DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase Product code : 11728462

Frame	: 112M	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 5.5 HP (4 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.82 A	Protection degree	: IP55
L. R. Amperes	: 46.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3L(E)
No load current	: 3.40 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level²	: 56.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 2.27 kgfm	Approx. weight³	: 40.0 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0182 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	87.5	89.5	89.5
Power Factor	0.58	0.70	0.77

Foundation loads

Max. traction : 147 kgf

Max. compression : 187 kgf

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
11.2	9.4	9.2	6.3	4.5	3.4	2.6

		Drive end	Non drive end
Bearing type	:	6307 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes

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.
(4) At 100% of full load.

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

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	25/10/2024		1 / 2	

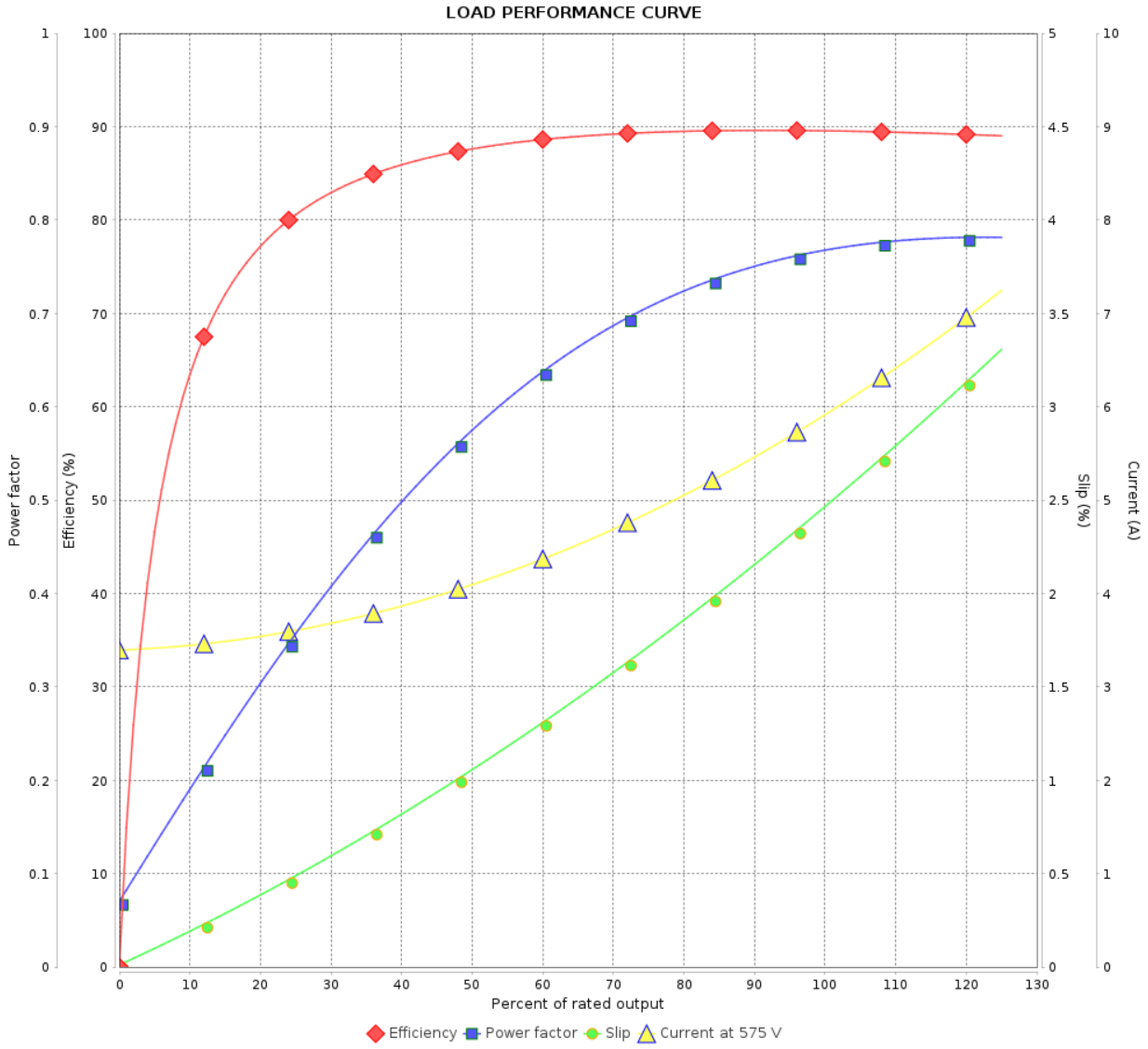
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase Product code : 11728462

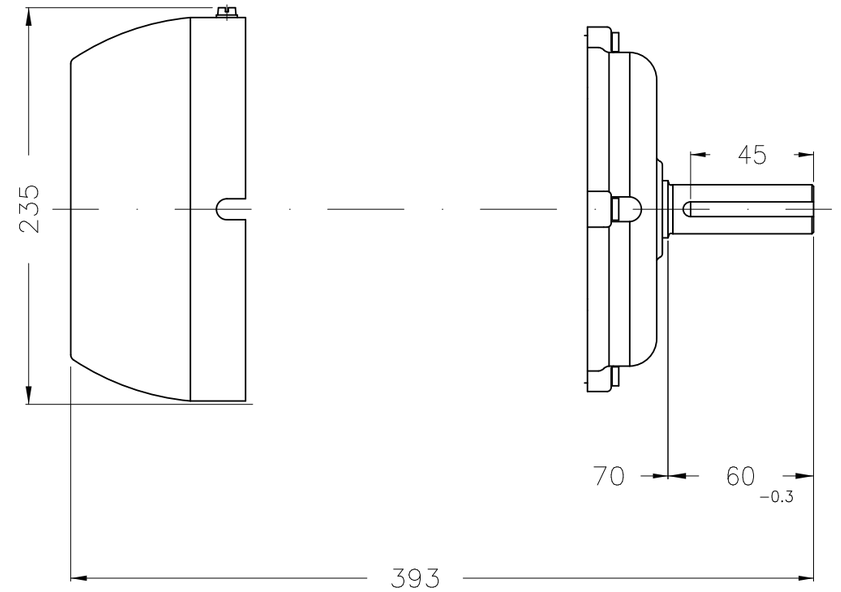


Performance	: 575 V 60 Hz 4P		
Rated current	: 5.82 A	Moment of inertia (J)	: 0.0182 kgm²
LRC	: 8.0	Duty cycle	: S1
Rated torque	: 2.27 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date

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Date	25/10/2024		2 / 2	

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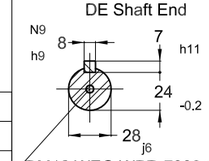


Color RAL 5009

Painting plan 207A

Mounting B3L(E)

DE Shaft End



DM10 WEG WPR-7339 (DS DIN332)

5.5 HP 04 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED DATAVIEWERUSER

CHECKED

RELEASED

REL DT.

THREE PH. MOTOR MULTIMOUNTIN IE3

FRAME 112M IP55 TEFC

PREVIEW

WDD

WMO Jaraguá do Sul Product Engineering

SHEET 1 / 1

Dimensions in mm

XME A3

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