DATA SHEET

Premium Efficiency Motor: **IEC12-36-71,** **60 Hz**

WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net

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MOTOR INFORMATION

HP	1/2
RPM	3600
Phase	3
Frequency	60
Voltage	230/460
Frame Size	71
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.15
Poles	2
Full Load Speed	3438
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	L
Duty Cycle	S1
Slip	4.49%
IEC Design	N
Moment of Inertia	0.0086 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	72 dB(A)
Number of Starts	2 Hot / 3 Cold
Max Ambient Temperature	40° C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	F3
Rotation	Bidirectional
Area of Classification	Safe
Inverter Rating	10:1 CT/20:1 VT
Standard	IEC 60034 and IEC 60072
Approvals	UL, CE

ADDITIONAL DATA

Multi-Mount	Yes
Shaft Material	AISI 1040/45
Connection Diagram	9 Lead Wye
Approximate Weight	6.5 kg

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	73.4 %	0.75
75%	76.0 %	0.66
50%	71.1 %	0.53

TORQUE

FULL LOAD	LRT	BDT
1.027 lb.ft.	480 %	582 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	1.59	0.80
Locked Rotor Amps	12.30	6.15
No Load Current	1.10	0.55

BEARING INFORMATION

DE Bearing	6202 ZZ
ODE Bearing	6202 ZZ
Grease Type	NS7

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MOTOR DRAWING

Premium Efficiency Motor: **IEC12-36-71**

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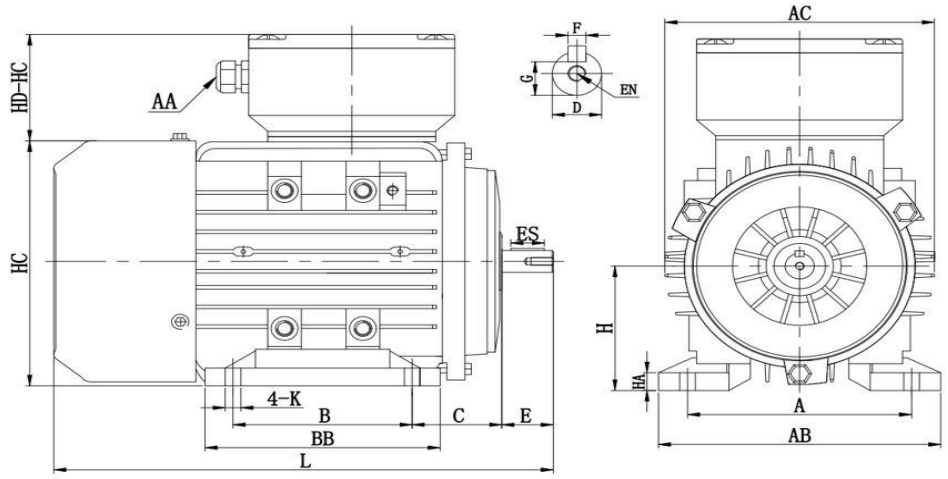

DIMENSION - METRIC (mm)

MOUNTING					L	H	HA	AC	HC	K
A	B	C	AB	BB						
112	90	45	142	112	251	71	9	138	140	7

SHAFT & KEY					
F	ES	G	E	D	EN
5	20	11	30	14	M5*12mm

TERMINAL BOX	
AA	HD-HC
M20	60

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PERFORMANCE CURVES

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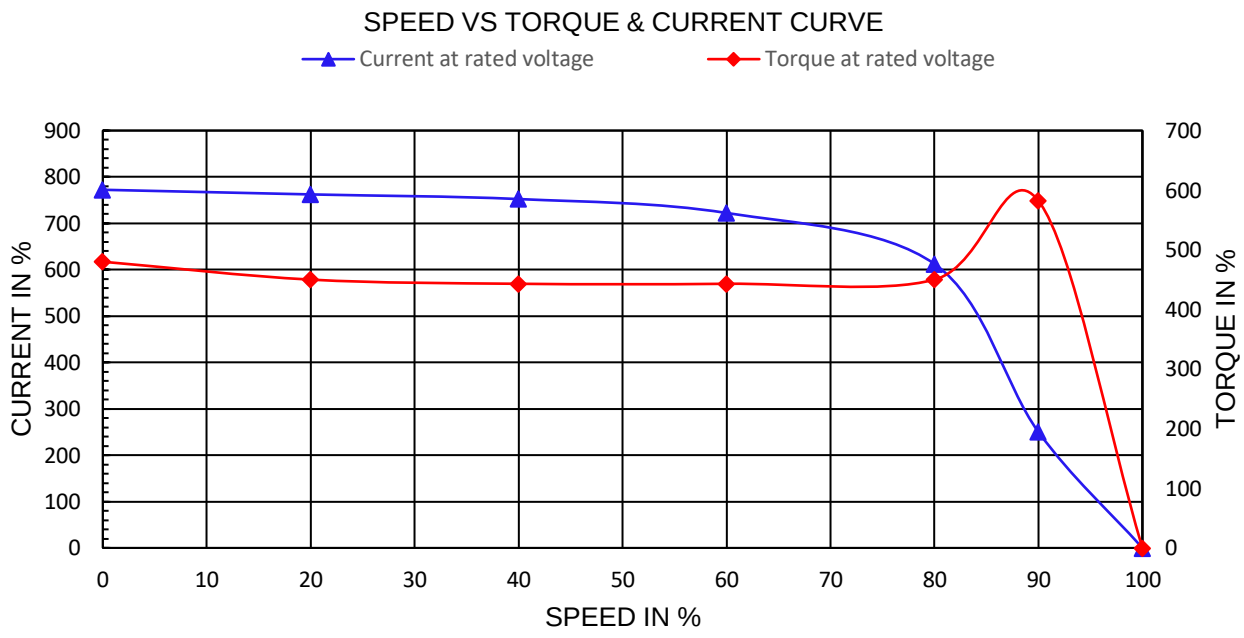
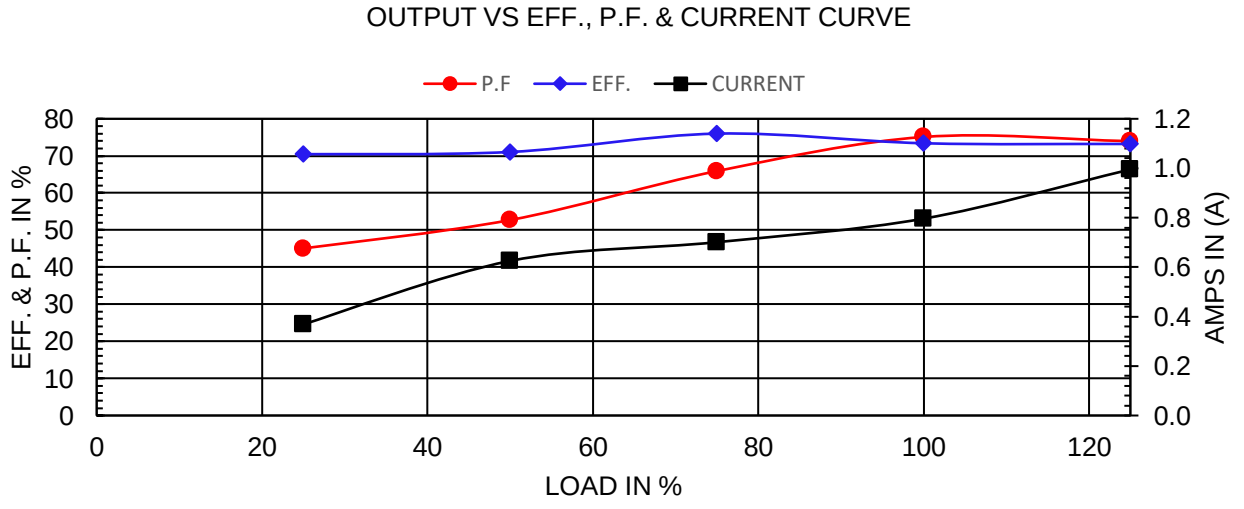
Motor Type							
Output Rating (HP)	1/2		FL Speed	3438			
Full Load Torque	1.027	lb.ft	LRT (%FLT)	480	460 volt FLA	0.80	
Rotor Wk^2	0.0086	lb-ft^2	BDT (%FLT)	582	230 volt FLA	1.59	





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NAMEPLATE / WIRING

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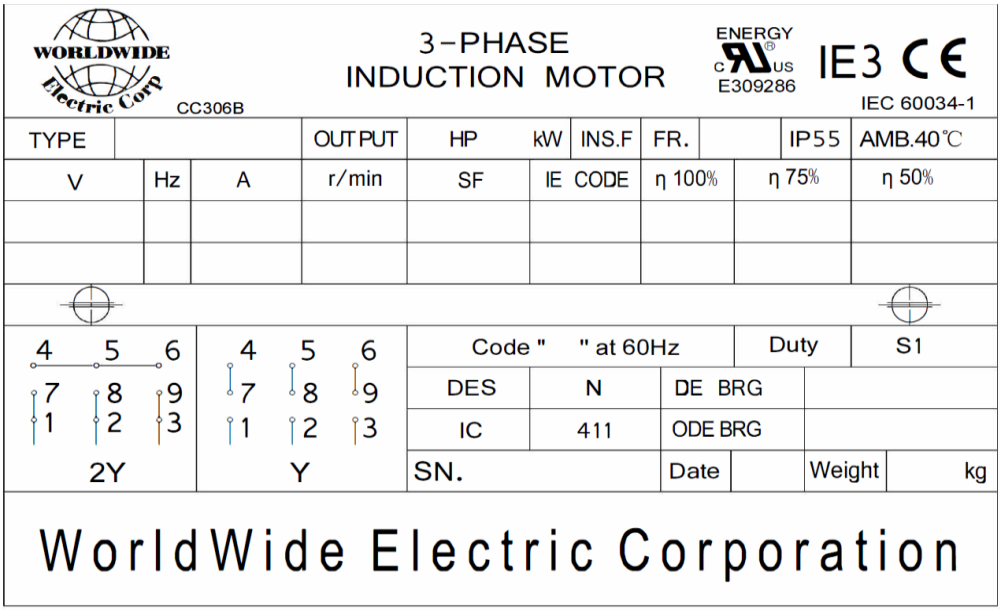
SAMPLE NAMEPLATE DATA



TYPE	IEC12-36-71		OUTPUT	HP	1/2	kW	0.37	FRAME	71
V	Hz	A	r/min.	SF	IE CODE	η100%	η75%	η50%	
190/380	50	1.80/0.90	2784	1.00	IE3	73.8	76.3	73.5	
230/460	60	1.59/0.80	3438	1.15	IE3	73.4	76.0	71.1	

Code"	L	"at 60Hz	DE BRG	6202 ZZ	Weight	6.5 kg
			ODE BRG	6202 ZZ		

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