

N° :

Date : 21 août 2022

**Induction motor**

4P LSES 63M 0.18kW IFT/IE2 B5 230D/380Y/400Y/415Y-460Y 50-60Hz -

**Utilisation :** Environment Common ; Ambiance Non corrosive ; Finition - ; Zone Non specific ; General applications ; Ambient temperature -16 +40 °C ; Maximum altitude 1000 m.

**Motor characteristics :** Aluminium alloy housing ; Aluminium alloy DE endshield ; Aluminium alloy NDE endshield.



**Motor definition**

Protection type	-	Application	General applications
Generation code	IFT	Main voltage (V)	400
Efficiency class	IE2	Connection	DY
Number of network phases	3	Motor winding (V)	230D/380Y/400Y/415Y-460Y
Number of speed		Rated Frequency (Hz)	50-60
Polarity	4P	Operation position	IM3001(IMB5)
Motor series	LSES	Index of protection	IP55
Frame size (mm)	63	Index of cooling	IC411
Length code	M	Insulation class	F
HS rated power (kW)	0.180	Finish	-
	-	Moment of inertia J (kg.m <sup>2</sup> )	0.0004800
Synchron speed (min-1)	1500	Motor weight (kg)	5.0
Maximum mechanical speed (min-1)		Ambient temperature range (°C)	-16 +40
		Regulation label	-

**Common definitions**

Paint shade	RAL6000
Paint system	C3L (1 x acrylic polyurethane finish (50µm +/- 20%))

**Motor mechanical interface**

Mounting flange	FF115	Shaft material type	Steel shaft
Drive end shaft type	IEC STANDARD shaft end	Nuance of shaft material	-
Diameter DE shaft (mm)	11j6	Second shaft extension	-
Length DE shaft (mm)	23	Diameter NDE shaft (mm)	-
DE bearing mounting	Locked	Second shaft end length (mm)	-
DE bearing type	DE ball bearing	NDE bearing type	NDE ball bearing
DE bearing	6202	NDE bearing	6201
Greasing type	Greased for life		

**Motor electrical interface**

Connection network type	Terminal box	Cable type	-
Connection network material	Composite materials	Cable gland material	Cable gland not supplied, holes tapped with polyamide plugs
Connection network position	A	Main cable gland type	1xM16 ; With plugs
Connection network orientation	up	Principal cable gland position	Right (1)
Connection network relative position	0		

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### Motor options

Vibration level	A	Cover	Plastic cover
Balancing type	Half-key (H)	Drip proof cover option	-
Impregnation type	< 95% ; (T)	cooling type	-
Winding thermal protection	-	Forced ventilation characteristics	-
Space heater	-	Encoder type	-
Draining plugs position	6H	Encoder characteristic	-
Nameplate material	Aluminium nameplate	Screw material	Steel screw
End-shield thermal protection	-	Adaptation for vibration sensor	-
Reinforced insulation system	-		

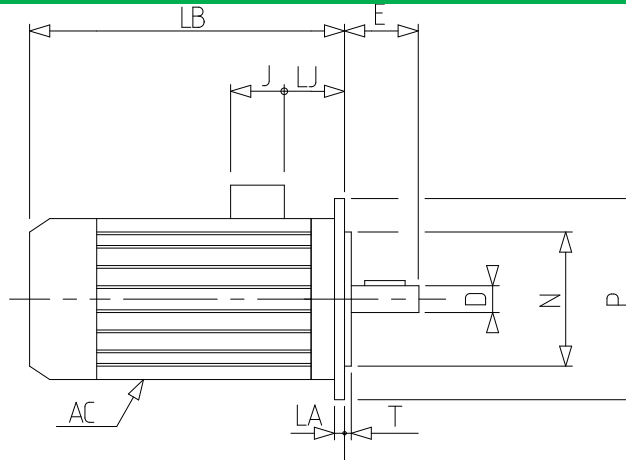
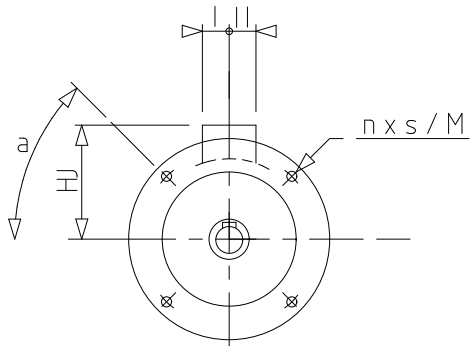
### Motor characteristics (on mains supply)

Main voltage (V)	Nominal frequency (Hz)	Rated speed (min-1)	Pn (kW)	Mn (N.m)	In (A)	I0 (A)	Mmax (N.m)	Maximum current (A)	Md (N.m)	Id (A)	Cos Phi à 4/4	Cos Phi à 3/4	Cos Phi à 2/4	η 4/4 (%)	η 3/4 (%)	η 2/4 (%)	LpA (dB(A))
230	50	1390	0.18	1.3	1.0	0.8	2.7		2.7	2.1	0.7	0.6	0.5	65	64	60	
380	50	1390	0.18	1.3	0.6	0.46	2.7		2.7	2.1	0.7	0.6	0.5	65	64	60	
400	50	1390	0.18	1.3	0.6	0.46	2.7		2.7	2.1	0.7	0.6	0.5	65	64	60	
415	50	1390	0.18	1.3	0.6	0.46	2.7		2.7	2.1	0.7	0.6	0.5	65	64	60	
460	60	1390	0.18	1.3	0.6	0.46	2.7		2.7	2.1	0.7	0.6	0.5	65	64	60	

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<b>a</b>	45
<b>AC</b>	124.00
<b>D</b>	11j6
<b>E</b>	23
<b>F</b>	4
<b>G</b>	8.5
<b>GD</b>	4
<b>HJ</b>	90.0
<b>I</b>	40
<b>II</b>	40
<b>J</b>	80
<b>L</b>	18
<b>LA</b>	10
<b>LB</b>	172.0
<b>LJ</b>	27.0
<b>LO</b>	4
<b>M</b>	115
<b>N</b>	95
<b>n</b>	4
<b>O</b>	M4
<b>P</b>	140
<b>p</b>	10
<b>S</b>	10
<b>T</b>	3

