

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase Product code : 12744465

Frame	: 182/4TC	Cooling method	: IC411 - TEFC	
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	
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 44.3 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>	
Design	: B			
Output [HP]	1.5	1.5	1.5	1.5
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	5.08/2.54	2.68	2.62	2.64
L. R. Amperes [A]	39.6/19.8	16.9	18.1	19.5
LRC [A]	7.8x(Code M)	6.3x(Code J)	6.9x(Code K)	7.4x(Code L)
No load current [A]	3.25/1.63	1.60	1.71	1.80
Rated speed [RPM]	1170	955	960	965
Slip [%]	2.50	4.50	4.00	3.50
Rated torque [kgfm]	0.930	1.14	1.13	1.13
Locked rotor torque [%]	320	250	300	330
Breakdown torque [%]	400	290	330	370
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%			
	50%	84.0	85.5	84.5
	75%	86.5	86.5	85.5
	100%	87.5	85.5	86.5
Power Factor	25%			
	50%	0.45	0.52	0.48
	75%	0.54	0.63	0.60
	100%	0.62	0.73	0.70

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

Losses (%)	P1 (0,9;1,0)	13.4	13.4	13.4	13.4
	P2 (0,5;1,0)	10.3	10.3	10.3	10.3
	P3 (0,25;1,0)	9.3	9.3	9.3	9.3
	P4 (0,9;0,5)	8.8	8.8	8.8	8.8
	P5 (0,5;0,5)	5.8	5.8	5.8	5.8
	P6 (0,5;0,25)	4.8	4.8	4.8	4.8
	P7 (0,25;0,25)	3.5	3.5	3.5	3.5

Bearing type	Drive end : 6207 ZZ	Non drive end : 6206 ZZ	Foundation loads
Sealing	: V'Ring	: V'Ring	Max. traction : 65 kgf
Lubrication interval	: -	: -	Max. compression : 109 kgf
Lubricant amount	: -	: -	
Lubricant type	: 00088		

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Customer :

Notes

USABLE @208V 5.62A SF 1.15 SFA 6.46A

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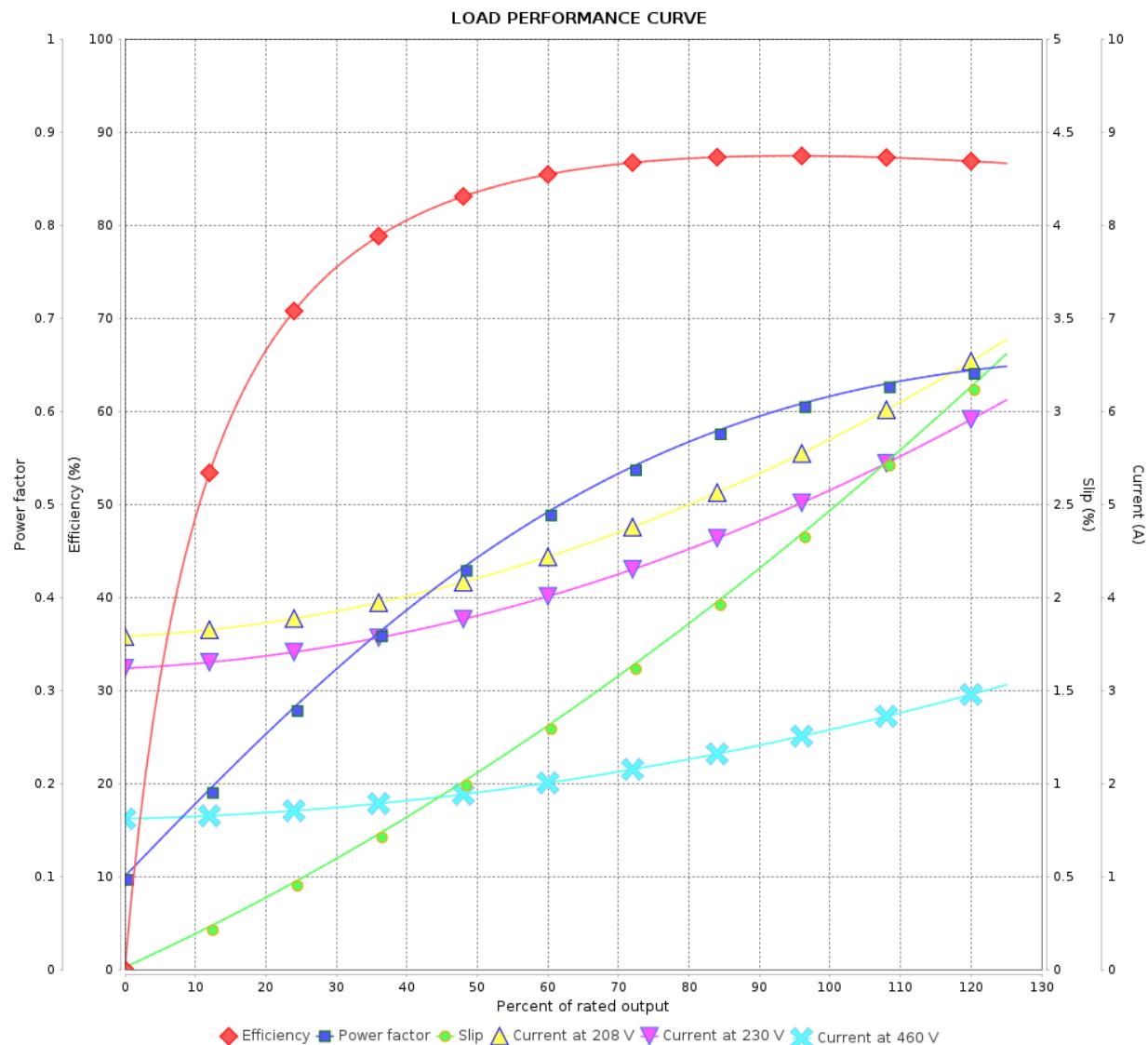
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase Product code : 12744465



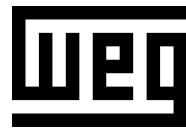
Performance : 230/460 V 60 Hz 6P

Rated current	: 5.08/2.54 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.930 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage



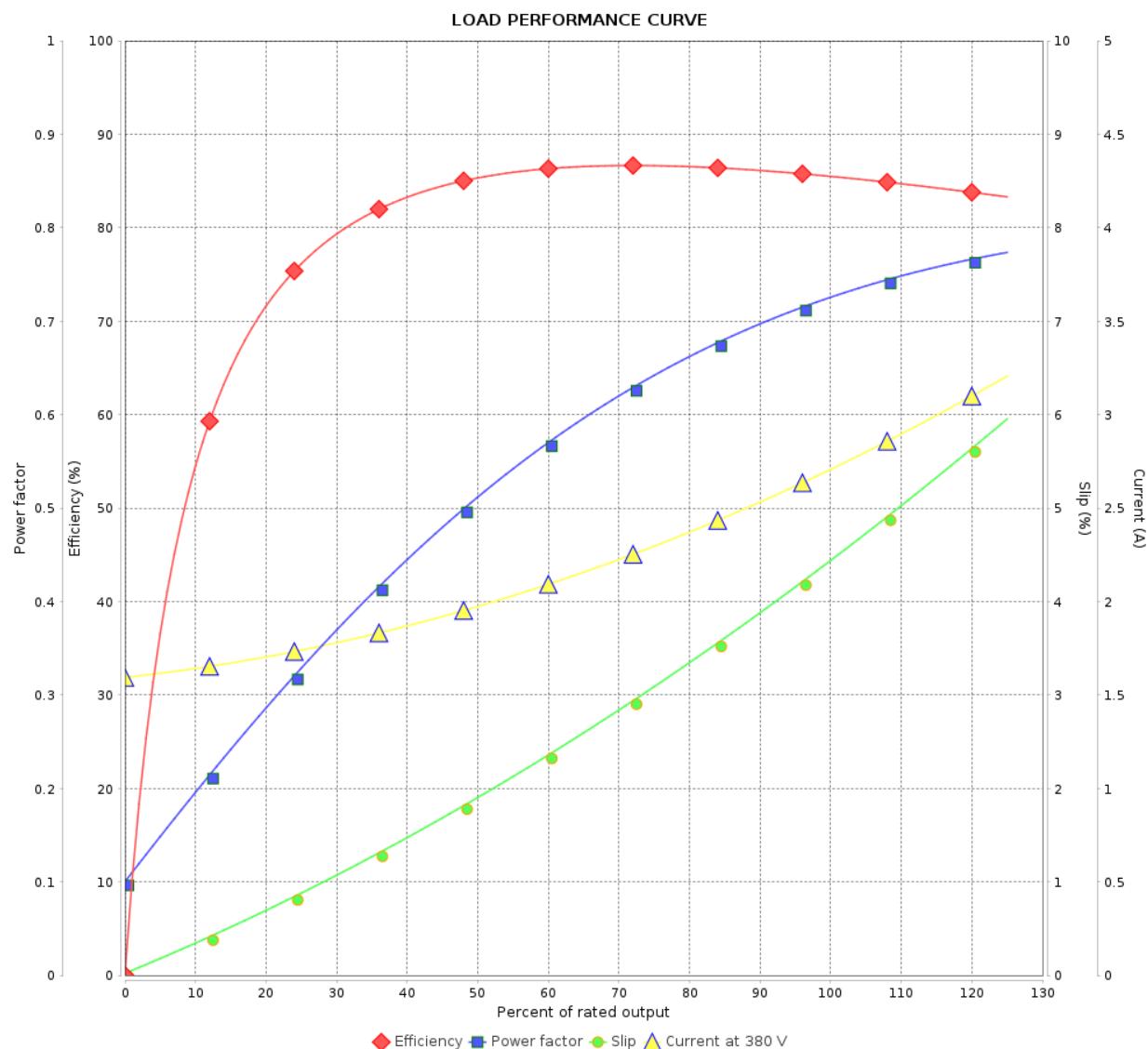
Customer :

Product line

: W22 NEMA Premium Efficiency  
Three-Phase

Product code :

12744465



Performance

: 380 V 50 Hz 6P IE4

Rated current

: 2.68 A

LRC

: 6.3

Rated torque

: 1.14 kgfm

Locked rotor torque

: 250 %

Breakdown torque

: 290 %

Rated speed

: 955 rpm

Moment of inertia (J)

: 0.0206 kgm<sup>2</sup>

Duty cycle

: Cont.(S1)

Insulation class

: F

Service factor

: 1.00

Temperature rise

: 80 K

Design

: B

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Three Phase Induction Motor - Squirrel Cage



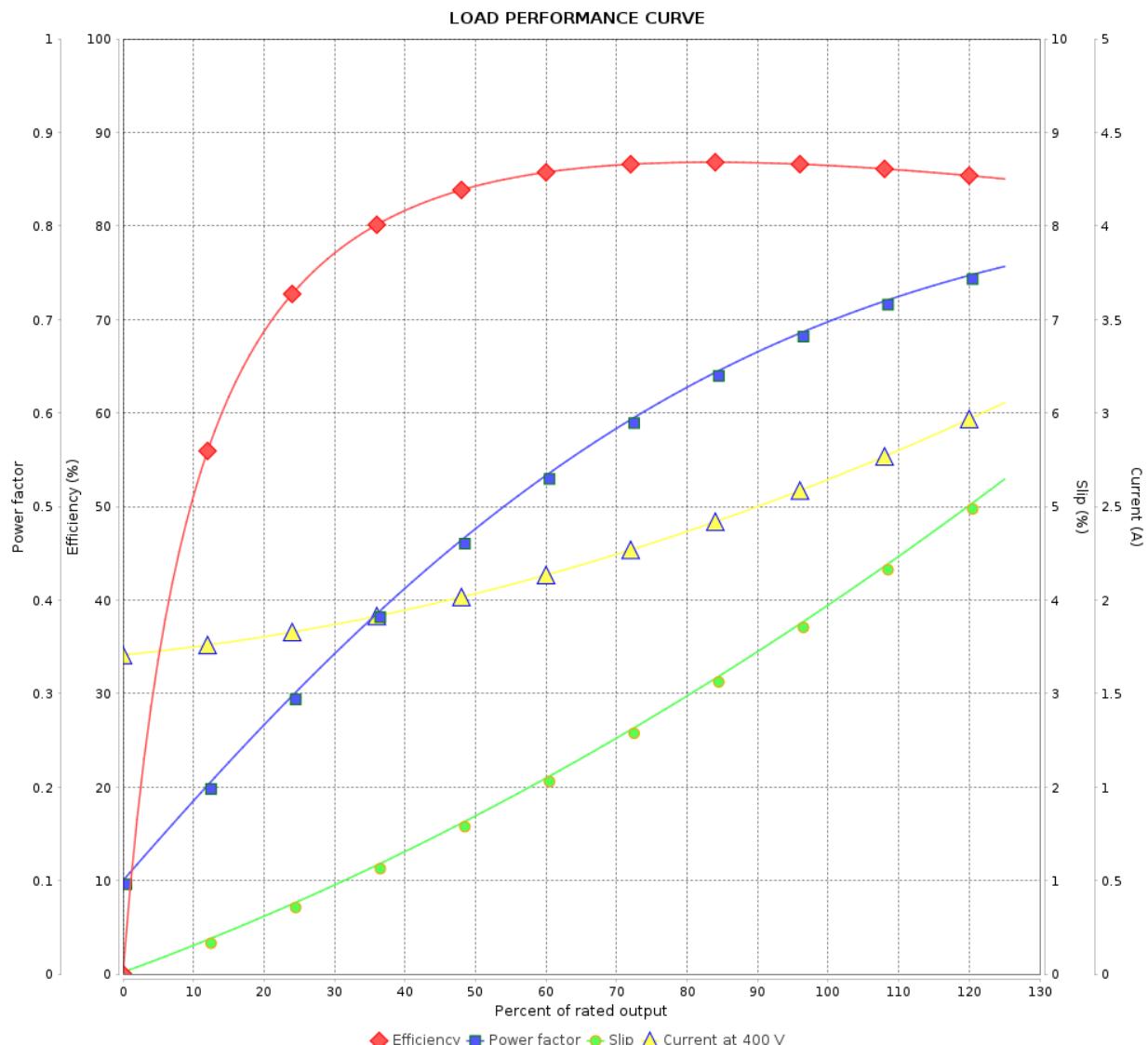
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Product line

: W22 NEMA Premium Efficiency  
Three-Phase

Product code :

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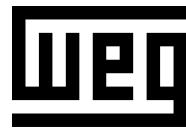


Performance : 400 V 50 Hz 6P IE4

Rated current	: 2.62 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 960 rpm	Design	: B

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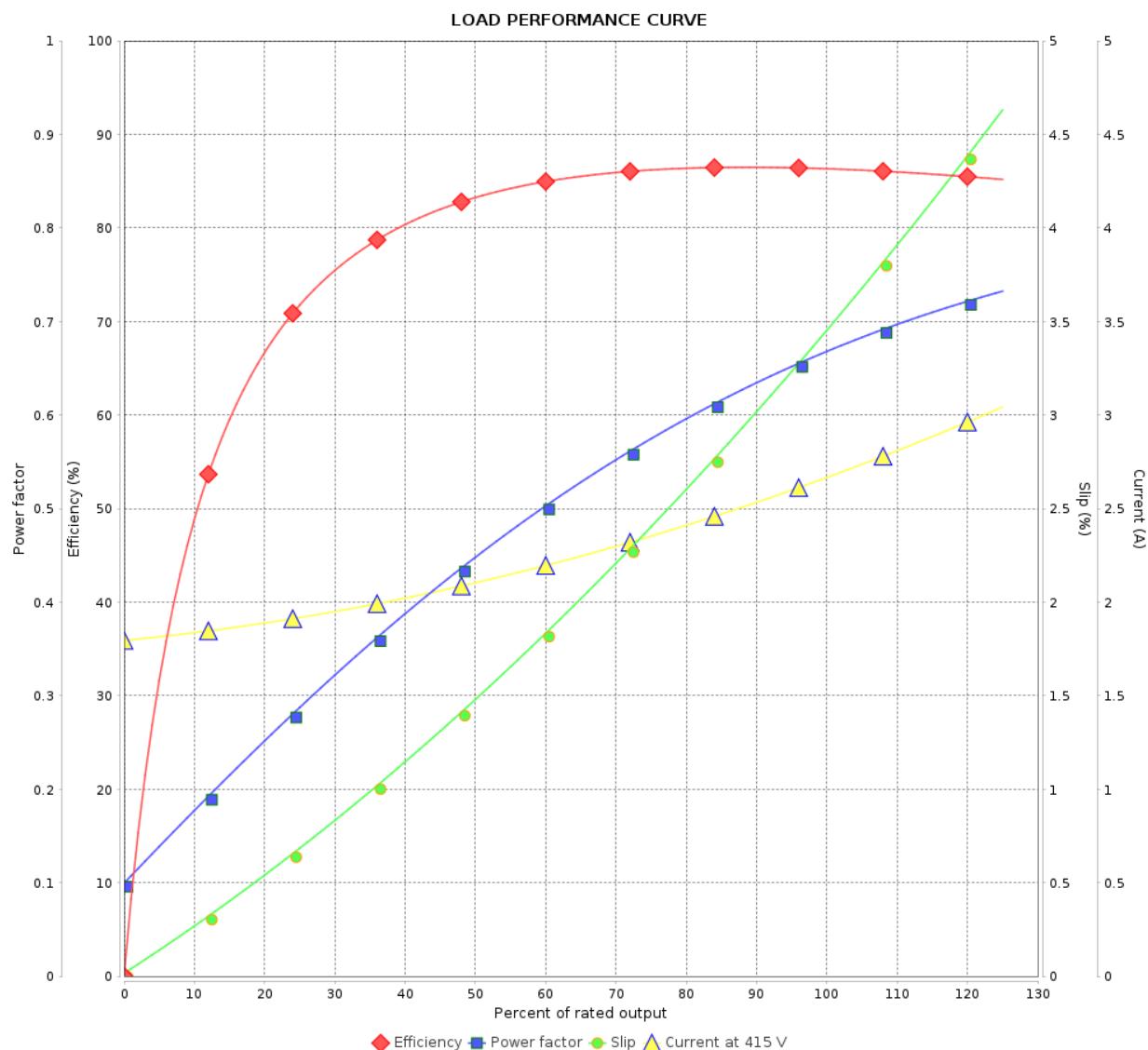
## LOAD PERFORMANCE CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12744465  
Three-Phase



Performance : 415 V 50 Hz 6P IE4

Rated current	: 2.64 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

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