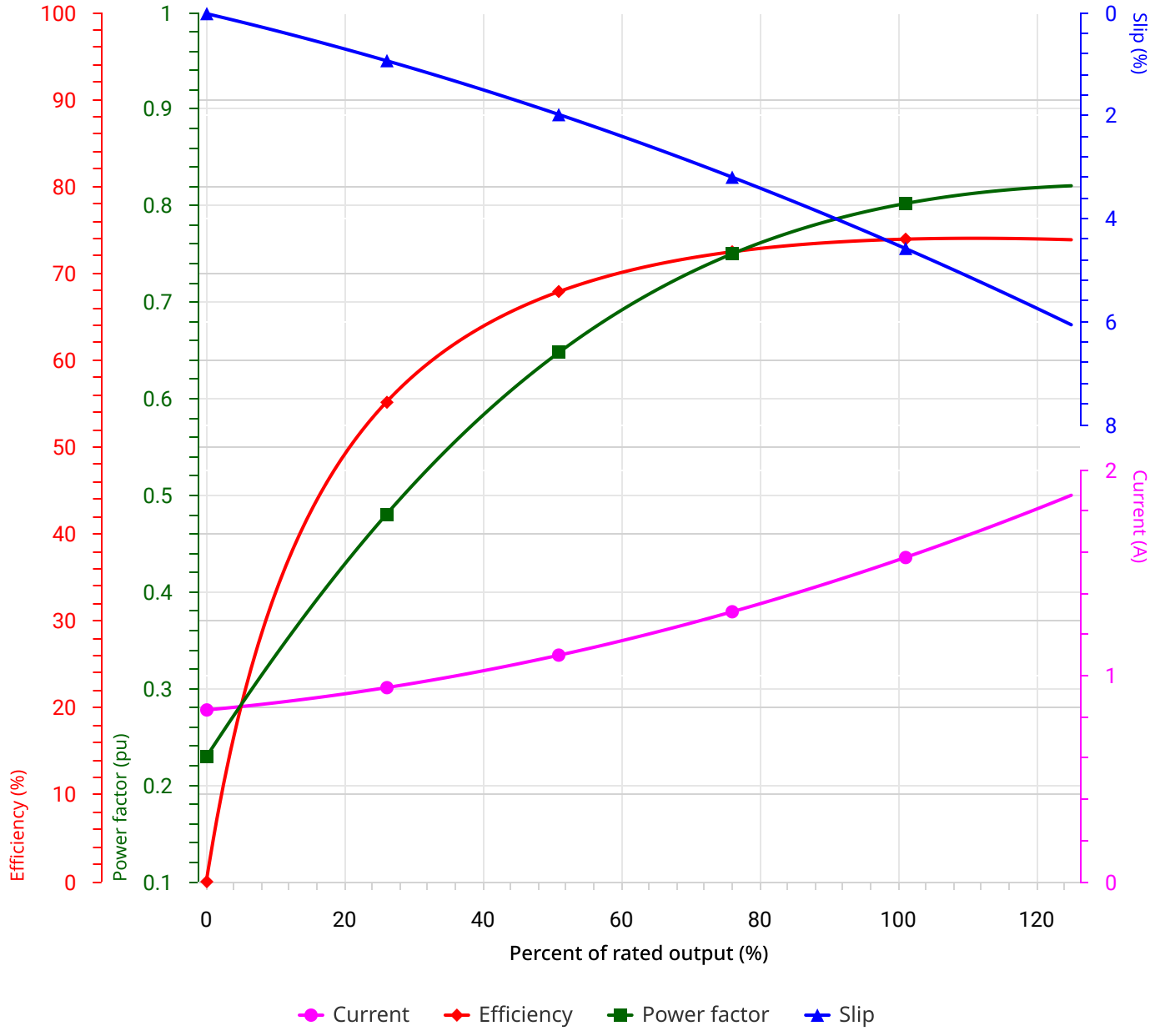
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LOAD PERFORMANCE CURVE

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Customer	:
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Product code	: 13721750



Performance	: 0.5 HP (0.37 kW) 208/230/460V 60Hz 2P W56J

Rated current	: 1.73/1.57/0.784 A	Moment of inertia (J)	: 0.0008 kgm²
LRC	: 7.7 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.106 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 3435 rpm		

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/09

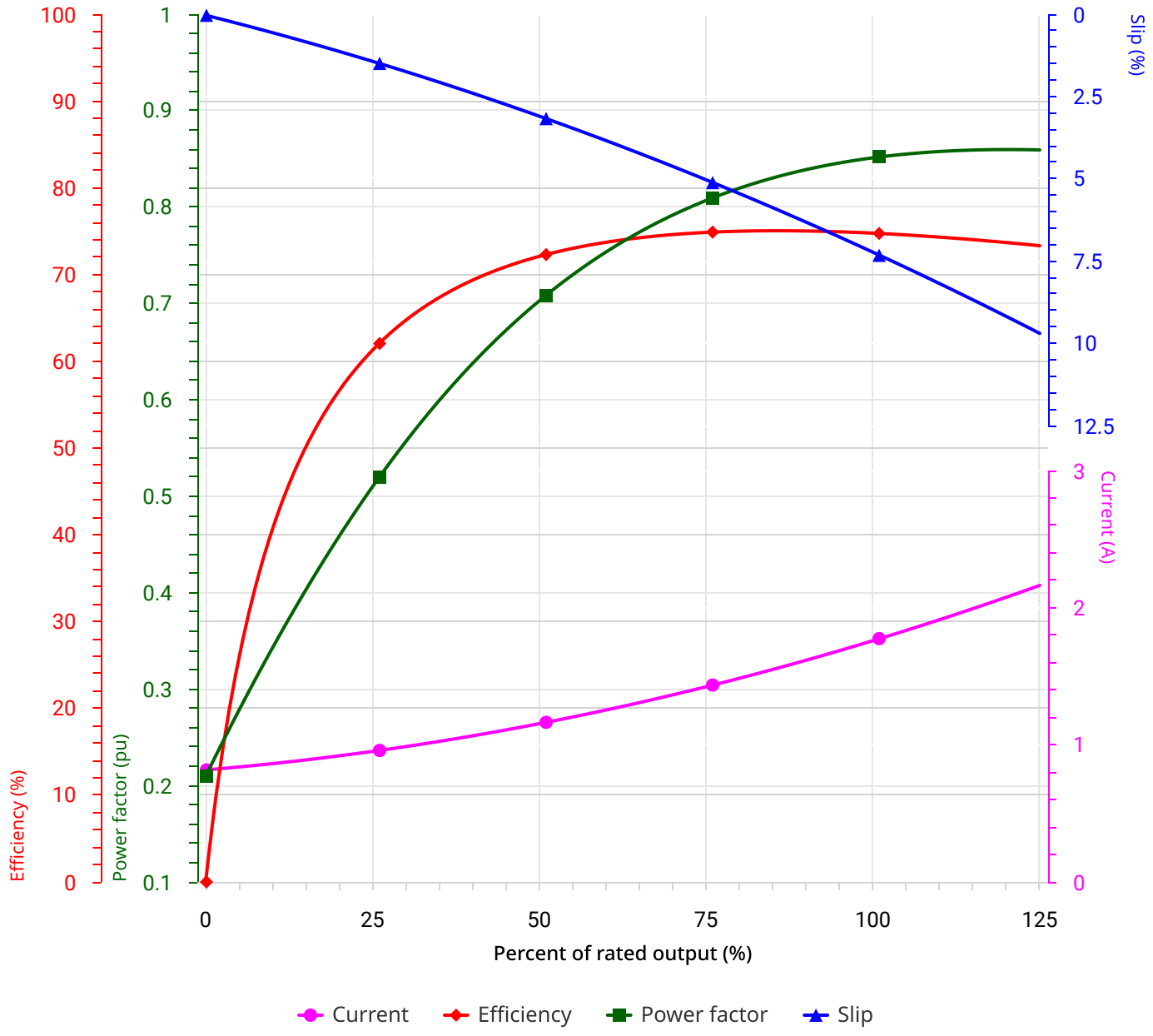
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Premium Efficiency (DOE) Jet Pump - Forma J Derating
Product code	: 13721750



Performance	: 0.5 HP (0.37 kW) 190/380V 50Hz 2P W56J

Rated current	: 1.77/0.885 A	Moment of inertia (J)	: 0.0008 kgm²
LRC	: 5.8 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 0.131 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2780 rpm		

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				2026/11/09

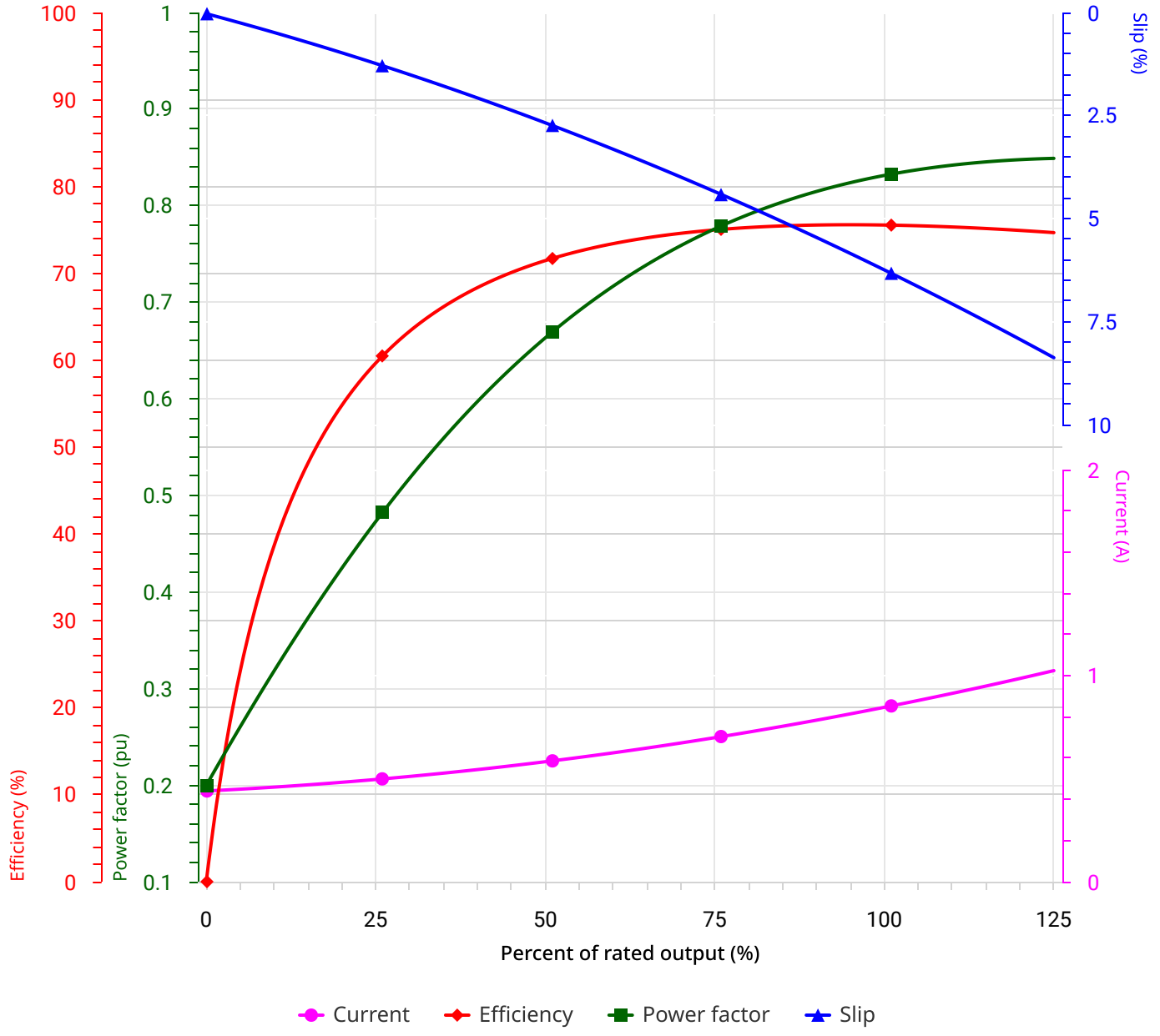
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 13721750



Performance	: 0.5 HP (0.37 kW) 400V 50Hz 2P W56J

Rated current	: 0.852 A	Moment of inertia (J)	: 0.0008 kgm²
LRC	: 6.4 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.129 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2810 rpm		

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